

PRODUCT CATALOG

INDUSTRIAL PLUGS & RECEPTACLES

- SWITCH-RATED PLUGS & RECEPTACLES
- HAZARDOUS LOCATION PLUGS & RECEPTACLES
- CUSTOM POWER DISTRIBUTION PANELS
- HIGH AMPERAGE CONNECTORS
- MULTIPIN CONNECTORS



PRODUCT CATALOG

INDUSTRIAL PLUGS & RECEPTACLES



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• Switch-Rated Plugs & Receptacles

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MELTRIC Corporation

The best in industrial wiring devices



At MELTRIC Corporation, our only business is electrical plugs and receptacles. We are focused on providing our customers with the best overall value by offering the safest, highest quality and most reliable plugs and receptacles, and by backing them with outstanding service and support.

Product Technology & Safety

The technology behind MELTRIC's products was developed specifically to address the shortcomings and safety hazards common with pin & sleeve type plugs and receptacles. In 1952, following the observation of an accident with a pin and sleeve device, Gilles Marechal devised the concept of combining the advantages of silver-nickel butt contacts and the load making and breaking capabilities of a switch with the convenience of a plug and receptacle. Shortly thereafter, the first of these products was born. MELTRIC licensed this technology in the early 1980's and has been supplying its products to North American customers ever since.

Value

With their unique features and capabilities, MELTRIC products provide users with a safer and more reliable product than competitive pin and sleeve devices. MELTRIC's butt-style contacts provide longer operating lives, optional integral pilot contacts reduce the need for additional connectors and our switch-rated plugs and receptacles can eliminate the need for auxiliary interlocks and disconnect switches, helping users reduce equipment costs. These advantages, together with competitive pricing, short lead times, and 5-year warranty on electrical contacts, make MELTRIC's products the best overall value in the plug & receptacle/connector market.

Service & Support

MELTRIC backs its superior products with outstanding service and support. A network of over 150 sales associates and over 2000 distributor locations throughout the US, Canada and Mexico make access to our product easy.

MELTRIC's Customer Service group is trained to answer most questions on the spot and is located at our manufacturing facility in order to help streamline the order fulfillment process. Our engineering team stands ready to provide both application support and custom designed products incorporating MELTRIC and third party components into power distribution products tailored to meet your needs. Friendly and personal assistance is only a toll free call away at (800) 433-7642.

Many of MELTRIC's products are designed in a modular fashion, which permits cost effective stocking of components and quick final assembly of the product. Together with efficient order handling by Customer Service, this helps MELTRIC to provide the shortest lead times in the industry.

Quality

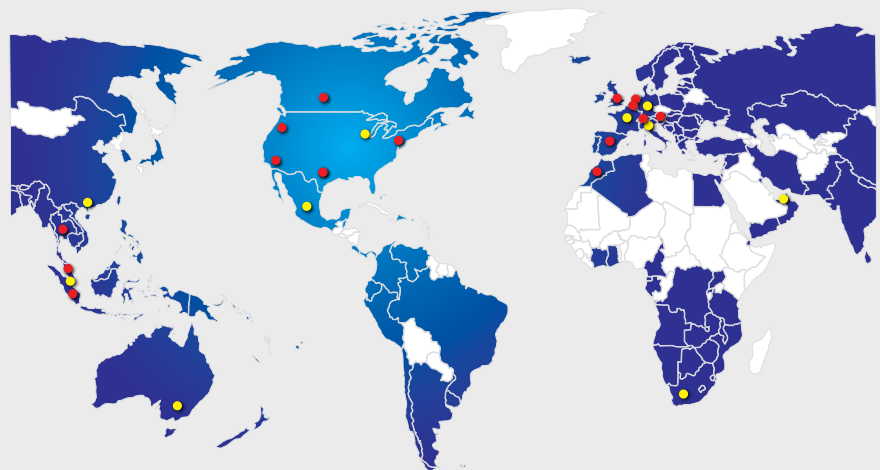
Quality is not just an inspection function at MELTRIC. Quality starts with intelligent designs, robust materials, clear procedures, process measurement and controls and effective communications. It is completed by the care, commitment and involvement of each of our employees.

MELTRIC is dedicated to the continuous improvement of all its critical production and support processes and is ISO 9001:2015 certified. MELTRIC designs and manufactures its products to exceed the requirements of applicable UL, CSA and IEC standards.



Worldwide Availability

Marechal Technology products are manufactured in North America, Europe, South Africa and Australia. MELTRIC supplies product directly from its factory in Franklin, Wisconsin to customers in the United States, Canada and Mexico. For customers outside of North America, product is provided through other Marechal Electric Group companies and sales agents.



- SALES OFFICES & MANUFACTURING PLANTS
- COMPANY SALES PRESENCE
- SALES AGENTS & DISTRIBUTORS



MELTRIC PRODUCT FEATURES...



Spring-Loaded Butt Contacts

MELTRIC products feature spring-loaded, butt contacts similar to those used in contactors and switchgear. These contacts have numerous advantages, which help improve electrical performance and user safety relative to pin and sleeve contacts or the arcuate contacts used in twist-type devices.

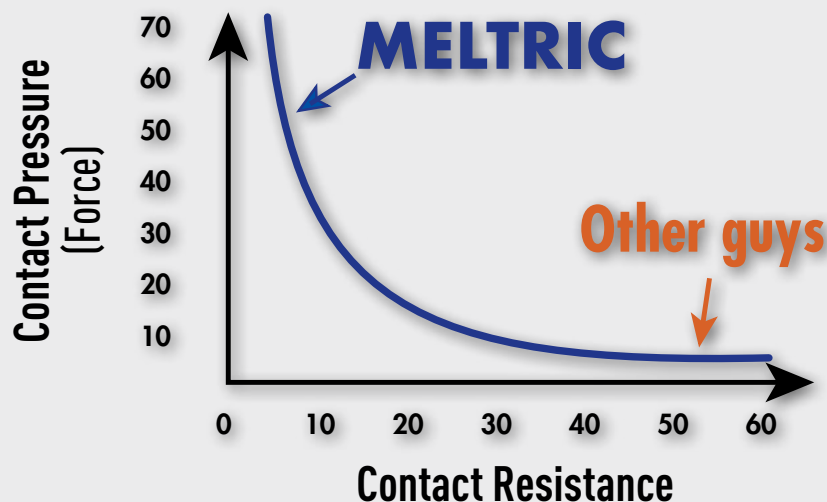
Butt-style contacts ensure a very positive and consistent connection. The spring-loading of these contacts, which is accomplished with coil springs, provides a desirably high contact force that remains constant over thousands of operations. In addition, it automatically compensates for any wear and/or deviations in contact length resulting from manufacturing tolerances.

This is a critical point, as contact force is a key determinant of the quality of a contact. As the accompanying chart demonstrates, contact resistance increases as contact force is reduced. Higher contact resistance generates more heat

and oxidation, both of which contribute to the deterioration of the contact. This is a problem with pin and sleeve and arcuate type contacts because their contact force varies with manufacturing tolerances and is reduced due to wear that occurs with normal use.

Most MELTRIC contacts close with a self-cleaning wiping action. When the contacts initially mate, they are slightly offset. In completing the connection, the plug contacts are rotated across the receptacle contacts, helping to remove deposits from the contact surfaces.

In conjunction with the ejection springs used on many MELTRIC products, the spring-loaded contacts ensure a quick breaking of the connection that is independent of the motion of the user. By contrast, the disconnection speed of pin and sleeve and twist-type devices is dependent upon the motion of the user.



...AND BENEFITS

Silver-Nickel Contact Material

MELTRIC uses solid silver-nickel (85%/15%) contacts. The silver-nickel material has significant advantages over the brass contacts commonly used on competitive devices.

Silver has very low initial contact resistance and is not negatively affected by oxidation. This helps to give it excellent electrical properties that are maintained even at high temperatures and after tarnishing. Nickel is a much harder material and contributes excellent mechanical properties. The combination of silver and nickel results in a contact material that has both superior electrical capabilities and excellent resistance to wear. Silver-nickel only welds at extremely high pressure and temperature, and thus, also withstands arcs very well. These features make silver-nickel a commonly used contact material by switchgear manufacturers.

By contrast, the brass material used in most competitive plug and receptacles has a much higher initial contact resistance and is negatively affected by oxidation. In an oxidized state, the contact resistance of brass is more than 20 times higher than that of silver-nickel. In addition, brass is a soft material that wears rapidly. In use, brass pin and sleeve and arcuate contacts suffer from the combined effects of the limitations of the material and the design. As oxidation and wear induced reductions in contact force occur, contact resistance increases. This increases operating temperature, which causes further oxidation and wear, perpetuating a vicious cycle of degradation. Brass is not arc resistant and is not suitable for making and breaking under load.

Dead Front Construction

Most MELTRIC products feature dead front construction, which greatly enhances safety by eliminating any unintended access to live parts. On most MELTRIC products, the dead front is accomplished with a safety shutter that can be opened only by an appropriate mating plug. The live receptacle contacts can only be accessed by the plug, after its insertion into the receptacle. The design of the product also ensures that the plug contacts are dead before the user can remove the plug from the receptacle.

By contrast, pin and sleeve and twist-type devices do not have a safety shutter. Access to live receptacle contacts is possible, and on some devices the plug contacts may be live and accessible when the plug is being removed.



MATERIAL	CONTACT	RESISTANCE
	NEW	OXIDIZED
SILVER	6 $\mu\Omega$	25 $\mu\Omega$
SILVER-NICKEL	23 $\mu\Omega$	60 $\mu\Omega$
COPPER	29 $\mu\Omega$	400 $\mu\Omega$
BRASS	370 $\mu\Omega$	1400 $\mu\Omega$



MELTRIC PRODUCT FEATURES...

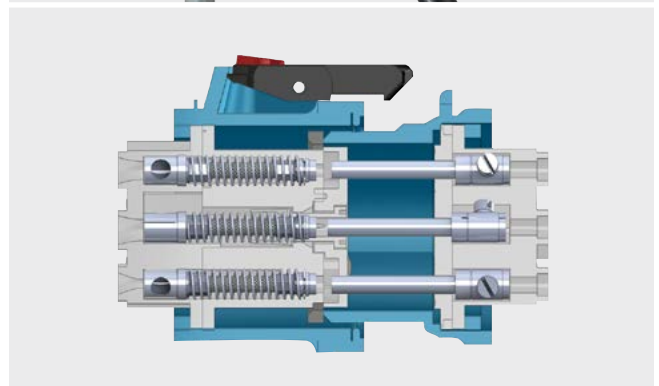
Push-Button Circuit Disconnection

To disconnect most MELTRIC products, the user simply needs to press the pawl. This causes the circuit to be disconnected and the plug to be ejected to its rest (off) position in the receptacle. If desired, the user can then remove the plug from the receptacle by rotating it slightly and then withdrawing it. This mode of operation ensures that it is only possible to remove the plug after its contacts have been de-energized.



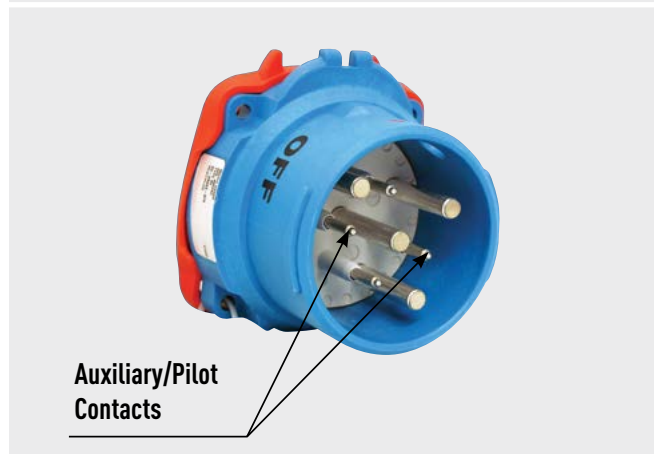
Enclosed Arc Chambers

The contacts on most MELTRIC products make and break within enclosed arc chambers. This ensures that the arcing which normally occurs during the making and breaking of the contacts is contained inside the device. This greatly enhances safety and avoids potential injury to users and/or harm to the outside environment.



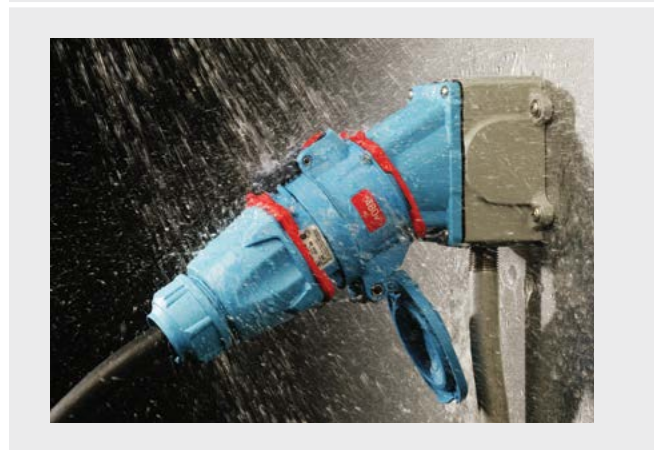
Optional Auxiliary/Pilot Contacts

Many MELTRIC products are available with optional auxiliary/pilot contacts. These integral pilot contacts allow users the convenience and flexibility of controlling auxiliary equipment, monitoring parameters (such as motor temperature), and/or communicating alarms through the same plug and receptacle used to supply power to the equipment. Because the pilot contacts are integral, they also facilitate the rapid change-out or reconfiguration of equipment by eliminating the need for hard wiring or multiple plug connections.



Automatic Watertightness

On most pin and sleeve devices, an additional plastic ring must be tightened in order to ensure the achievement of rated watertightness. Users frequently fail to do this, resulting in leakage. MELTRIC solves this problem with its DS and DSN Switch-Rated plugs and receptacles, which achieve their rated watertightness of up to Type 4X/IP69/IP69K simply by mating the plug with the receptacle. After the removal of the plug, rated watertightness is maintained for the receptacle by simply closing the lid.



...AND BENEFITS

Spring-Assisted Terminals

The loosening of terminal screws is a common cause for failure on standard plugs and receptacles. MELTRIC provides a more permanent and secure connection with its unique and patented spring-assisted terminal design.

As the terminal screw is tightened against the conductor, the associated pressure expands the split terminal body, causing a spring ring surrounding the terminal to deform into an elliptical shape. The natural tendency for the spring ring to return to its original size and shape ensures that a constant pressure is maintained on the conductor. This allows the terminal to effectively compensate for strand settlement and conductor yield, due to cold flow of the material, and provides superior resistance to vibration, shock and thermal cycling.

Lockout-Tagout Capability

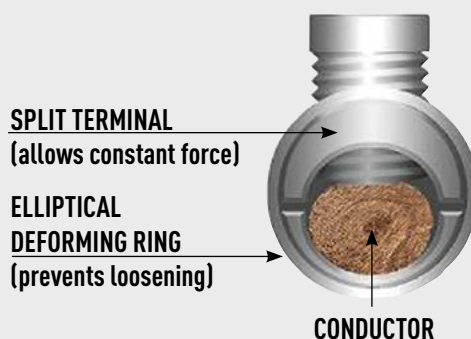
Most MELTRIC plugs and receptacles facilitate compliance with OSHA lockout-tagout requirements. Only a lock or lockout hasp and tag are needed to ensure that the plug is properly locked out and tagged out. Additional mechanisms are not required because the lockout provision is integral to the device – it is always available when you need it. On most models the lockout provision is a simple 5/16" hole in the plug shroud that facilitates the insertion of a typical padlock or lockout hasp which prevents the plug from being inserted into a receptacle.

An optional provision for locking out MELTRIC receptacles is also available. In most cases this is accomplished via a specially machined hole in the receptacle casing which allows insertion of a padlock to secure the receptacle lid in a closed position. This same optional provision can be used to prevent removal of the plug if desired.

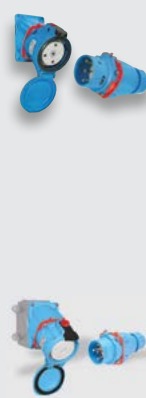
By comparison, in order to lockout most competitive pin and sleeve type plugs, an additional third-party 'lockout shield or 'plug cap' is required. These devices can be expensive and are often times lost, broken, or not available when you need them.

Modular Construction

Due to the robust construction of MELTRIC devices, the need to replace worn parts is rare. However, should they be required, parts are readily available and reasonably priced. The modular construction of most MELTRIC devices enables easy replacement of parts in the field.



MELTRIC PRODUCT SUMMARY...

	Model	Amp Rating	Maximum Voltage Rating		Environmental Ratings		Available Casing Materials			Maximum Number of Contacts	
			VAC	VDC	Type	IP	Poly	Metal	SS	Main	Aux.
Switch-Rated 	DSN20	20	600	-	4X	69/69K	Poly	-	-	3P+N+G	2**
	DSN30	30	600	-	4X	69/69K	Poly	-	-	3P+N+G	2
	DSN60	60	600	-	4X	69/69K	Poly	-	-	3P+N+G	4
	DSN150	150	600	-	4X	69/69K	Poly	Metal	-	3P+N+G	6
	DS20	20	600	-	3R+	-	Poly	-	-	3P+N+G	2
	DS30	30	600	-	3R+	-	Poly	-	-	3P+N+G	4
	DS60	60	600	-	3R+	-	Poly	Metal	-	3P+N+G	4
	DS100C	100	600	-	3R+	-	Poly	Metal	-	3P+N+G	4
	DS100	100	600	-	3R+	-	Poly	Metal	-	3P+N+G	6
	DS200	200	600	-	3R+	-	-	Metal	-	3P+N+G	6
Multipin 	PN7c	15	480	130	-	66/67*	Poly	Metal	SS	6P+G	-
	PN12c	2	600	130	-	66/67*	Poly	Metal	SS	11P+G	-
	PN12c	7.5	600	130	-	66/67*	Poly	Metal	SS	11P+G	-
	DSN24c	2	480	130	-	66/67	Poly	-	-	24	-
	DSN24c	7.5	480	130	-	66/67	Poly	-	-	24	-
	DS24c	2	250	130	-	54/55	-	-	SS	24	-
	DS24c	7.5	250	130	-	54/55	-	-	SS	24	-
	DSN37c	2	480	130	-	66/67	Poly	-	-	37	-
	DSN37c	7.5	480	130	-	66/67	Poly	-	-	37	-
	DS37c	2	480	130	-	54/55	-	-	SS	37	-
	DS37c	7.5	480	130	-	54/55	-	-	SS	37	-
	DN9c	20	480	130	-	54/55	-	Metal	-	9	-
	DN20c	20	480	130	-	54/55	-	Metal	-	20	-
	DS7c	30	600	130	-	54/55	Poly	Metal	-	7	3
	DR7c	50	600	130	-	54/55	Poly	Metal	-	7	3

* The indicated ratings do not apply to devices with SS casings.

+ Type 4X optional

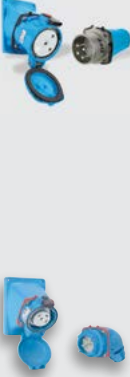
** DSN20 auxiliary contacts just provide a continuity loop thru the receptacle to indicate that a plug is connected.

...AND SELECTION GUIDE

Model	Current Interruption Rating*	Horsepower Ratings (see catalog section for other voltages)			Main Contacts Wire Size Capacity		Terminal Type
		240V - 3Ø	480V - 3Ø	600V - 3Ø	Min	Max	
DSN20	Switch-Rated	3 hp	7.5 hp	7.5 hp	14 AWG	12 AWG	Screw
DSN30	Switch-Rated	5 hp	10 hp	15 hp	14 AWG	8 AWG	Screw
DSN60	Switch-Rated	7.5 hp	20 hp	20 hp	12 AWG	4 AWG	Screw
DSN150	Switch-Rated	30 hp	75 hp	75 hp	4 AWG	2/0 AWG	Screw
DS20	Switch-Rated	5 hp	7.5 hp	10 hp	14 AWG	8 AWG	Screw
DS30	Switch-Rated	5 hp	15 hp	15 hp	12 AWG	4 AWG	Screw
DS60	Switch-Rated	10 hp	25 hp	25 hp	10 AWG	2 AWG	Screw
DS100C	Switch-Rated	20 hp	50 hp	50 hp	10 AWG	2 AWG	Screw
DS100	Switch-Rated	10 hp	30 hp	-	4 AWG	2/0 AWG	Screw
DS200	Switch-Rated	40 hp	100 hp	100 hp	4 AWG	4/0 AWG	Screw
PN7c	Current Interrupting	-	-	-	18 AWG	10 AWG	Screw
PN12c	Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
PN12c	Non-Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DSN24c	Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DSN24c	Non-Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DS24c	Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DS24c	Non-Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DSN37c	Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DSN37c	Non-Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DS37c	Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DS37c	Non-Current Interrupting	-	-	-	18 AWG	14 AWG	Solder/Crimp
DN9c	Current Interrupting	3 hp	5 hp	-	16 AWG	10 AWG	Screw
DN20c	Current Interrupting	1 hp	3 hp	-	16 AWG	10 AWG	Screw
DS7c	Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DR7c	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw

* 'Switch-Rated' and 'Current Interrupting' ratings apply to alternating current only.

MELTRIC PRODUCT SUMMARY...

	Model	Amp Rating	Maximum Voltage Rating		Environmental Ratings		Available Casing Materials			Maximum Number of Contacts	
			VAC	VDC	Type	IP	Poly	Metal	SS	Main	Aux.
Standard 	DR30	30	600	-	3R ⁺	-	Poly	-	-	3P+N+G	2
	DR50	50	600	-	3R ⁺	-	Poly	-	-	3P+N+G	4
	DR100	100	600	-	3R ⁺	-	Poly	Metal	-	3P+N+G	4
	DR150	150	600	-	3R ⁺	-	Poly	Metal	-	3P+N+G	6
	DR250	250	600	-	3R ⁺	-	-	Metal	-	3P+N+G	6
	DR400	400	480**	-	-	54/55 [±]	-	Metal	-	3P+G	2
	PN20	20	480*	-	-	55 [±]	Poly	Metal	SS	3P+N+G	-
Direct Current 	DSDC1	20	-	250	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC1	15	-	600	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC1	10	-	750	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC3	30	-	250	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC3	30	-	600	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC3	20	-	750	3R ⁺	-	Poly	-	-	2P+G	-
	DSDC6	60	-	250	3R ⁺	-	Poly	Metal	-	2P+G	-
	DSDC6	50	-	600	3R ⁺	-	Poly	Metal	-	2P+G	-
	DSDC6	30	-	750	3R ⁺	-	Poly	Metal	-	2P+G	-
	DSDC9	100	-	250	3R ⁺	-	Poly	Metal	-	2P+G	-
	DSDC9	60	-	600	4X	-	Poly	-	-	2P+G	-
	DSDC2	200	-	250	3R	-	-	Metal	-	2P+G	-
	DSDC2	100	-	600	3R	-	-	Metal	-	2P+G	-
High Ampacity 	PFQ300	300	600	250	-	66/67	-	Metal	-	3P+N+G	8
	PF300	300	600	250	-	66/67	-	Metal	-	3P+N+G	4
	PF400	400	600	250	-	66/67	-	Metal	-	3P+N+G	4
	PF600	600	600	250	-	66/67	-	Metal	-	3P+N+G	4
	SP	600	1000	1500	-	66/67	Poly	-	-	1P	2++
	CS1000	400	1000	1500	-	66/67	Poly	-	-	1P	-

* 600 VAC available at 15 A and less

** 600 VAC available at 350 A and less

+ Type 4X optional

± IP66/IP67 optional

++ SP auxiliary contacts just provide a continuity loop thru the receptacle to indicate that a plug is connected.

...AND SELECTION GUIDE

Model	Current Interruption Rating*	Horsepower Ratings (see catalog section for other voltages)			Main Contacts Wire Size Capacity		Terminal Type
		240V - 3Ø	480V - 3Ø	600V - 3Ø	Min	Max	
DR30	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DR50	Non-Current Interrupting	-	-	-	12 AWG	4 AWG	Screw
DR100	Non-Current Interrupting	-	-	-	10 AWG	2 AWG	Screw
DR150	Non-Current Interrupting	-	-	-	4 AWG	2/0 AWG	Screw
DR250	Non-Current Interrupting	-	-	-	4 AWG	4/0 AWG	Screw
DR400	Non-Current Interrupting	-	-	-	2 AWG	500 MCM	Screw
PN20	Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
PNHT	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DSDC1	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DSDC1	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DSDC1	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DSDC3	Non-Current Interrupting	-	-	-	12 AWG	4 AWG	Screw
DSDC3	Non-Current Interrupting	-	-	-	12 AWG	4 AWG	Screw
DSDC3	Non-Current Interrupting	-	-	-	12 AWG	4 AWG	Screw
DSDC6	Non-Current Interrupting	-	-	-	10 AWG	2 AWG	Screw
DSDC6	Non-Current Interrupting	-	-	-	10 AWG	2 AWG	Screw
DSDC6	Non-Current Interrupting	-	-	-	10 AWG	2 AWG	Screw
DSDC9	Non-Current Interrupting	-	-	-	4 AWG	2/0 AWG	Screw
DSDC9	Non-Current Interrupting	-	-	-	4 AWG	2/0 AWG	Screw
DSDC2	Non-Current Interrupting	-	-	-	4 AWG	4/0 AWG	Screw
DSDC2	Non-Current Interrupting	-	-	-	4 AWG	4/0 AWG	Screw
PFQ	Non-Current Interrupting	-	-	-	2 AWG	600 MCM	Lug
PF300	Non-Current Interrupting	-	-	-	2 AWG	600 MCM	Lug
PF400	Non-Current Interrupting	-	-	-	2 AWG	600 MCM	Lug
PF600	Non-Current Interrupting	-	-	-	2 AWG	600 MCM	Lug
SP	Non-Current Interrupting	-	500 hp	500 hp	2/0 AWG	777 MCM	Lug
CS1000	Non-Current Interrupting	-	-	-	1/0 AWG	444 MCM	Lug

MELTRIC PRODUCT SUMMARY...

Hazardous Location



Model	Amp Rating	Maximum Voltage Rating		Environmental Ratings		Available Casing Materials			Maximum Number of Contacts	
		VAC	VDC	Type	IP	Poly	Metal	SS	Main	Aux.
DXN20	20	600	-	-	66/67	Poly	-	-	3P+N+G	-
DXN30	30	600	-	-	66/67	Poly	-	-	3P+N+G	2
DXN60	60	600	-	-	66/67	Poly	-	-	3P+N+G	2
DXA1	20	600	-	-	66/67	-	Metal	-	3P+N+G	-
DS20	20	600	-	4X	-	Poly	-	-	3P+N+G	2
DS30	30	600	-	4X	-	Poly	-	-	3P+N+G	4
DS60	60	600	-	4X	-	-	Metal	-	3P+N+G	4
DS100C	100	600	-	4X	-	Poly	Metal	-	3P+N+G	4
DSN150	150	600	-	4X	-	-	Metal	-	3P+N+G	6
DS200	200	600	-	4X	-	-	Metal	-	3P+G	6
DR30	30	600	-	4X	-	Poly	-	-	3P+N+G	2
DR50	50	600	-	4X	-	Poly	-	-	3P+N+G	4
DR250	250	600	-	4X	-	-	Metal	-	3P+G	6
DSDC1	20	-	250	4X	-	Poly	-	-	2P+G	-
DSDC3	30	-	250	4X	-	Poly	-	-	2P+G	-
DSDC6	60	-	250	4X	-	Poly	Metal	-	2P+G	-
DSDC9	100	-	250	4X	-	-	Metal	-	2P+G	-
DSDC2	200	-	250	4X	-	-	Metal	-	2P+G	-
DX1	20	750	-	-	65	-	Metal	-	3P+N+G	-
DX3	32	750	-	-	65	-	Metal	-	3P+N+G	-
DX6	63	750	-	-	65/66	-	Metal	-	3P+N+G	-
DX9	125	750	-	-	65/66	-	Metal	-	3P+N+G	-
PXN12c	10	220	-	-	65/66	-	Metal	-	11P+G	-
DXN25c	10	440	-	-	66/67	-	Metal	-	24P+G	-
DXN37c	10	220	-	-	66/67	-	Metal	-	36P+G	-
SPeX	680	1000	-	-	65/66	Poly	-	-	1P	2*

* SPeX auxiliary contacts just provide a continuity loop thru the receptacle to indicate that a plug is connected.

...AND SELECTION GUIDE

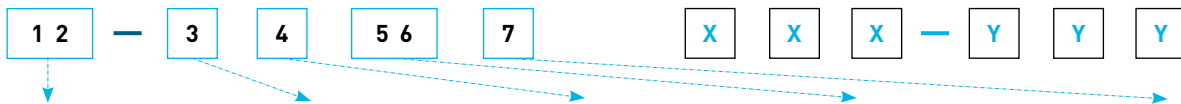
Model	Current Interruption Rating	Horsepower Ratings (see catalog section for other voltages)			Main Contacts Wire Size Capacity		Terminal Type
		240V - 3Ø	480V - 3Ø	600V - 3Ø	Min	Max	
DXN20	Current Interrupting	2 hp	5 hp	5 hp	16 AWG	10 AWG	Screw
DXN30	Current Interrupting	5 hp	10 hp	15 hp	14 AWG	6 AWG	Screw
DXN60	Current Interrupting	7.5 hp	20 hp	20 hp	10 AWG	4 AWG	Screw
DXA1	Current Interrupting	2 hp	5 hp	5 hp	16 AWG	10 AWG	Screw
DS20	Non-Current Interrupting	5 hp	7.5 hp	10 hp	14 AWG	8 AWG	Screw
DS30	Non-Current Interrupting	5 hp	15 hp	15 hp	14 AWG	4 AWG	Screw
DS60	Non-Current Interrupting	10 hp	25 hp	25 hp	10 AWG	2 AWG	Screw
DS100C	Non-Current Interrupting	20 hp	50 hp	50 hp	10 AWG	2 AWG	Screw
DSN150	Non-Current Interrupting	30 hp	75 hp	75 hp	4 AWG	2/0 AWG	Screw
DS200	Non-Current Interrupting	40 hp	100 hp	100 hp	4 AWG	4/0 AWG	Screw
DR30	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DR50	Non-Current Interrupting	-	-	-	14 AWG	4 AWG	Screw
DR250	Non-Current Interrupting	-	-	-	4 AWG	4/0 AWG	Screw
DSDC1	Non-Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DSDC3	Non-Current Interrupting	-	-	-	14 AWG	4 AWG	Screw
DSDC6	Non-Current Interrupting	-	-	-	10 AWG	2 AWG	Screw
DSDC9	Non-Current Interrupting	-	-	-	4 AWG	2/0 AWG	Screw
DSDC2	Non-Current Interrupting	-	-	-	4 AWG	4/0 AWG	Screw
DX1	Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DX3	Current Interrupting	-	-	-	14 AWG	8 AWG	Screw
DX6	Current Interrupting	-	-	-	6 AWG	1/0 AWG	Screw
DX9	Current Interrupting	-	-	-	2 AWG	2/0 AWG	Screw
PXN12c	Non-Current Interrupting	-	-	-	16 AWG	14 AWG	Solder/Crimp
DXN25c	Non-Current Interrupting	-	-	-	16 AWG	14 AWG	Solder/Crimp
DXN37c	Non-Current Interrupting	-	-	-	16 AWG	14 AWG	Solder/Crimp
SPeX	Non-Current Interrupting	-	-	-	2/0 AWG	750 MCM	Lug

MELTRIC PART NUMBERING...



First seven (7) digits for a basic inlet or receptacle part number

One (1) to six (6) suffixes for special features



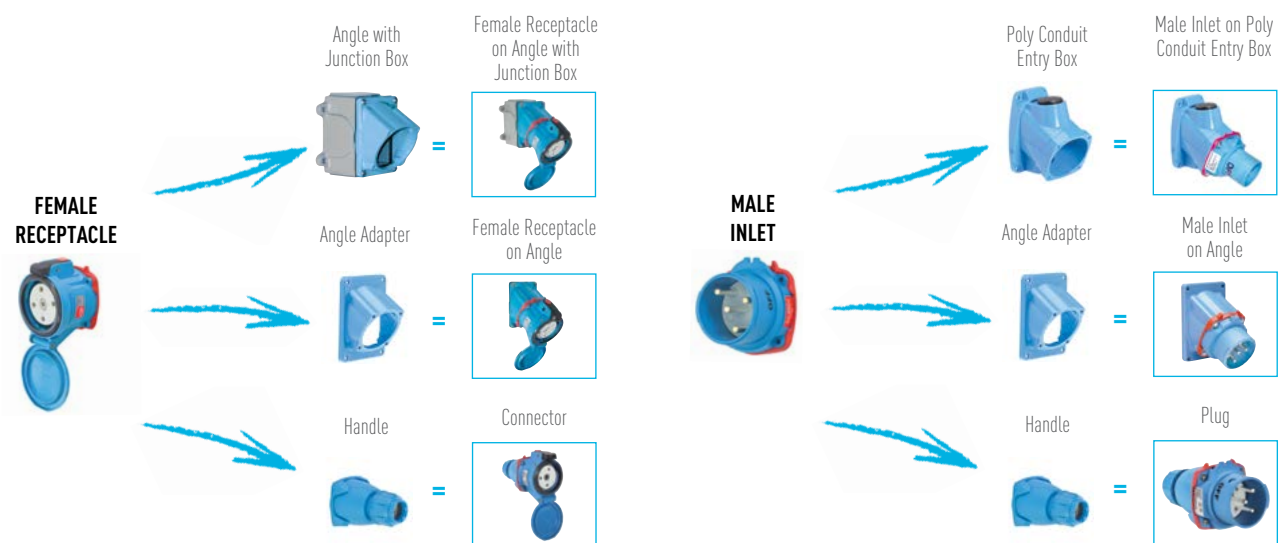
MELTRIC Product Line Type and Casing Material	AMP (A) Rating	Form and Mounting	Voltage Polarization Position Voltage Hz	Phasing
PN/PN7c 01 = Blue Poly 09 = Blue Metal PN12c 03 = Blue Poly 07 = Blue Metal PXN12c 06 = Black Metal DN 19 = Blue Metal DXN 22 = Black Poly DXA1 28 = Black Metal DX 26 = Black Metal DS 33 = Blue Poly 35 = Black Poly 36 = Black Metal (HazLoc) 37 = Blue Metal DXN25/37c 36 = Black Metal DR 31 = Blue Poly 35 = Black Poly 36 = Black Metal (HazLoc) 39 = Blue Metal SPeX 42 = Black Poly CS1000/SP 45 = Black Poly PFQ 47 = Gray Metal PF 49 = Gray Metal DSN 63 = Blue Poly 65 = Black Poly 66 = Black Metal (HazLoc) 69 = Blue Metal	DSN 1 = 20 3 = 30 6 = 60 9 = 150 DS 1 = 20 3 = 30 6 = 60/100C 9 = 100 2 = 200* DR 1 = 30 3 = 50 6 = 100 9 = 150 2 = 250* 4 = 400* PN20 N = 20 (IP66/ IP67) S = 20 (IP54/ IP55) PNHT 2 = 20 DXN 1 = 20 3 = 30 6 = 60 DXA1 1 = 20 * Available in metal only.	Female 4 = Receptacle Male 8 = Inlet DX, DXN37c, PXN12c, SPeX Only Female 0 = Receptacle on box 3 = Connector 4 = Receptacle Male 1 = Plug 6 = Inlet on Box	01 = $\frac{220 - 250}{380 - 440}$ 50 02 = 20/24 60 03 = $\frac{110 - 130}{190 - 230}$ 50 04 = $\frac{255 - 277}{440 - 480}$ 60 06 = 25/28 50 07 = $\frac{110 - 125}{220 - 250}$ 60 08 = 20/24 50 09 = 480/500 50 10 = 110/130 DC 11 = $\frac{115 - 127}{200 - 220}$ 400 12 = $\frac{115 - 127}{200 - 220}$ 200 13 = 40/48 50 14 = 347/600 60 16 = $\frac{120 - 127}{208 - 220}$ 60 17* = $\frac{110 - 125}{220 - 250}$ 60 18* = 347/600 60 19 = $\frac{380 - 400}{660 - 690}$ 50 20 = 220/250 DC 22 = 577/1000 50 23* = $\frac{120 - 127}{208 - 220}$ 60 24* = $\frac{255 - 277}{440 - 480}$ 60 * For DS100C and DR devices.	AC 2 = 2P+G AC 3 = 3P+G AC 5 = 1P+N+G AC 6 = 2P+N+G AC 7 = 3P+N+G AC A* = 2P AC B* = 3P AC C* = 3P+N AC D* = 1P+N AC G* = 2P+N AC DC 8** = 2P+G DC 9 = 2P+G DC Z* = 2P DC P = 2P+2P+G DC * For 50V or less only. ** Includes jumpers.

- Notes:**
- On metal devices, inlets are not painted, receptacles are painted.
 - This is the Keying Standard for MELTRIC products. Suffixes are available to accommodate non-interchangeable devices of the same size at the same voltage. Please ask for more details.

...AND ORDERING GUIDE

A MODULAR SYSTEM

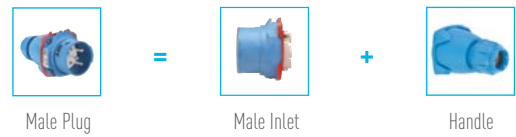
MELTRIC products are ordered and assembled in a modular fashion. Customers should select the desired male inlet and female receptacle part numbers. Then matching accessories such as handles, angles, and junction boxes should be identified and added to the order to create plugs, connectors, or other configurations. This modular system allows MELTRIC to build and ship product to customer specifications in a very short time - 90% of orders ship by the next business day.



EXAMPLE



EXAMPLE



TYPICAL ORDER

	63-34047	Female Receptacle
	512M3	Angle Adapter for Female
	63-38047	Male Inlet
	512P0D21	Handle for Male

SWITCH-RATED

Plugs & Receptacles

THE MAIN DIFFERENCES



**DECONTACTOR®
Technology**

Pressing the pawl/button on the receptacle will safely switch off power to the load. The plug can then be withdrawn in complete safety.
(Cutaway model shown for illustration purposes)

Like most MELTRIC products, Switch-Rated plugs and receptacles feature (see pgs 7-8)

- ▶ Spring-loaded butt contacts
- ▶ Silver-nickel contact materials
- ▶ Dead front design
- ▶ Enclosed arc chambers
- ▶ Spring-assisted terminals
- ▶ Auxiliary contacts

MELTRIC Switch-Rated plugs and receptacles have additional features, including:

- ▶ UL & CSA switch-ratings
- ▶ Horsepower ratings
- ▶ Short circuit ratings up to 100 kA in fuse protected circuits

Switch and Hp Ratings

MELTRIC Switch-Rated products are a combination plug, receptacle and non-fusible disconnect switch in the same device. Their integral switch technology ensures the safe breaking of resistive and inductive loads (up to 100 hp or 200 A) before an operator can physically remove the plug from the receptacle.

They are UL and CSA approved for both “branch circuit” and “motor circuit” disconnect switching, making them ideal for connecting motors, welding machines and virtually any other electrical equipment.

Short Circuit Ratings

MELTRIC Switch-Rated plugs and receptacles help ensure worker safety even in fault conditions. They are rated to close into and withstand short circuit currents of up to 100 kA. The protection far surpasses that offered by other plugs and receptacles, and even surpasses the short circuit protection offered by most manual motor controllers and mechanical interlocks.



To match the functionality of a Switch-Rated device, it would take a pin and sleeve plug plus a non-fused safety switch.

UL & CSA Standards

Test requirements and ratings comparison table

To achieve their UL 2682 switch ratings, MELTRIC Switch-Rated plugs and receptacles have passed tests that far exceed those of ordinary plugs and receptacles. These tests include horsepower/locked rotor overload tests from the UL 508 Standard for Industrial Control Equipment and electrical endurance and short-circuit make-and-withstand testing from the UL 98 standard for Enclosed and Dead Front Switches.

To illustrate how the electrical and mechanical endurance of MELTRIC Switch-Rated plugs and receptacles far exceeds standard plugs, the following chart compares the test requirements for achieving a Switch-Rated plug & receptacle listing with those required for a standard pin and sleeve plug & receptacle listing.

Test	UL 1682 & CSA 22.2 No. 182.1		UL Subject 2682 (used for both UL & CSA listings)
	Plugs, Receptacles & Cable Connectors of the Pin & Sleeve Type		Switch-Rated Plugs & Receptacles
	Non-Current Interrupting Break (minimum requirements)	Current Interrupting (minimum requirements)	Motor Circuit/Branch Circuit Disconnect Switching (Tests passed by MELTRIC devices)
Temperature Rise	< 30°C	< 30°C	< 30°C
Voltage Withstand	3,000VAC for 1 Minute	3,000VAC for 1 Minute	3,000VAC for 1 Minute
Overload General Use Devices	3 Operations @ 150% Rated Current (p.f. = .75 - .80)	50 Operations @ 150% Rated Current (p.f. = .75 - .80)	50 Operations @ 150% Rated Current (p.f. = .75 - .80)
Mechanical Endurance (Plus Req'd Electrical Opns)	15-20 A = 5000 Operations 21-63 A = 2000 Operations 64-250 A = 250 Operations	15-20 A = 0 Operations 21-63 A = 1000 Operations 64-250 A = 500 Operations	4000 Cycles
Electrical Endurance (with load)	-	15-20 A = 5000 Operations 21-63 A = 1000 Operations ¹ 64-250 A = 250 Operations ¹ @ Rated Current & Voltage (p.f. = .75 - .80)	6000 Operations @ Rated Current & Voltage (p.f. = .75 - .80)
Overload - Locked Rotor (Horsepower Rated Devices)	-	50 Operations @ 600% of Full Load Motor Current (p.f. = .40 - .50)	50 Operations @ 600% of Full Load Motor Current (p.f. = .40 - .50)
Short Circuit Withstand	-	≥ 10 kA ⁺ (600V and ≤ .50 power factor)	≥ 10 kA ⁺ (600V and ≤ .50 power factor)
Short Circuit Closing	-	-	≥ 10 kA ⁺ (600V and ≤ .50 power factor)

¹ Testing alternates between mechanical & electrical operations. This reduces the severity of the electrical test by allowing additional cooling time during electrical testing.
⁺ All MELTRIC Switch-Rated devices are UL listed with short circuit ratings of at least 65kA achieved at 600VAC and ≤ .15 power factor.



BENEFITS OF USING MELTRIC SWITCH-RATED DEVICES

Ensure Worker Safety

Switch-Rated plugs and receptacles ensure safety by eliminating hazards associated with pin and sleeve and twist-type devices.

- ▶ The integral switching function ensures that the plug contacts are de-energized before an operator can remove the plug from the receptacle. The dead-front design prevents unintended access to live parts.
- ▶ Spring-loaded, silver-nickel butt-style contacts maintain proper contact force, withst and arcing, resist wear, and maintain low contact resistance. This ensures the integrity of the connection over thousands of operations and eliminates performance and safety problems common to plugs with brass contacts.
- ▶ Spring-loaded plug and receptacle disengagement with push button operation ensures fast and easy load breaking, which minimizes arcing during disconnection. Enclosed arc chambers eliminate arc flash hazards.
- ▶ Horsepower, switch, and short-circuit ratings provide additional protection during locked-rotor or other significant overload situations.



Simplify Code Compliance

Switch-Rated devices provide a simple and cost-effective means of helping facilities to achieve compliance with the National Electrical Code and NFPA 70E.

NEC Compliance

Articles 430.101 to 430.113 of the National Electrical Code regulate the means of motor disconnection (Canadian Electrical Code section 28-600–28-604). They require motors to have readily accessible, 'line of sight' disconnects that are an approved switch or a properly rated plug and receptacle.

- ▶ **430.102** A disconnecting means must be located in sight of the motor and driven equipment.
- ▶ **430.107** The disconnecting means must be readily accessible.
- ▶ **430.109** The disconnecting means may be an approved switch or horsepower rated plug and receptacle.

MELTRIC Switch-Rated plugs and receptacles are both horsepower and switch-rated. They can function as a 'line of sight' disconnect in addition to providing a convenient plug and play power connection for the motor. Installing a switch-rated device eliminates the need for an auxiliary disconnect switch.

NFPA 70E (CSA Z462)

This OSHA consensus standard covers electrical safety-related work practices and procedures for employees who work on or near exposed energized electrical conductors or other live circuit parts. Relevant requirements include:

Power must be proven to be off before work can be performed. This requires:

- ▶ The safe interruption of the load and opening of the disconnect
- ▶ Visual verification/voltage testing to ensure de-energization

The potential electrical hazard must be identified and documented.

- ▶ An arc flash risk assessment must be performed
- ▶ Flash protection boundaries must be determined

Appropriate steps must be taken to protect persons working near live parts or within the flash protection boundary.

- ▶ PPE must be worn based on incident energy exposure levels (cal/cm²)
- ▶ Only properly qualified persons are allowed to perform work

...THROUGHOUT YOUR FACILITY

Wiring and connection systems utilizing conventional switches and/or pin & sleeve devices would typically require all of the previously listed protective measures to comply with NFPA 70E or CSA Z462. By using MELTRIC Switch-Rated plugs and receptacles to connect equipment, users can very simply comply with these requirements.

Switch ratings ensure the safe interruption of the load. Visual verification that the power is off is provided when the plug is removed from the receptacle. A dead front design prevents an operator from being exposed to live parts, eliminating the need to perform hazard analysis, establish flash protection boundaries and use electrical personal protective equipment.

A Comparison of the Motor Change-Out Process

MOTOR HARD-WIRED TO A BLADED DISCONNECT SWITCH	MOTOR CONNECTED WITH A MELTRIC MOTOR PLUG	MOTOR CONNECTED WITH A COMPETING PLUG & RECEPTACLE
The disconnect switch may be difficult to install in "line of sight" of the motor. 18" Qualified Worker w/PPE	OR OR ▶ Cord connection allows easy "line of sight" location ▶ Dead front eliminates access to live parts and need for cumbersome PPE ▶ Ability to safely make & break under load eliminates the need for interlocks ▶ $\geq 10\text{kA}$ short circuit make-and-withstand rating ensures safety during reenergization	▶ Expensive mechanical interlocks are required since these plugs & receptacles cannot safely make & break under load ▶ The interlock must be mounted on a fixed surface this may make "line of sight" location more difficult
MOTOR CHANGE-OUT PROCESS	MOTOR CHANGE-OUT PROCESS	MOTOR CHANGE-OUT PROCESS
1. Switch disconnect to OFF position 2. Apply lockout/tagout 3. Perform Shock/Arc Flash Risk Assessment 4. Obtain permit for energized electrical work 5. Suit up with appropriate PPE 6. Remove the disconnect switch cover 7. Voltage test to verify deenergization 8. Disconnect motor from hard-wiring 9. Remove old/install new motor 10. Connect new motor to hard-wiring 11. Jog the motor to ensure proper rotation	1. Depress the pawl on the receptacle to break the circuit 2. Mechanic removes plug from receptacle 3. Apply lockout/tagout as required 4. Mechanic removes old /installs new motor 5. Mechanic inserts plug into receptacle MELTRIC Makes it Safe & Easy	1. Open interlock switch 2. Determine PPE requirements and obtain permit for electrical work 3. Remove interlock cover 4. Verify deenergization with a voltmeter test 5. Remove plug 6. Apply lockout/tagout as required 7. Remove old/install new motor 8. Insert plug into receptacle

Reduce Equipment and Installation Costs

The ability of MELTRIC Switch-Rated devices to safely make and break under full load eliminates the need for the expensive interlocks that are required with pin and sleeve devices. Their ability to function as the NEC required 'line of sight' disconnect switch eliminates the need for auxiliary disconnect switches. Optional pilot contacts can eliminate the need of auxiliary connectors in control circuits.

Reduce Equipment Change-out Downtime and Cost

Using MELTRIC Switch-Rated plugs and receptacles to connect motors and other equipment instead of hard-wiring can help reduce equipment change-out time by as much as 50%. With new motors pre-wired with MELTRIC plugs or inlets, the only electrical connection required during the change-out will be to plug in the new motor. Thus, a mechanic will be able to perform the change-out without the immediate aid of an electrician. This avoids the inconvenience of scheduling an electrician for a service call. So, extra downtime required to do the wiring is eliminated. The pre-wiring of replacement motors with MELTRIC plugs or inlets can be done off-site and during the convenience of non-downtime periods. This makes MELTRIC plugs and receptacles an ideal choice for 'plug and play' and modular process applications.

SELECTING THE RIGHT MELTRIC SWITCH-RATED PLUG & RECEPTACLE

All SWITCH-RATED devices (DSN and DS) feature DECONTACTOR® Technology:



- ▶ UL and CSA switch-ratings
- ▶ Short circuit closing and withstand protection (10kA to 100kA)



- ▶ Silver-nickel contact material
- ▶ Spring-loaded, butt-style contacts



- ▶ Dead front safety shutter
- ▶ Optional auxiliary contacts



DSN Series (pages 25-38)

Choose DSN Series for its...

- ▶ Compact, lightweight design
- ▶ Automatic Type 4X/IP69/IP69k watertightness
- ▶ High HP Ratings (up to 75 hp)

Common Applications

- ▶ Wet or washdown environments
- ▶ Plug & play electrical connections



DS Series (pages 39-56)

Choose DS Series for its...

- ▶ Amperage range (up to 200 A)
- ▶ Poly or metal casing materials (60 A and above)
- ▶ Larger conductor capacities
- ▶ High HP Ratings (up to 100 hp)

Common Applications

- ▶ Heavy industry
- ▶ High amperage equipment

DSN Models and Ratings

Model	Casing Material	Maximum Voltage (VAC)	Amperage Rating	Maximum Number of Contacts		Environmental Rating	Maximum Horsepower Rating	
				Main	Auxiliary		480 VAC	600 VAC
DSN20	Poly	600 VAC	20 A	3P+N+G	2 pilots	Type 4X/IP69/IP69K	7.5 hp	7.5 hp
DSN30	Poly	600 VAC	30 A	3P+N+G	2	Type 4X/IP69/IP69K	10 hp	15 hp
DSN60	Poly	600 VAC	60 A	3P+N+G	4	Type 4X/IP69/IP69K	20 hp	20 hp
DSN150	Poly or Metal	600 VAC	150 A	3P+N+G	6	Type 4X/IP69/IP69K	75 hp	75 hp

DS Models and Ratings

Model	Casing Material	Maximum Voltage (VAC)	Amperage Rating	Maximum Number of Contacts		Environmental Rating	Maximum Horsepower Rating	
				Main	Auxiliary		480 VAC	600 VAC
DS20	Poly	600 VAC	20 A	3P+N+G	2	Type 3R	7.5 hp	10 hp
DS30	Poly	600 VAC	30 A	3P+N+G	4	Type 3R	15 hp	15 hp
DS60	Poly	600 VAC	60 A	3P+N+G	4	Type 3R	25 hp	25 hp
DS100C	Poly or Metal	600 VAC	100 A	3P+N+G	4	Type 3R	50 hp	50 hp
DS100	Poly or Metal	600 VAC	100 A	3P+N+G	6	Type 3R	30 hp	–
DS200	Metal	600 VAC	200 A	3P+N+G	6	Type 3R	100 hp	100 hp

SWITCH-RATED

Plugs & Receptacles



MELTRIC's Switch-Rated product line featuring DECONTACTOR® technology, includes devices rated from 20 amps to 200 amps. An integral switch mechanism enables workers to safely connect and disconnect motors, welding machines and other industrial equipment.



DSN P. 25

COMPACT SIZE WITH IP69K WATERTIGHTNESS

- 20 A to 150 A (75 hp)
- Automatic Type 4X/IP69/IP69K watertightness



DS P. 39

LARGER WIRING CAPACITY AND METAL CASINGS

- 20 A to 200 A, Type 3R (4X optional)
- Poly or metal casings (60 A and above)
- Larger conductor capacities

DSN Switch-Rated Plug and Receptacle with Type 4X/IP69/IP69K protection



Main Advantages

- ▶ Switch & Hp rated
- ▶ 100 kA short circuit rated*
- ▶ Type 4X/IP69/IP69K or IP66/IP67
- ▶ Compact, lightweight design
- ▶ Up to 6 auxiliary contacts

* See note under General Ratings on the next page.



Highlighted Advantage



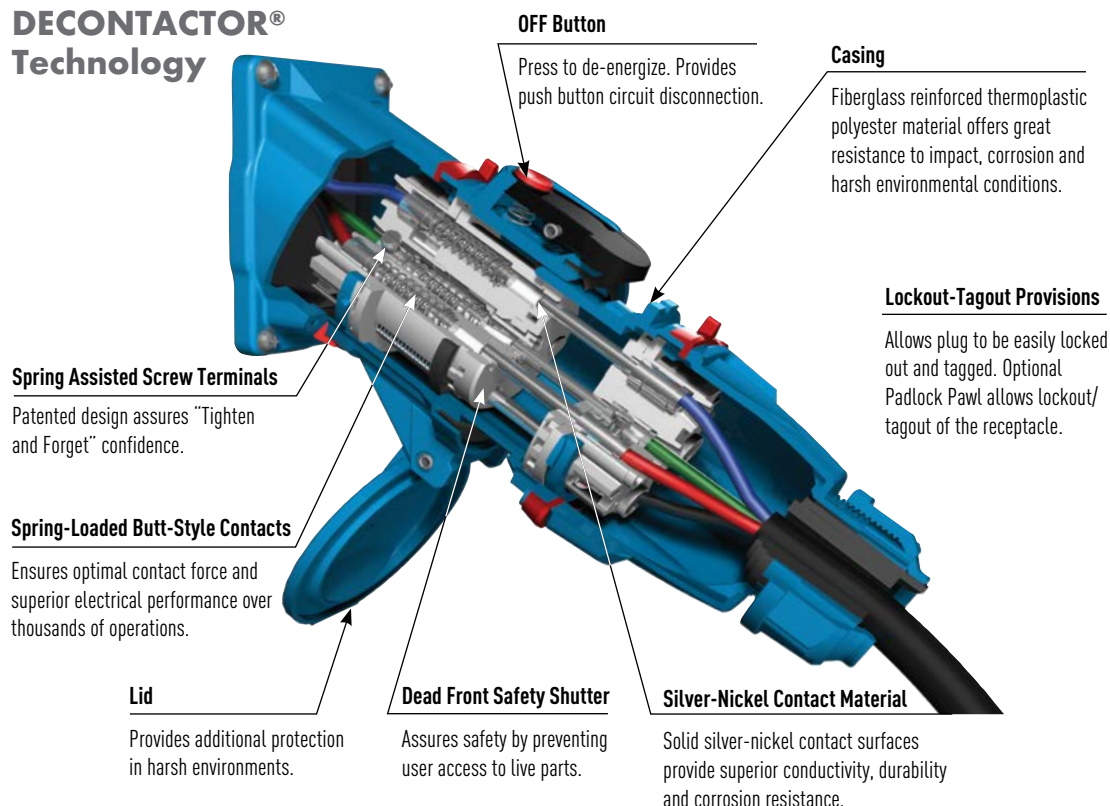
Simplify Compliance to NFPA 70E & CSA Z462 see pgs 19-20 for more information.



- | | | | |
|------------------------|-------|---------------|-------|
| ▶ Features and Ratings | p. 26 | ▶ DSN150 | p. 33 |
| ▶ DSN20 | p. 27 | ▶ Spare Parts | p. 35 |
| ▶ DSN30 | p. 29 | ▶ Dimensions | p. 37 |
| ▶ DSN60 | p. 31 | | |

PRODUCT FEATURES

DECONTACTOR® Technology



General Ratings

Amperage	20 to 150 A
Voltage	600 VAC
Frequency	50-400 Hz
Horsepower	.75 to 75 hp
Short-Circuit (Make & Withstand)	100kA*
Environmental	Type 4X/IP69/IP69K
Temperature	min -40°F/max 140°F

* DSN20, DSN30, DSN60: Testing was performed with RK1 current limiting fuses sized at 400% or more of the highest full load motor ampacity associated with the devices horsepower ratings.

* DSN150: 100kA testing was performed with 225 A RK1 non-time delay Mersen fuses. 10kA testing was performed with 400 A RK1 non-time delay Mersen fuses.

Listings

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1
Branch Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23
Motor Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23

CE ratings available upon request.

Operating Instructions



When the plug and receptacle are latched together, the circuit is connected.



Pressing the pawl breaks the connection and opens the circuit. The plug is ejected to its rest position; The contacts are now dead.



Rotating the 'dead' plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.

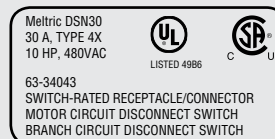


The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

Highlighted Feature

Typical Device Labels



MELTRIC DSN Series Switch-Rated devices are UL & CSA rated for "motor circuit" and "branch circuit" disconnect switching – up to 75 hp and up to 150 A.

DSN20 Switch-Rated Plugs & Receptacles – 20 A

UL/CSA Ratings

- **Max Amperage & Voltage**
20 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	.75 hp
240V	1Ø	2 hp
208V	3Ø	3 hp
240V	3Ø	3 hp
480V	3Ø	7.5 hp
600V	3Ø	7.5 hp
- **Short Circuit Rating**
100kA Close & Withstand
Testing was performed with 35 A RK1
non-time delay Mersen fuses.
10kA Close & Withstand
Testing was performed with 50 A RK1
non-time delay Mersen fuses.
- **Environmental Ratings**
Type 4X/IP69/IP69K*
*Also meets IP66/IP67 requirements
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 12 AWG
Aux Contacts - 18 AWG prewired
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	63-14165	63-18165
120 208V	3P+N+G	63-14167	63-18167
125V	1P+N+G	63-14075	63-18075
125 250V	2P+N+G	63-14076	63-18076
208V	2P+G	63-14162	63-18162
208V	3P+G	63-14163	63-18163
250V	2P+G	63-14072	63-18072
250V	3P+G	63-14073	63-18073
277V	1P+N+G	63-14045	63-18045
277 480V	3P+N+G	63-14047	63-18047
347 600V	3P+N+G	63-14147	63-18147
480V	2P+G	63-14042	63-18042
480V	3P+G	63-14043	63-18043
600V	2P+G	63-14142	63-18142
600V	3P+G	63-14143	63-18143

Main Options



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**
Recommended for cord
applications to keep lid
tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972+

Self-Ejecting Plug Release

Inlet # - 338

Straight Insertion

Recept # - 352

With No Lockout Hole

Inlet # - A155

Self-Ejecting Connector Release

Recept # - 354

Mushroom Pawl

Recept # - 375

Padlock Pawl

Recept # - 843

Padlockable Mushroom Pawl

Recept # - 375-843

Metal Pawl

Recept # - 824

Closed Lid Configuration

Recept # - NC

Notes: * Unlike other DSN & DS products, the DSN20 pilots are only on the receptacle side and create a continuity loop that is completed when a plug is connected to the receptacle.

! See pages 233-242 for detailed information on these options

Order Example: 480V DSN20 with padlock pawl
DSN20 Receptacle 3P+G = 63-14043-843

INSTALLATION ACCESSORIES – SIZE 1

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	511P0N05	791P0N05L
	3/4"	511P0N07	791P0N07L
	1"	511P0N10	791P0N10L

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP		Cable Range	Part #
		.350 - .520"	711P0BP6
		.520 - .680"	711P0CP5
		.680 - .980"	711P0DP4

METAL HANDLE w/CORD GRIP		Cable Range	Part #
		.438 - .500"	791P0BS3L
		.500 - .562"	791P0BS4L
		.562 - .625"	791P0BS5L
		.625 - .750"	791P0CS4L

POLY HANDLE		Cable Range	Part #
		.35 - .70"	511P0D18

POLY EXTENDED HANDLE		Cable Range	Part #
		.20 - .83"	511P0D21

POLY ANGLED HANDLE		Cable Range	Part #
		.35 - .70"	511P6D18

ANGLES

POLY ANGLE		Part #
	MB Box 30°	511M3

	70°	511M7
---	-----	-------

METAL ANGLE		Part #
	0°	591M0

	FS/FD Box 30°	791M3FS
---	---------------	---------

	45°	591M4
---	-----	-------

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

BOXES

POLY CONDUIT ENTRY w/NPT			Part #
	30°	1/2"	511B3N05
	30°	3/4"	511B3N07

* 6.7 in³

* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE		Part #
	70°	511C7000

* 82.0 in³

70° poly boxes are not drilled. Contact customer service if factory drilled is required.

	Ground Bar	51AA089
---	------------	---------

* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	711C7N05
	70°	3/4"	711C7N07
	70°	1"	711C7N10
	70°	1 1/4"	711C7N12
	70°	1 1/2"	711C7N15

* 74.6 in³

* Interior volume with receptacle installed.

* 74.6 in³

* Interior volume with receptacle installed.

METAL BOX w/NPT			
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	711C3N05
	30°	3/4"	711C3N07
	30°	1"	711C3N10
	30°	1 1/4"	711C3N12

* 29.8 in³

* Interior volume with receptacle installed.

* 29.8 in³

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		Part #	Description
		61-1A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		Part #	Description
		61-1A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		Part #	Description
		61-1A826	For Inlets/Plugs Only.

SCREWDRIVER FOR TERMINAL SCREWS		Part #	Description
		SD18	Klein 608-3 1/8" cabinet with 3" round shank.

EASY RETROFIT ADAPTER PLATES		Part #	Description
		see pg 162	Mount to existing boxes.

RECEPTACLE LOCKING PIN		Part #	Description
		LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DSN30 Switch-Rated Plugs & Receptacles – 30 A

UL/CSA Ratings

- **Max Amperage & Voltage**
30 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	1 hp
240V	1Ø	3 hp
208V	3Ø	5 hp
240V	3Ø	5 hp
480V	3Ø	10 hp
600V	3Ø	15 hp
- **Short Circuit Rating**
100kA Close & Withstand
Testing was performed with RK1
current limiting fuses sized at 400%
of the highest full load motor
ampacity associated with the
devices hp rating.
- **Environmental Ratings**
Type 4X/IP69/IP69K*
*Also meets IP66/IP67 requirements
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
Aux Contacts - 14 AWG
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	63-34165	63-38165
120 208V	3P+N+G	63-34167	63-38167
125V	1P+N+G	63-34075	63-38075
125 250V	2P+N+G	63-34076	63-38076
208V	2P+G	63-34162	63-38162
208V	3P+G	63-34163	63-38163
250V	2P+G	63-34072	63-38072
250V	3P+G	63-34073	63-38073
277V	1P+N+G	63-34045	63-38045
277 480V	3P+N+G	63-34047	63-38047
347 600V	3P+N+G	63-34147	63-38147
480V	2P+G	63-34042	63-38042
480V	3P+G	63-34043	63-38043
600V	2P+G	63-34142	63-38142
600V	3P+G	63-34143	63-38143

Main Options



**Auxiliary/Pilot
Contacts**



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**

Recommended for cord
applications to keep lid
tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts
Straight Insertion
Self-Ejecting Connector Release
Mushroom Pawl
Padlock Pawl
Padlockable Mushroom Pawl
Metal Pawl
Closed Lid Configuration
With Auxiliary Switch

Recept # - 972
Recept # - 352
Recept # - 354
Recept # - 375
Recept # - 843
Recept # - 375-843
Recept # - 824
Recept # - NC
Recept # - 270+

With 2 Auxiliary/Pilot Contacts
Self-Ejecting Plug Release
With No Lockout Hole
For Auxiliary Switch

Inlet # - 972
Inlet # - 338
Inlet # - A155
Inlet # - NNF*

Notes: + Not UL/CSA listed.

Order Example: 480V DSN30 + 2 auxiliary contacts
DSN30 Inlet 3P+G = 63-38043-972

! See pages 233-242 for detailed
information on these options

INSTALLATION ACCESSORIES – SIZE 2

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	512P0N05	592P0N05
	3/4"	512P0N07	592P0N07
	1"	512P0N10	592P0N10
	1 1/4"	512P0N12	-

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	712P0BP6
	.520 - .680"	712P0CP5
	.680 - .980"	712P0DP4
	.980 - 1.260"	712P0EP4

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.438 - .500"	792P0BS3
	.500 - .562"	792P0BS4
	.562 - .625"	792P0CS2
	.625 - .750"	792P0CS4
	.750 - .875"	792P0DS1
	.875 - 1.000"	792P0DS3

POLY HANDLE	Cable Range	Part #
	.20 - .83"	512P0D21

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	.750 - .875"	712P0S14
	.875 - 1.000"	712P0S16
	1.000 - 1.125"	712P0S18
	1.125 - 1.250"	712P0S20
	1.250 - 1.375"	712P0S22

ANGLES

POLY ANGLE	Angle	Part #
	30°	512M3

	70°	512M7
---	-----	-------

METAL ANGLE	Angle	Part #
	0°	592M0
	30°	592M3

	FS/FD Box 30°	792M3FS
---	---------------	---------

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

BOXES

POLY CONDUIT ENTRY w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	512B3N05	* Interior volume with receptacle installed.
	30°	3/4"	512B3N07	

* 8.5 in³

POLY WALL BOX w/ANGLE	Angle	Part #	Notes
	70°	512C7000	70° poly boxes are not drilled. Contact customer service if factory drilled is required.
	Ground Bar	51AA089	* Interior volume with receptacle installed.

* 82.0 in³

POLY ANGLE w/METAL BOX w/NPT	Angle	Size	Part #	Notes
	70°	1/2"	712C7N05	* Interior volume with receptacle installed.
	70°	3/4"	712C7N07	
	70°	1"	712C7N10	
	70°	1 1/4"	712C7N12	
	70°	1 1/2"	712C7N15	

* 74.6 in³

METAL BOX w/NPT	Angle	Size	Part #
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE w/METAL BOX w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	712C3N05	* Interior volume with receptacle installed.
	30°	3/4"	712C3N07	
	30°	1"	712C3N10	
	30°	1 1/4"	712C3N12	

* 28.7 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES	Part #	Description
	61-3A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	Part #	Description
	61-3A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	Part #	Description
	61-3A826	For Inlets/Plugs Only.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	Part #	Description
	61-3A226	Metal - For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SCREWDRIVER FOR TERMINAL SCREWS	Part #	Description
	SD18	Klein 608-3 1/8" cabinet with 3" round shank.

RECEPTACLE LOCKING PIN	Part #	Description
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DSN60 Switch-Rated Plugs & Receptacles – 60 A

UL/CSA Ratings

- **Max Amperage & Voltage**
60 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	2 hp
240V	1Ø	3 hp
208V	3Ø	7.5 hp
240V	3Ø	7.5 hp
480V	3Ø	20 hp
600V	3Ø	20 hp
- **Short Circuit Rating**
100kA Close & Withstand
Testing was performed with RK1
current limiting fuses sized at 400%
of the highest full load motor
ampacity associated with the
devices hp rating.
- **Environmental Ratings**
Type 4X/IP69/IP69K*
*Also meets IP66/IP67 requirements
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 12 AWG Max 4 AWG
Aux Contacts - Max 14 AWG
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	63-64165	63-68165
120 208V	3P+N+G	63-64167	63-68167
125V	1P+N+G	63-64075	63-68075
125 250V	2P+N+G	63-64076	63-68076
208V	2P+G	63-64162	63-68162
208V	3P+G	63-64163	63-68163
250V	2P+G	63-64072	63-68072
250V	3P+G	63-64073	63-68073
277V	1P+N+G	63-64045	63-68045
277 480V	3P+N+G	63-64047	63-68047
347 600V	3P+N+G	63-64147	63-68147
480V	2P+G	63-64042	63-68042
480V	3P+G	63-64043	63-68043
600V	2P+G	63-64142	63-68142
600V	3P+G	63-64143	63-68143

Main Options



**Auxiliary/Pilot
Contacts**



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**

Recommended for cord
applications to keep lid
tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 973

With 3 Auxiliary/Pilot Contacts

Inlet # - 973

With 4 Auxiliary/Pilot Contacts

Recept # - 974

With 4 Auxiliary/Pilot Contacts

Inlet # - 974

Straight Insertion

Recept # - 352

Self-Ejecting Plug Release

Inlet # - 338

Self-Ejecting Connector Release

Recept # - 354

With No Lockout Hole

Inlet # - A155

Mushroom Pawl

Recept # - 375

For Auxiliary Switch

Inlet # - NNF*

Padlock Pawl

Recept # - 843

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

Padlockable Mushroom Pawl

Recept # - 375-843

Metal Pawl

Recept # - 824

Closed Lid Configuration

Recept # - NC

With Auxiliary Switch

Recept # - 270+

Notes: + Not UL/CSA listed.

! See pages 233-242 for detailed information on these options

Order Example: 480V DSN60 + 2 auxiliary contacts
DSN60 Inlet 3P+G = 63-68043-972

INSTALLATION ACCESSORIES – SIZE 3

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	513P0N05	593P0N05
	3/4"	513P0N07	593P0N07
	1"	513P0N10	593P0N10
	1 1/4"	513P0N12	593P0N12

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.520 - .680"	713P0CP5
	.680 - .980"	713P0DP4
	.980 - 1.260"	713P0EP4

METAL HANDLE w/CORD GRIP		
	.625 - .750"	793P0CS4
	.750 - .875"	793P0DS1
	.875 - 1.000"	793P0DS3
	1.000 - 1.125"	793P0ES2

POLY HANDLE		
	.39 - 1.18"	513P0D30

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.39 - 1.18"	513P0D30473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	.750 - .875"	713P0S14
	.875 - 1.000"	713P0S16
	1.000 - 1.125"	713P0S18
	1.125 - 1.250"	713P0S20
	1.250 - 1.375"	713P0S22

ANGLES

POLY ANGLE		
	30°	513M3

	70°	513M7
---	-----	-------

METAL ANGLE		
	0°	593M0

	30°	593M3
---	-----	-------

	FS/FD Box 30°	793M3FS
---	---------------	---------

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

	70°	593M7
---	-----	-------

BOXES

POLY CONDUIT ENTRY w/NPT				Part #
	30°	1/2"		513B3N05
	30°	3/4"		513B3N07
	30°	1"		513B3N10

* 13.5 in³

* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE				Part #
	70°			513C7000

* 179.41 in³

70° poly boxes are not drilled. Contact customer service if factory drilled is required.

	Ground Bar			51AA089
---	------------	--	--	---------

* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT				Part #
	70°	1/2"		713C7N05
	70°	3/4"		713C7N07
	70°	1"		713C7N10
	70°	1 1/4"		713C7N12
	70°	1 1/2"		713C7N15

* 177.7 in³

* Interior volume with receptacle installed.

METAL BOX w/NPT				Part #
	0°	1/2"		7T1F0N05
	0°	3/4"		7T1F0N07
	0°	1"		7T1F0N10
	0°	1 1/4"		7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT				Part #
	30°	1/2"		713C3N05
	30°	3/4"		713C3N07
	30°	1"		713C3N10
	30°	1 1/4"		713C3N12

* 29.6 in³

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	61-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	61-6A826	For Inlets/Plugs Only.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	61-6A226	Metal – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

CORD GRIP with or w/o MESH	
	see pg 165

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DSN150 Switch-Rated Plugs & Receptacles – 150 A

UL/CSA Ratings

- **Max Amperage & Voltage**
150 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	7.5 hp
240V	1Ø	20 hp
208V	3Ø	30 hp
240V	3Ø	30 hp
480V	3Ø	75 hp
600V	3Ø	75 hp
- **Short Circuit Rating**
100kA Close & Withstand
Testing was performed with 225 A RK1 non-time delay Mersen fuses.
10kA Close & Withstand
Testing was performed with 400 A RK1 non-time delay Mersen fuses.
- **Environmental Ratings**
Type 4X/IP69/IP69K*
*Also meets IP66/IP67 requirements
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 4 AWG Max 2/0 AWG
Aux Contacts - Prewired w/14 AWG
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)

Easy Closing Mechanism



If you have an existing removable and/or permanently attached drawbar, contact customer service.



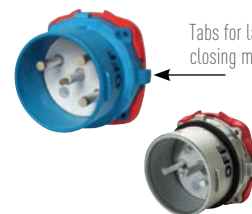
Don't forget to add installation accessories to your order



Poly casing opens to 180° while the metal casing opens only 90°.

Inlet (male)

Tabs for latching to closing mechanism



North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	63-94165	69-94165	63-98165	69-98165
120 208V	3P+N+G	63-94167	69-94167	63-98167	69-98167
125V	1P+N+G	63-94075	69-94075	63-98075	69-98075
125 250V	2P+N+G	63-94076	69-94076	63-98076	69-98076
208V	2P+G	63-94162	69-94162	63-98162	69-98162
208V	3P+G	63-94163	69-94163	63-98163	69-98163
250V	2P+G	63-94072	69-94072	63-98072	69-98072
250V	3P+G	63-94073	69-94073	63-98073	69-98073
277V	1P+N+G	63-94045	69-94045	63-98045	69-98045
277 480V	3P+N+G	63-94047	69-94047	63-98047	69-98047
347 600V	3P+N+G	63-94147	69-94147	63-98147	69-98147
480V	2P+G	63-94042	69-94042	63-98042	69-98042
480V	3P+G	63-94043	69-94043	63-98043	69-98043
600V	2P+G	63-94142	69-94142	63-98142	69-98142
600V	3P+G	63-94143	69-94143	63-98143	69-98143

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- With 5 Auxiliary/Pilot Contacts
- With 6 Auxiliary/Pilot Contacts
- Straight Insertion
- Self-Ejecting Connector Release
- Mushroom Pawl
- Padlock Pawl
- Padlockable Mushroom Pawl
- Locking Mushroom Pawl
- Metal Pawl (on Poly Receptacle)
- 180° Opening Lid (metal only)
- Closed Lid Configuration
- With Auxiliary Switch

- Recept # - 262**
- Recept # - 263**
- Recept # - 264**
- Recept # - 975**
- Recept # - 976**
- Recept # - 352**
- Recept # - 354**
- Recept # - 375**
- Recept # - 843**
- Recept # - 375-843**
- Recept # - 845**
- Recept # - 824**
- Recept # - 180++**
- Recept # - NC**
- Recept # - 270+**

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- With 5 Auxiliary/Pilot Contacts
- With 6 Auxiliary/Pilot Contacts
- Self-Ejecting Plug Release
- With No Lockout Hole
- For Auxiliary Switch

- Inlet # - 262**
- Inlet # - 263**
- Inlet # - 264**
- Inlet # - 975**
- Inlet # - 976**
- Inlet # - 338**
- Inlet # - A155**
- Inlet # - NNF***

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.



See pages 233-242 for detailed information on these options

Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.

Order Example: 480V DSN150 + 2 auxiliary contacts
DSN150 Poly inlet 3P+G = 63-98043-262

INSTALLATION ACCESSORIES – SIZE 5

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	3/4"	515P0N07	595P0N07
	1"	515P0N10	595P0N10
	1 1/4"	515P0N12	595P0N12
	1 1/2"	515P0N15	595P0N15
	2"	515P0N20	595P0N20
	For metal devices only		

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP		Cable Range	Part #
		.980 - 1.260"	715P0EP4
		1.260 - 1.560"	715P0FP1
		1.520 - 1.860"	715P0GP2

METAL HANDLE w/CORD GRIP			
		1.250 - 1.375"	795P0FS1
		1.438 - 1.562"	795P0FS2*
		1.562 - 1.688"	795P0FS3*
		1.688 - 1.812"	795P0GS1
		For metal devices only	

*May require stripping of cable jacket.

METAL OVERSIZED HANDLE w/NPT			
	3/4"		795P0N07
	1"		795P0N10
	1 1/4"		795P0N12
	1 1/2"		795P0N15
	2"		795P0N20
	2 1/2"		795P0N25
	For metal devices only		

For available cord grips, see page 165.

SANTOPRENE HANDLE			
		.70 - 1.000"	555P0D25
		.984 - 1.377"	555P0D35
	IP66/IP67	1.378 - 1.771"	555P0D45

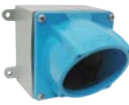
POLY HANDLE w/CLAMP & BUSHING			
		1.250 - 1.375"	715P0S22
		1.438 - 1.562"	715P0S25
		1.562 - 1.688"	715P0S27
		1.688 - 1.812"	715P0S29

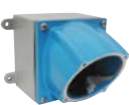
ANGLES

POLY ANGLE			
	30°		515M3
METAL ANGLE			
	0°		595M0
	30°		595M3
	Oversized 30°		795M3
	70°		595M7

Mounts on oversize box only. Order with 7T6F0N25XL box. See pg 52.

BOXES

POLY ANGLE WITH METAL BOX w/NPT			Part #	
	30°	1 1/4"	715C3N12	* Interior volume with receptacle installed.
	30°	1 1/2"	715C3N15	
	30°	2"	715C3N20	
	* 108.7 in ³	30°	2 1/2"	
METAL ANGLE WITH METAL BOX w/NPT				

	30°	1 1/4"	795C3N12	* Interior volume with receptacle installed.
	30°	1 1/2"	795C3N15	
	30°	2"	795C3N20	
	* 111.8 in ³	30°	2 1/2"	

METAL BOX w/NPT				
	0°	1 1/4"	7T5F0N12	* Interior volume with receptacle installed.
	0°	1 1/2"	7T5F0N15	
	0°	2"	7T5F0N20	
	0°	2 1/2"	7T5F0N25	

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP			
	31-9A426	For Inlets/Plugs Only. Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability.	

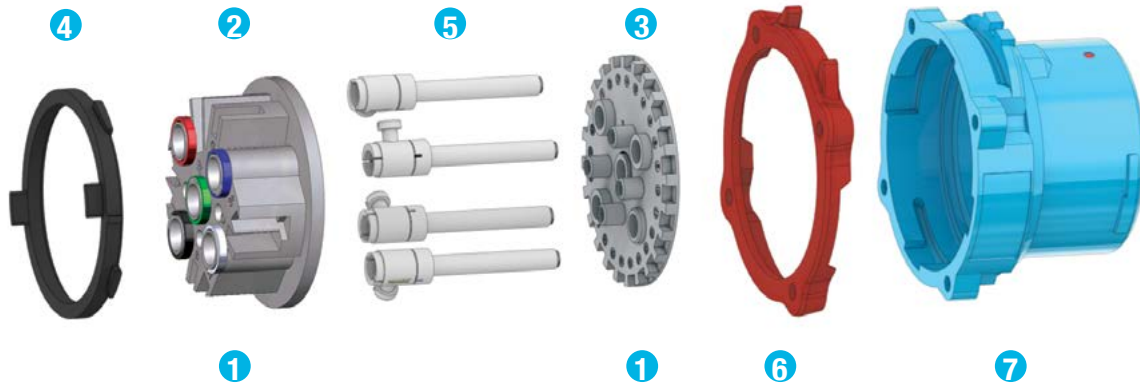
PADLOCKABLE INLET/PLUG CAP			
	DS9MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.	

CORD GRIP with or w/o MESH			
	see pg 165		

EASY RETROFIT ADAPTER PLATES			
	see pg 162	Mount to existing boxes.	

RECEPTACLE LOCKING PIN			
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.	

DSN SPARE PARTS Male Configuration



		DSN20 POLY	DSN30 POLY	DSN60 POLY	DSN150 POLY	DSN150 METAL	
1	Plug Interior***	61-1A010*	61-3A010*	61-6A010*	63-9A010*	67-9A010*	
1	Plug Interior with 2 pilots*	-	61-3A310-972*	61-6A310-972*	63-9A310-262	67-9A310-262*	
2	Interior Bottom***	61-1A010-B	61-3A010-B	61-6A010-B	63-9A551	67-9A551	
3	Interior Top***	61-1A010-T*	61-3A010-T*	61-6A010-T*	63-9A010-T*	67-9A010-T*	
4	Polyester Locking Ring	61-1A583	61-3A583	61-6A583	63-9A583	-	
4	Metal Locking Ring	-	-	-	-	67-9A583	
5	Plug Phase Contact (If no aux. contacts)	61-1A011	61-3A011-380	61-6A011	63-9A011	63-9A011	
5	Plug Phase Contact (If plug has aux. contacts)	61-1A011	61-3A011	61-6A011	63-9A011	63-9A011	
5	Plug Ground Contact	61-1A019	61-3A019	61-6A019	63-9A019	63-9A019	
6	Color-Coded Voltage Gasket	125V	61-1AC26	61-3AC26	61-6AC26	31-9AC26	39-2AC26
		208V	61-1AB26	61-3AB26	61-6AB26	31-9AB26	39-2AB26
		250V	61-1AC26	61-3AC26	61-6AC26	31-9AC26	39-2AC26
		480V	61-1AR26	61-3AR26	61-6AR26	31-9AR26	39-2AR26
		600V	61-1AN26	61-3AN26	61-6AN26	31-9AN26	39-2AN26
7	Plug Polyester Casing	61-1A014**	61-3A014**	61-6A014**	63-9A014**	-	
7	Plug Metal Casing	-	-	-	-	67-9A014	

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

*** For interiors with pilot contacts, contact Customer Service for part numbers.

+ For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

DSN SPARE PARTS Female Configuration



		DSN20 POLY	DSN30 POLY	DSN60 POLY	DSN150 POLY	DSN150 METAL
1	Receptacle Interior***	61-1A020*	61-3A020*	61-6A020*	63-9A020*	67-9A020*
	Receptacle Interior with 2 pilots*	61-1A020-972	61-3A320-972*	61-6A320-972*	63-9A320-262*	67-9A320-262*
2	Interior Bottom***	61-1A020-B	61-3A020-B	61-6A020-B	63-9A552	67-9A552
3	Interior Top***	61-1A020-T*	61-3A020-T*	61-6A020-T*	63-9A020-T*	67-9A020-T*
4	Polyester Locking Ring	61-1A583	65-3A583	61-6A583	63-9A583	-
4	Metal Locking Ring	-	-	-	-	67-9A583
5	Receptacle Phase Contact (If no aux. contacts)	61-1A021	61-3A021-380	61-6A021	63-9A021	63-9A021
5	Receptacle Phase Contact (If plug has aux. contacts)	61-1A021	61-3A021	61-6A021	63-9A021	63-9A021
5	Receptacle Ground Contact	61-1A029	61-3A029	61-6A029	63-9A029	67-9A029
6	Color-Coded Voltage Gasket	125V	61-1AC26	61-3AC26	61-6AC26	31-9AC26
		208V	61-1AB26	61-3AB26	61-6AB26	31-9AB26
		250V	61-1AC26	61-3AC26	61-6AC26	31-9AC26
		480V	61-1AR26	61-3AR26	61-6AR26	31-9AR26
		600V	61-1AN26	61-3AN26	61-6AN26	31-9AN26
7	Receptacle Polyester Casing	61-1A024**	61-3A024**	61-6A024**	63-9A024**	-
7	Receptacle Metal Casing	-	-	-	-	67-9A024
8	Lid Replacement Kit Polyester	61-1A125	61-3A125	61-6A125	63-9A125	-
8	Lid Replacement Kit Metal	-	-	-	-	67-9A925
9	Pawl Replacement Kit Polyester	61-1A824	61-6A824	61-6A824	61-9A824	-
9	Pawl Replacement Kit Metal	69-1A824	69-6A924	69-6A924	69-9A924	67-9A824

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

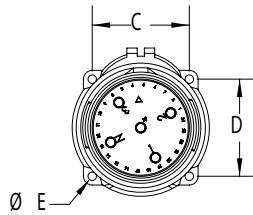
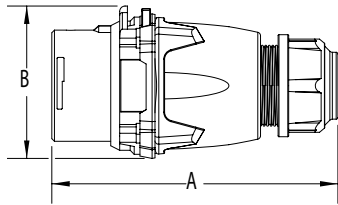
*** For interiors with pilot contacts, contact Customer Service for part numbers.

* For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

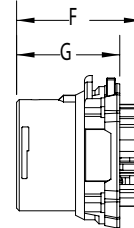
DSN DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug

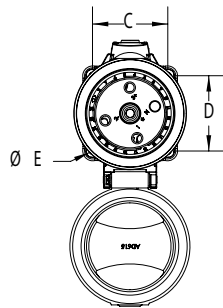
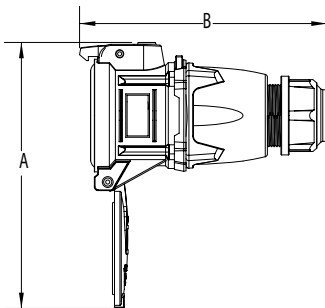


Inlet

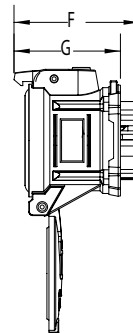


PRODUCT	A	B	C	D	ØE	F	G
DSN20	5.28	2.40	1.65	1.65	0.17	2.46	1.87
DSN30	5.75	2.91	1.89	1.89	0.18	2.56	1.97
DSN60	6.30	3.46	2.17	2.17	0.19	2.8	2.21
DSN150	8.33	4.59	3.20	3.2	0.24	4.14	3.04

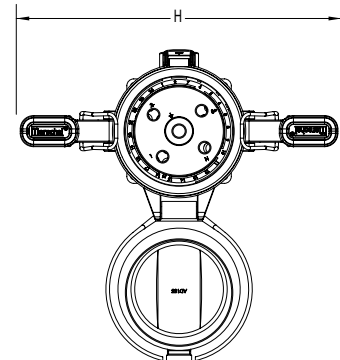
Connector



Receptacle

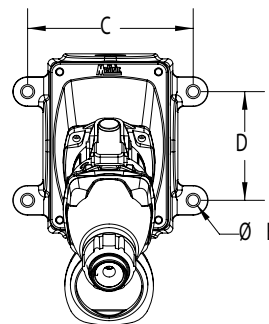
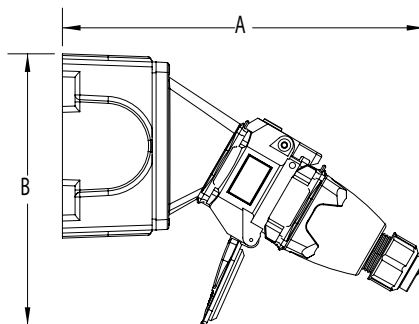


Extended Draw bars



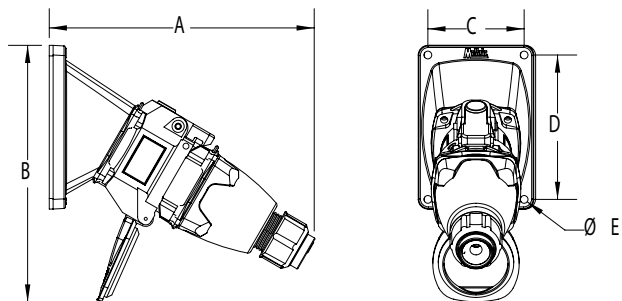
PRODUCT	A	B	C	D	ØE	F	G	H
DSN20	5.26	5.60	1.65	1.65	0.19	3.15	2.10	N/A
DSN30	7.05	6.93	1.89	1.89	0.18	3.53	2.88	N/A
DSN60	7.74	7.22	2.17	2.17	0.2	3.64	3.09	N/A
DSN150	11.04	10.02	3.20	3.2	0.23	5.71	4.74	11.25

Box /30° Angle/ Receptacle/Plug



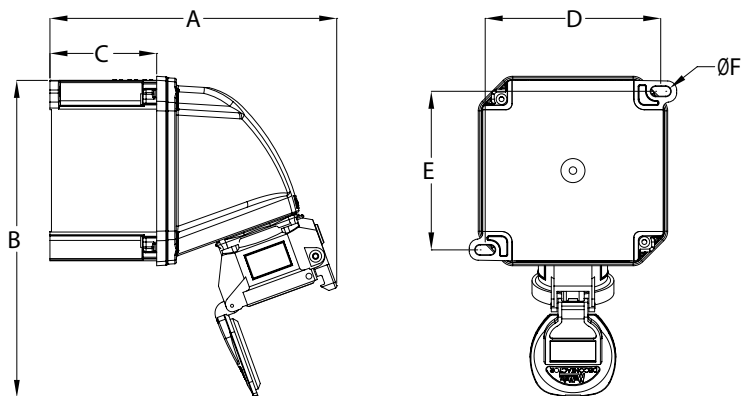
PRODUCT	A	B	C	D	ØE
DSN20	7.80	7.25	4.19	2.75	0.27
DSN30	9.85	7.60	4.19	2.75	0.27
DSN60	10.48	8.20	4.19	2.75	0.27
DSN150	16.06	10.33	6.75	4.25	0.31

30° Angle/Receptacle/Plug



PRODUCT	A	B	C	D	ØE
DSN20	7.80	7.10	2.50	3.75	0.18
DSN30	9.85	8.50	2.50	3.75	0.22
DSN60	10.48	9.02	2.50	3.75	0.22
DSN150	16.06	12.05	4.83	4.83	0.28

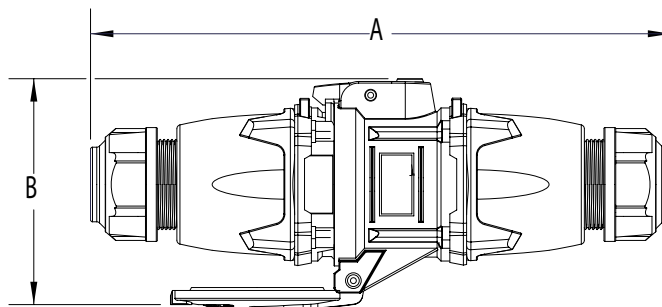
70° Wall Box/Receptacle



PRODUCT	A	B	C	D	E	ØF
DSN20	7.51	8.30	2.80	4.60	4.15	0.26
DSN30	7.93	9.51	2.80	4.60	4.15	0.26
DSN60*	8.91	11.55	2.80	6.17	5.73	0.26

* Box has 4 mounting feet

Plug/Connector



PRODUCT	A	B
DSN20	9.09	3.50
DSN30/DSN24	10.43	4.57
DSN60/DSN37	11.26	4.80
DSN150	19.53	8.03

DS Switch-Rated Plug and Receptacle



Main Advantages

- ▶ Switch & Hp rated (AC only)
- ▶ 65 kA to 100 kA short circuit rated*
- ▶ Up to 6 auxiliary contacts
- ▶ Amperage ratings up to 200 A
- ▶ Metal or Poly construction

* See note under General Ratings on the next page.



Highlighted Advantage



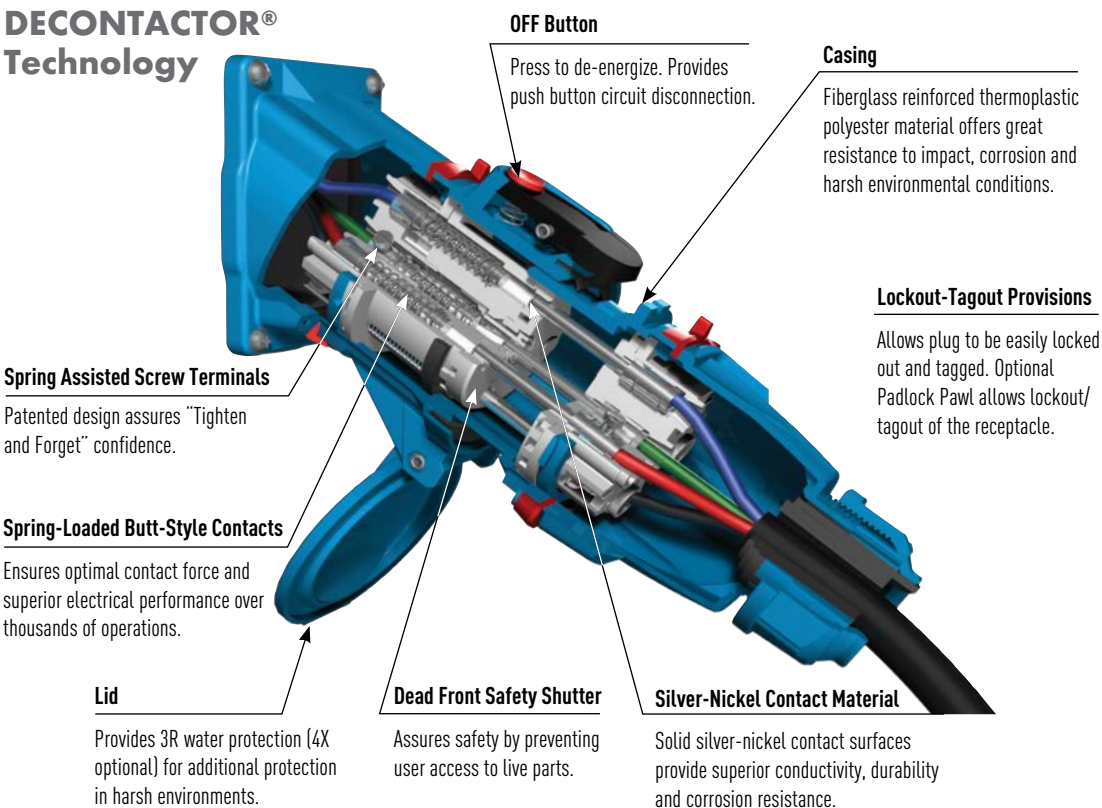
Simplify Compliance to
NFPA 70E & CSA Z462
see pgs 19-20 for
more information



- | | | | |
|------------------------|-------|---------------|-------|
| ▶ Features and Ratings | p. 40 | ▶ DS100 | p. 49 |
| ▶ DS20 | p. 41 | ▶ DS200 | p. 51 |
| ▶ DS30 | p. 43 | ▶ Spare Parts | p. 53 |
| ▶ DS60 | p. 45 | ▶ Dimensions | p. 55 |
| ▶ DS100C | p. 47 | | |

PRODUCT FEATURES

DECONTACTOR® Technology



General Ratings

Amperage	20 to 200 A
Voltage	600 VAC
Frequency	50-400 Hz
Horsepower	3/4 to 100 hp
Short-Circuit (Make & Withstand)	10kA to 100kA*
Environmental	Type 3R, Type 4X optional
Temperature	min -40°F/max 140°F

* DS20, 30, 60 & 100C are rated 100kA. Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity associated with the devices hp rating.

* DS100 and DS200 are rated 65kA. Testing was performed with RK5 time delay fuses sized at 100% of the devices rated ampacity.

Listings

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1
Branch Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23
Motor Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23

CE ratings available upon request.

Operating Instructions



When the plug and receptacle are latched together, the circuit is connected.



Pressing the pawl breaks the connection and opens the circuit. The plug is ejected to its rest position; The contacts are now dead.



Rotating the 'dead' plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.

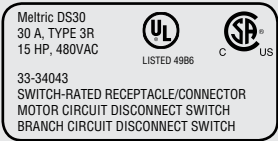


The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

Highlighted Feature

Typical Device Labels



MELTRIC DS Series Switch-Rated devices are UL & CSA rated for "motor circuit" and "branch circuit" disconnect switching – up to 100 hp and up to 200 A.

DS20 Switch-Rated Plugs & Receptacles – 20 A

UL/CSA Ratings

- **Max Amperage & Voltage**
20 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	.75 hp
208V	3Ø	3 hp
240V	3Ø	5 hp
480V	3Ø	7.5 hp
600V	3Ø	10 hp
- **Short Circuit Rating**
100kA Close & Withstand
Tested with RK1 current limiting
fuses sized at 400% of the highest
full load motor ampacity.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
Aux Contact - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	33-14165	33-18165
120 208V	3P+N+G	33-14167	33-18167
125V	1P+N+G	33-14075	33-18075
125 250V	2P+N+G	33-14076	33-18076
208V	2P+G	33-14162	33-18162
208V	3P+G	33-14163	33-18163
250V	2P+G	33-14072	33-18072
250V	3P+G	33-14073	33-18073
277V	1P+N+G	33-14045	33-18045
277 480V	3P+N+G	33-14047	33-18047
347 600V	3P+N+G	33-14147	33-18147
480V	2P+G	33-14042	33-18042
480V	3P+G	33-14043	33-18043
600V	2P+G	33-14142	33-18142
600V	3P+G	33-14143	33-18143

Main Options



**Auxiliary/Pilot
Contacts**



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**

Recommended for cord
applications to keep lid
tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

- With 2 Auxiliary/Pilot Contacts
- Type 4X & Closed Lid Configuration
- Straight Insertion
- Self-Ejecting Connector Release
- Mushroom Pawl
- Padlock Pawl
- Padlockable Mushroom Pawl
- Locking Mushroom Pawl
- Metal Pawl (on Poly Receptacle)
- Closed Lid Configuration
- With Auxiliary Switch

- Recept # - 972**
- Recept # - 4X**
- Recept # - 352**
- Recept # - 354**
- Recept # - 375**
- Recept # - 843**
- Recept # - 375-843**
- Recept # - 845**
- Recept # - 824**
- Recept # - NC**
- Recept # - 270+**

- With 2 Auxiliary/Pilot Contacts
- Type 4X Watertightness
- Self-Ejecting Plug Release
- With No Lockout Hole
- For Auxiliary Switch

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

Notes: + Not UL/CSA listed.

! See pages 233-242 for detailed information on these options

Order Example: 208V DS20 + 2 auxiliary contacts
DS20 Poly inlet 2P+G = 33-18162-972

INSTALLATION ACCESSORIES – SIZE 2

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT	Part # Poly	Part # Metal
 Poly 1/2"	512P0N05	592P0N05
3/4"	512P0N07	592P0N07
1"	512P0N10	592P0N10
1 1/4"	512P0N12	-

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	712P0BP6
	.520 - .680"	712P0CP5
	.680 - .980"	712P0DP4
	.980 - 1.260"	712P0EP4

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.438 - .500"	792P0BS3
	.500 - .562"	792P0BS4
	.562 - .625"	792P0CS2
	.625 - .750"	792P0CS4
	.750 - .875"	792P0DS1
	.875 - 1.000"	792P0DS3

POLY HANDLE	Cable Range	Part #
	.20 - .83"	512P0D21

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	.750 - .875"	712P0S14
	.875 - 1.000"	712P0S16
	1.000 - 1.125"	712P0S18
	1.125 - 1.250"	712P0S20
	1.250 - 1.375"	712P0S22

ANGLES

POLY ANGLE	Angle	Part #
	30°	512M3

	70°	512M7
---	-----	--------------

METAL ANGLE	Angle	Part #
	0°	592M0

	30°	592M3
---	-----	--------------

	FS/FD Box 30°	792M3FS	* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.
---	---------------	----------------	--

BOXES

POLY CONDUIT ENTRY w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	512B3N05	For poly devices only
	30°	3/4"	512B3N07	* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE	Angle	Part #	Notes
-----------------------	-------	--------	-------

	70°	512C7000	70° poly boxes are not drilled. Contact customer service if factory drilling is required.
---	-----	-----------------	---

	Ground Bar	51AA089	* Interior volume with receptacle installed.
---	------------	----------------	--

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
---------------------------------	-------	------	--------	-------

	70°	1/2"	712C7N05	* Interior volume with receptacle installed.
	70°	3/4"	712C7N07	
	70°	1"	712C7N10	
	70°	1 1/4"	712C7N12	
	70°	1 1/2"	712C7N15	

METAL BOX w/NPT	Angle	Size	Part #
-----------------	-------	------	--------

	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
---------------------------------	-------	------	--------	-------

	30°	1/2"	712C3N05	* Interior volume with receptacle installed.
	30°	3/4"	712C3N07	
	30°	1"	712C3N10	
	30°	1 1/4"	712C3N12	

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES	Part #	Notes
	61-3A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	Part #	Notes
---------------------------	--------	-------

	31-1A426	For Inlets/Plugs Only.
---	-----------------	------------------------

PADLOCKABLE INLET/PLUG CAP	Part #	Notes
----------------------------	--------	-------

	DS1PC	For Inlets/Plugs Only.
---	--------------	------------------------

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	Part #	Notes
--	--------	-------

	31-1A226	For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
---	-----------------	---

EASY RETROFIT ADAPTER PLATES	Part #	Notes
------------------------------	--------	-------

	see pg 162	Mount to existing boxes.
---	------------	--------------------------

RECEPTACLE LOCKING PIN	Part #	Notes
------------------------	--------	-------

	LP-843	Requires Padlockable Pawl option (-843) on receptacle.
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DS30 Switch-Rated Plugs & Receptacles – 30 A

UL/CSA Ratings

- **Max Amperage & Voltage**
30 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	1 1/2 hp
240V	1Ø	3 hp
208V	3Ø	5 hp
240V	3Ø	5 hp
480V	3Ø	15 hp
600V	3Ø	15 hp
- **Short Circuit Rating**
100kA Close & Withstand
Tested with RK1 current limiting
fuses sized at 400% of the highest
full load motor ampacity.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 12 AWG Max 4 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	33-34165	33-38165
120 208V	3P+N+G	33-34167	33-38167
125V	1P+N+G	33-34075	33-38075
125 250V	2P+N+G	33-34076	33-38076
208V	2P+G	33-34162	33-38162
208V	3P+G	33-34163	33-38163
250V	2P+G	33-34072	33-38072
250V	3P+G	33-34073	33-38073
277V	1P+N+G	33-34045	33-38045
277 480V	3P+N+G	33-34047	33-38047
347 600V	3P+N+G	33-34147	33-38147
480V	2P+G	33-34042	33-38042
480V	3P+G	33-34043	33-38043
600V	2P+G	33-34142	33-38142
600V	3P+G	33-34143	33-38143

Main Options



**Auxiliary/Pilot
Contacts**



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**

Recommended for cord
applications to keep lid
tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 973

With 3 Auxiliary/Pilot Contacts

Inlet # - 973

With 4 Auxiliary/Pilot Contacts

Recept # - 974

With 4 Auxiliary/Pilot Contacts

Inlet # - 974

Type 4X & Closed Lid Configuration

Recept # - 4X

Type 4X Watertightness

Inlet # - 4X

Straight Insertion

Recept # - 352

Self-Ejecting Plug Release

Inlet # - 338

Self-Ejecting Connector Release

Recept # - 354

With No Lockout Hole

Inlet # - A155

Mushroom Pawl

Recept # - 375

For Auxiliary Switch

Inlet # - NNF*

Padlock Pawl

Recept # - 843

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

Padlockable Mushroom Pawl

Recept # - 375-843

Locking Mushroom Pawl

Recept # - 845

Metal Pawl (on Poly Receptacle)

Recept # - 824

Closed Lid Configuration

Recept # - NC

With Auxiliary Switch

Recept # - 270+

Notes: + Not UL/CSA listed.

Order Example: 480V DS30 + 2 auxiliary contacts

DS30 Poly inlet 3P+G = 33-38043-972

! See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 3

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	513P0N05	593P0N05
	3/4"	513P0N07	593P0N07
	1"	513P0N10	593P0N10
	1 1/4"	513P0N12	593P0N12

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.520 - .680"	713P0CP5
	.680 - .980"	713P0DP4
	.980 - 1.260"	713P0EP4

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.625 - .750"	793P0CS4
	.750 - .875"	793P0DS1
	.875 - 1.000"	793P0DS3
	1.000 - 1.125"	793P0ES2

POLY HANDLE	Cable Range	Part #
	.39 - 1.18"	513P0D30

POLY HANDLE w/BUILT IN DRAW GRIPS	Cable Range	Part #
	.39 - 1.18"	513P0D30473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	.750 - .875"	713P0S14
	.875 - 1.000"	713P0S16
	1.000 - 1.125"	713P0S18
	1.125 - 1.250"	713P0S20
	1.250 - 1.375"	713P0S22

ANGLES

POLY ANGLE		
	30°	513M3

	70°	513M7
---	-----	-------

METAL ANGLE		
	0°	593M0

	30°	593M3
---	-----	-------

	FS/FD Box 30°	793M3FS
---	---------------	---------

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

	70°	593M7
---	-----	-------

BOXES

POLY CONDUIT ENTRY w/NPT				Part #
	30°	1/2"		513B3N05
	30°	3/4"		513B3N07
	30°	1"		513B3N10

* 13.5 in³

POLY WALL BOX w/ANGLE				Part #
	70°			513C7000

* 179.41 in³

	Ground Bar	51AA089
---	------------	---------

* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT				Part #
	70°	1/2"		713C7N05
	70°	3/4"		713C7N07
	70°	1"		713C7N10
	70°	1 1/4"		713C7N12
	70°	1 1/2"		713C7N15

* 177.7 in³

METAL BOX w/NPT				Part #
	0°	1/2"		7T1F0N05
	0°	3/4"		7T1F0N07
	0°	1"		7T1F0N10
	0°	1 1/4"		7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT				Part #
	30°	1/2"		713C3N05
	30°	3/4"		713C3N07
	30°	1"		713C3N10
	30°	1 1/4"		713C3N12

* 29.6 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-3A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS3PC	For Inlets/Plugs Only.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	31-3A226	For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DS60 Switch-Rated Plugs & Receptacles – 60 A

UL/CSA Ratings

- **Max Amperage & Voltage**
60 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	3 hp
240V	1Ø	5 hp
208V	3Ø	10 hp
240V	3Ø	10 hp
480V	3Ø	25 hp
600V	3Ø	25 hp
- **Short Circuit Rating**
100kA Close & Withstand
Tested with RK1 current limiting
fuses sized at 400% of the highest
full load motor ampacity.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 10 AWG Max 2 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	33-64165	37-64165	33-68165	37-68165
120 208V	3P+N+G	33-64167	37-64167	33-68167	37-68167
125V	1P+N+G	33-64075	37-64075	33-68075	37-68075
125 250V	2P+N+G	33-64076	37-64076	33-68076	37-68076
208V	2P+G	33-64162	37-64162	33-68162	37-68162
208V	3P+G	33-64163	37-64163	33-68163	37-68163
250V	2P+G	33-64072	37-64072	33-68072	37-68072
250V	3P+G	33-64073	37-64073	33-68073	37-68073
277V	1P+N+G	33-64045	37-64045	33-68045	37-68045
277 480V	3P+N+G	33-64047	37-64047	33-68047	37-68047
347 600V	3P+N+G	33-64147	37-64147	33-68147	37-68147
480V	2P+G	33-64042	37-64042	33-68042	37-68042
480V	3P+G	33-64043	37-64043	33-68043	37-68043
600V	2P+G	33-64142	37-64142	33-68142	37-68142
600V	3P+G	33-64143	37-64143	33-68143	37-68143

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration
Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- Type 4X & Closed Lid Configuration
- Straight Insertion
- Self-Ejecting Connector Release
- Mushroom Pawl
- Padlock Pawl
- Padlockable Mushroom Pawl
- Locking Mushroom Pawl
- Metal Pawl (on Poly Receptacle)
- Closed Lid Configuration
- With Auxiliary Switch
- 180° Opening Lid (metal only)

- Recept # - 972**
- Recept # - 263**
- Recept # - 264**
- Recept # - 4X**
- Recept # - 352**
- Recept # - 354**
- Recept # - 375**
- Recept # - 843**
- Recept # - 375-843**
- Recept # - 845**
- Recept # - 824**
- Recept # - NC**
- Recept # - 270+**
- Recept # - 180++**

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- Type 4X Watertightness
- Self-Ejecting Plug Release
- With No Lockout Hole
- For Auxiliary Switch

- Inlet # - 972**
- Inlet # - 263**
- Inlet # - 264**
- Inlet # - 4X**
- Inlet # - 338**
- Inlet # - A155**
- Inlet # - NNF***

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

! See pages 233-242 for detailed information on these options

Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.

Order Example: 480V DS60 + 2 auxiliary contacts
DS60 Poly inlet 3P+G = 33-68043-972

INSTALLATION ACCESSORIES – SIZE 4

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT	Part # Poly	Part # Metal
	1/2" 514P0N05	594P0N05
	3/4" 514P0N07	594P0N07
	1" 514P0N10	594P0N10
	1 1/4" 514P0N12	594P0N12
For metal devices only	1 1/2" 514P0N15	594P0N15

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	714P0DP4
	.980 - 1.260"	714P0EP4
	1.260 - 1.560"	714P0FP1

METAL HANDLE w/CORD GRIP		
	.750 - .875"	794P0DS1
	.875 - 1.000"	794P0DS3
	1.000 - 1.125"	794P0ES2
	1.250 - 1.375"	794P0FS1
For metal devices only	1.438 - 1.562"	794P0FS2*
	1.562 - 1.688"	794P0FS3*

*May require stripping of cable jacket.

POLY HANDLE		
	.51 - 1.38"	514P0D35

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.51 - 1.38"	514P0D35473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	714P0S22
	1.438 - 1.562"	714P0S25
	1.562 - 1.688"	714P0S27
	1.688 - 1.812"	714P0S29

ANGLES

POLY ANGLE					
	30°	514M3		70°	514M7

METAL ANGLE		
	0°	594M0
	30°	594M3
	30°	794M3L
	Oversized 30°	794M3 Mounts on oversize box only. Order with 7T5F0Nxx. See pg 50.
	70°	594M7

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
	30°	1/2"	514B3N05	For poly devices only
	30°	3/4"	514B3N07	
	30°	1"	514B3N10	* Interior volume with receptacle installed.
* 27.7 in ³	30°	1 1/4"	514B3N12	

POLY WALL BOX w/ANGLE			
	70°		514C7000

* 181.24 in³

	Ground Bar	51AA089	70° poly boxes are not drilled. Contact customer service if factory drilling is required. * Interior volume with receptacle installed.
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POLY ANGLE WITH METAL BOX w/NPT				
	70°	1/2"	714C7N05	
	70°	3/4"	714C7N07	
	70°	1"	714C7N10	* Interior volume with receptacle installed.
* 177.7 in ³	70°	1 1/4"	714C7N12	
	70°	1 1/2"	714C7N15	

METAL BOX w/NPT			
	0°	1"	7T4F0N10
	0°	1 1/4"	7T4F0N12
	0°	1 1/2"	7T4F0N15
	0°	2"	7T4F0N20

POLY ANGLE WITH METAL BOX w/NPT				
	30°	1"	714C3N10	For metal angle, replace "71" prefix with "79".
	30°	1 1/4"	714C3N12	
	30°	1 1/2"	714C3N15	
* 61.0 in ³ Poly Angle	30°	2"	714C3N20	* Interior volume with receptacle installed.
* 59.4 in ³ Metal Angle				

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS6PC	Poly – For Inlets/Plugs Only.
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP			
	31-6A226	For Poly Inlets/Plugs Only.	-A155 suffix required to maintain water ingress protection.
	39-6A226	For Metal Inlets/Plugs Only.	

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DS100C Switch-Rated Plugs & Receptacles – 100 A

UL/CSA Ratings

- **Max Amperage & Voltage**
100 A, 600 VAC
- **Switch-Ratings (AC Only)**
Branch Circuit & Motor Circuit
Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	5 hp
240V	1Ø	10 hp
208V	3Ø	20 hp
240V	3Ø	20 hp
480V	3Ø	50 hp
600V	3Ø	50 hp
- **Short Circuit Rating**
100kA Close & Withstand
Tested with RK1 current limiting
fuses sized at 400% of the highest
full load motor ampacity.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 10 AWG Max 2 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	33-64235-C-K16	37-64235-C-K16	33-68235-C-K16	37-68235-C-K16
120 208V	3P+N+G	33-64237-C-K16	37-64237-C-K16	33-68237-C-K16	37-68237-C-K16
125V	1P+N+G	33-64175-C-K07	37-64175-C-K07	33-68175-C-K07	37-68175-C-K07
125 250V	2P+N+G	33-64176-C-K07	37-64176-C-K07	33-68176-C-K07	37-68176-C-K07
208V	2P+G	33-64232-C-K16	37-64232-C-K16	33-68232-C-K16	37-68232-C-K16
208V	3P+G	33-64233-C-K16	37-64233-C-K16	33-68233-C-K16	37-68233-C-K16
250V	2P+G	33-64172-C-K07	37-64172-C-K07	33-68172-C-K07	37-68172-C-K07
250V	3P+G	33-64173-C-K07	37-64173-C-K07	33-68173-C-K07	37-68173-C-K07
277V	1P+N+G	33-64245-C-K04	37-64245-C-K04	33-68245-C-K04	37-68245-C-K04
277 480V	3P+N+G	33-64247-C-K04	37-64247-C-K04	33-68247-C-K04	37-68247-C-K04
347 600V	3P+N+G	33-64187-C-K14	37-64187-C-K14	33-68187-C-K14	37-68187-C-K14
480V	2P+G	33-64242-C-K04	37-64242-C-K04	33-68242-C-K04	37-68242-C-K04
480V	3P+G	33-64243-C-K04	37-64243-C-K04	33-68243-C-K04	37-68243-C-K04
600V	2P+G	33-64182-C-K14	37-64182-C-K14	33-68182-C-K14	37-68182-C-K14
600V	3P+G	33-64183-C-K14	37-64183-C-K14	33-68183-C-K14	37-68183-C-K14

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 263

With 4 Auxiliary/Pilot Contacts

Recept # - 264

Type 4X & Closed Lid Configuration

Recept # - 4X

Straight Insertion

Recept # - 352

Self-Ejecting Connector Release

Recept # - 354

Mushroom Pawl

Recept # - 375

Padlock Pawl

Recept # - 843

Padlockable Mushroom Pawl

Recept # - 375-843

Locking Mushroom Pawl

Recept # - 845

Metal Pawl (on Poly Receptacle)

Recept # - 824

Closed Lid Configuration

Recept # - NC

With Auxiliary Switch

Recept # - 270+

180° Opening Lid (metal only)

Recept # - 180++

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Inlet # - 263

With 4 Auxiliary/Pilot Contacts

Inlet # - 264

Type 4X Watertightness

Inlet # - 4X

Self-Ejecting Plug Release

Inlet # - 338

With No Lockout Hole

Inlet # - A155

For Auxiliary Switch

Inlet # - NNF*

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

! See pages 233-242 for detailed information on these options

Notes: * Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.

Order Example: 480V DS100C + 2 auxiliary contacts
DS100C Poly inlet 3P+G = 33-68243-C-K04-972

INSTALLATION ACCESSORIES – SIZE 4

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	514P0N05	594P0N05
	3/4"	514P0N07	594P0N07
	1"	514P0N10	594P0N10
	1 1/4"	514P0N12	594P0N12
	1 1/2"	514P0N15	594P0N15

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	714P0DP4
	.980 - 1.260"	714P0EP4
	1.260 - 1.560"	714P0FP1

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.750 - .875"	794P0DS1
	.875 - 1.000"	794P0DS3
	1.000 - 1.125"	794P0ES2
	1.250 - 1.375"	794P0FS1
	1.438 - 1.562"	794P0FS2*
	1.562 - 1.688"	794P0FS3*

*May require stripping of cable jacket.

POLY HANDLE	Cable Range	Part #
	.51 - 1.38"	514P0D35

POLY HANDLE w/BUILT IN DRAW GRIPS	Cable Range	Part #
	.51 - 1.38"	514P0D35473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	1.250 - 1.375"	714P0S22
	1.438 - 1.562"	714P0S25
	1.562 - 1.688"	714P0S27
	1.688 - 1.812"	714P0S29

ANGLES

POLY ANGLE					
	30°	514M3		70°	514M7
METAL ANGLE					
	0°	594M0			
	30°	594M3			
	30°	794M3L			
	Oversized 30°	794M3	Mounts on oversize box only. Order with 7T5F0Nxx. See pg 50.		
	70°	594M7			

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
	30°	1/2"	514B3N05	For poly devices only
	30°	3/4"	514B3N07	
	30°	1"	514B3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	514B3N12	

POLY WALL BOX w/ANGLE			Part #	
	70°		514C7000	70° poly boxes are not drilled. Contact customer service if factory drilling is required.
		Ground Bar	51AA089	* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	714C7N05
	70°	3/4"	714C7N07
	70°	1"	714C7N10
	70°	1 1/4"	714C7N12
	70°	1 1/2"	714C7N15

METAL BOX w/NPT			
	0°	1"	7T4F0N10
	0°	1 1/4"	7T4F0N12
	0°	1 1/2"	7T4F0N15
	0°	2"	7T4F0N20

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1"	714C3N10
	30°	1 1/4"	714C3N12
	30°	1 1/2"	714C3N15
	30°	2"	714C3N20

* 61.0 in³ Poly Angle
* 59.4 in³ Metal Angle

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS6PC	Poly – For Inlets/Plugs Only.
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	31-6A226	For Poly Inlets/Plugs Only.
	39-6A226	For Metal Inlets/Plugs Only.

-A155 suffix required to maintain water ingress protection.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DS100 Switch-Rated Plugs & Receptacles – 100 A

UL/CSA Ratings

- **Max Amperage & Voltage**
100 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	3 hp
240V	1Ø	7.5 hp
208V	3Ø	10 hp
240V	3Ø	10 hp
480V	3Ø	30 hp
- **Short Circuit Rating**
65kA Close & Withstand
Testing was performed with RK5 time delay fuses sized at 100% of the devices rated ampacity. Alternate testing was performed with 175 A RK1 non-time delay Mersen fuses.
- **Environmental Ratings**
Type 4X (Poly Standard)
Type 3R (Metal Standard)
Type 4X (Metal Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 4 AWG Max 2/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)

Easy Closing Mechanism



If you have an existing removable and/or permanently attached drawbar, contact customer service.



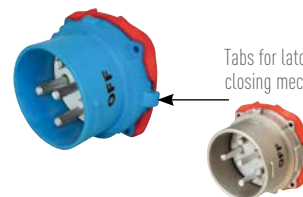
Don't forget to add installation accessories to your order



Poly casing opens to 180° while the metal casing opens only 90°.

Inlet (male)

Tabs for latching to closing mechanism



North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	33-94165	37-94165	33-98165	37-98165
120 208V	3P+N+G	33-94167	37-94167	33-98167	37-98167
125V	1P+N+G	33-94075	37-94075	33-98075	37-98075
125 250V	2P+N+G	33-94076	37-94076	33-98076	37-98076
208V	2P+G	33-94162	37-94162	33-98162	37-98162
208V	3P+G	33-94163	37-94163	33-98163	37-98163
250V	2P+G	33-94072	37-94072	33-98072	37-98072
250V	3P+G	33-94073	37-94073	33-98073	37-98073
277V	1P+N+G	33-94045	37-94045	33-98045	37-98045
277 480V	3P+N+G	33-94047	37-94047	33-98047	37-98047
347 600V	3P+N+G	33-94147	37-94147	33-98147	37-98147
480V	2P+G	33-94042	37-94042	33-98042	37-98042
480V	3P+G	33-94043	37-94043	33-98043	37-98043
600V	2P+G	33-94142	37-94142	33-98142	37-98142
600V	3P+G	33-94143	37-94143	33-98143	37-98143

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- With 5 Auxiliary/Pilot Contacts
- With 6 Auxiliary/Pilot Contacts
- Type 4X & Closed Lid Configuration
- Straight Insertion
- Self-Ejecting Connector Release
- Mushroom Pawl
- Padlock Pawl
- Padlockable Mushroom Pawl
- Locking Mushroom Pawl
- Metal Pawl (on Poly Receptacle)
- 180° Opening Lid (metal only)
- Closed Lid Configuration
- With Auxiliary Switch

- Recept # - 262
- Recept # - 263
- Recept # - 264
- Recept # - 975
- Recept # - 976
- Recept # - 4Xⁱ
- Recept # - 352
- Recept # - 354
- Recept # - 375
- Recept # - 843
- Recept # - 375-843
- Recept # - 845
- Recept # - 824
- Recept # - 180++
- Recept # - NC
- Recept # - 270+

- With 2 Auxiliary/Pilot Contacts
- With 3 Auxiliary/Pilot Contacts
- With 4 Auxiliary/Pilot Contacts
- With 5 Auxiliary/Pilot Contacts
- With 6 Auxiliary/Pilot Contacts
- Type 4X Watertightness
- Self-Ejecting Plug Release
- With No Lockout Hole
- For Auxiliary Switch

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.
i Metal devices only.



See pages 233-242 for detailed information on these options

Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.
i Metal devices only.

Order Example: 480V DS100 + 2 auxiliary contacts
DS100 Poly inlet 3P+G = 33-98043-262

INSTALLATION ACCESSORIES – SIZE 5

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	3/4"	515P0N07	595P0N07
	1"	515P0N10	595P0N10
	1 1/4"	515P0N12	595P0N12
	1 1/2"	515P0N15	595P0N15
	2"	515P0N20	595P0N20

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.980 - 1.260"	715P0EP4
	1.260 - 1.560"	715P0FP1
	1.520 - 1.860"	715P0GP2

METAL HANDLE w/CORD GRIP		
	1.250 - 1.375"	795P0FS1
	1.438 - 1.562"	795P0FS2*
	1.562 - 1.688"	795P0FS3*
	1.688 - 1.812"	795P0GS1
	*May require stripping of cable jacket.	

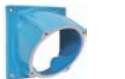
METAL OVERSIZED HANDLE w/NPT		
	3/4"	795P0N07
	1"	795P0N10
	1 1/4"	795P0N12
	1 1/2"	795P0N15
	2"	795P0N20
	2 1/2"	795P0N25

For available cord grips, see page 165.

SANTOPRENE HANDLE		
	.70 - 1.000"	555P0D25
	.984 - 1.377"	555P0D35
	1.378 - 1.771"	555P0D45

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	715P0S22
	1.438 - 1.562"	715P0S25
	1.562 - 1.688"	715P0S27
	1.688 - 1.812"	715P0S29

ANGLES

POLY ANGLE		
	30°	515M3
METAL ANGLE		
	0°	595M0
	30°	595M3
	Oversized 30°	795M3
		Mounts on oversize box only. Order with 7T6F0N25XL. See pg 52.
	70°	595M7

BOXES

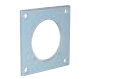
POLY ANGLE WITH METAL BOX w/NPT			Part #	
	30°	1 1/4"	715C3N12	* Interior volume with receptacle installed.
	30°	1 1/2"	715C3N15	
	30°	2"	715C3N20	
* 108.7 in ³	30°	2 1/2"	715C3N25	

METAL ANGLE WITH METAL BOX w/NPT				
	30°	1 1/4"	795C3N12	* Interior volume with receptacle installed.
	30°	1 1/2"	795C3N15	
	30°	2"	795C3N20	
* 111.8 in ³	30°	2 1/2"	795C3N25	

METAL BOX w/NPT			
	0°	1 1/4"	7T5F0N12
	0°	1 1/2"	7T5F0N15
	0°	2"	7T5F0N20
	0°	2 1/2"	7T5F0N25

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	31-9A426	For Inlets/Plugs Only. Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability.
PADLOCKABLE INLET/PLUG CAP		
	DS9MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
CORD GRIP with MESH		
	see pg 165	
EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.
RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DS200 Switch-Rated Plugs & Receptacles – 200 A

UL/CSA Ratings

- **Max Amperage & Voltage**
200 A, 600 VAC
- **Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit Disconnect Switching
- **Horsepower Ratings**

208V	3Ø	40 hp
240V	3Ø	40 hp
480V	3Ø	100 hp
600V	3Ø	100 hp
- **Short Circuit Rating**
65kA Close & Withstand
Testing was performed with RK5 time delay fuses sized at 100% of the devices rated ampacity.

10kA Close & Withstand
Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 4 AWG Max 4/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)

Inlet (male)



North American UL/CSA Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	37-24165	37-28165
120 208V	3P+N+G	37-24167	37-28167
125V	1P+N+G	37-24075	37-28075
125 250V	2P+N+G	37-24076	37-28076
208V	2P+G	37-24162	37-28162
208V	3P+G	37-24163	37-28163
250V	2P+G	37-24072	37-28072
250V	3P+G	37-24073	37-28073
277V	1P+N+G	37-24045	37-28045
277 480V	3P+N+G	37-24047	37-28047
347 600V	3P+N+G	37-24147	37-28147
480V	2P+G	37-24042	37-28042
480V	3P+G	37-24043	37-28043
600V	2P+G	37-24142	37-28142
600V	3P+G	37-24143	37-28143

Main Options



Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # - 972*	With 2 Auxiliary/Pilot Contacts	Inlet # - 972*
With 4 Auxiliary/Pilot Contacts	Recept # - 174+	With 4 Auxiliary/Pilot Contacts	Inlet # - 174+
With 6 Auxiliary/Pilot Contacts	Recept # - 976+	With 6 Auxiliary/Pilot Contacts	Inlet # - 976+
Type 4X & Closed Lid Configuration	Recept # - 4X	Type 4X Watertightness	Inlet # - 4X
Straight Insertion	Recept # - A188++	Self-Ejecting Plug Release	Inlet # - 338-A188++
Mushroom Pawl	Recept # - 375	For Auxiliary Switch	Inlet # - NNF**
Padlock Pawl	Recept # - 843	With No Lockout Hole	Inlet # - A155
Padlockable Mushroom Pawl	Recept # - 375-843		
Locking Mushroom Pawl	Recept # - 845		
180° Opening Lid	Recept # - 180+++		
Closed Lid Configuration	Recept # - NC		
With Auxiliary Switch	Recept # - 270++		

Notes:

- * Customers needing to maintain compatibility with old style -172 auxiliary contacts should use a -172 suffix.
- + This option not available with N contact.
- ++ Not UL/CSA listed.
- +++ Required when mating to rigid mounted male inlet.

Notes:

- * Customers needing to maintain compatibility with old style -172 auxiliary contacts should use a -172 suffix.
- ** Order inlet with P+N+G configuration and receptacle with P+G configuration.
- + This option not available with N contact.
- ++ Not UL/CSA listed.

Order Example: 480V DS200 + 2 auxiliary contacts
DS200 Metal inlet 3P+G = 37-28043-972

INSTALLATION ACCESSORIES – SIZE 6

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
 Poly	1"	516P0N10	596P0N10
	1 1/4"	516P0N12	596P0N12
	1 1/2"	516P0N15	596P0N15
 Metal	2"	516P0N20	596P0N20
	2 1/2"	516P0N25	596P0N25
	For metal devices only 3"	-	596P0N30

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	1.520 - 1.860"	716P0GP2
	1.850 - 2.190"	716P0GP3*

*May require stripping of cable jacket.

METAL HANDLE w/CORD GRIP		
	1.688 - 1.812"	796P0GS1
	1.812 - 1.938"	796P0GS2*
	1.938 - 2.062"	796P0JS1
	2.062 - 2.188"	796P0JS2
	2.188 - 2.312"	796P0JS3
	2.312 - 2.438"	796P0JS4*
	2.437 - 2.625"	796P0KS1
	2.625 - 2.812"	796P0KS2

*May require stripping of cable jacket.

METAL OVERSIZED HANDLE w/NPT		
	1 1/2"	597P0N12
	2"	597P0N15
	2 1/2"	597P0N20
For metal devices only	3"	597P0N25
	3"	597P0N30

For available cord grips, see page 165.

SANTOPRENE HANDLE		
	.984 - 1.378"	556P0D35
	1.378 - 1.772"	556P0D45
	1.772 - 1.929"	556P0D49

IP66/IP67

ANGLES

METAL ANGLE		
	0°	596M0
	Oversized 45°	796M4 Mounts on oversize metal box only. Order with 7T6F0N25XL.
	60°	596M6
	Extended 60°	597M6

BOXES

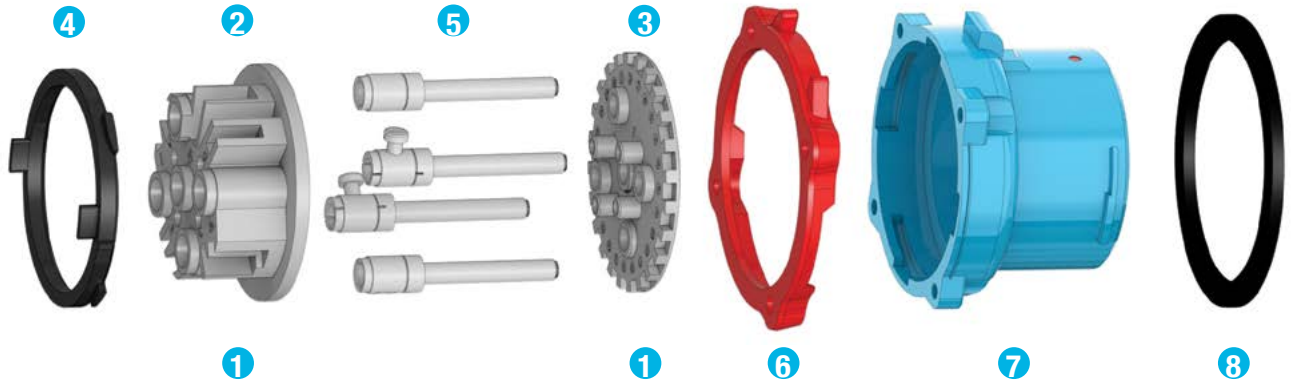
METAL ANGLE WITH METAL BOX w/NPT			Part #	
	60°	1 1/2"	796C6N15	* Interior volume with receptacle installed.
	60°	2"	796C6N20	
* 248.4 in ³	60°	2 1/2"	796C6N25	
METAL BOX w/NPT				
	0°	1 1/2"	7T6F0N15	* Interior volume with receptacle installed.
	0°	2"	7T6F0N20	
	0°	2 1/2"	7T6F0N25	
METAL OVERSIZED BOX w/NPT				
	0°	2"	7T6F0N20XL	
	0°	2 1/2"	7T6F0N25XL	
	0°	3"	7T6F0N30XL	

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	39-2A426	Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability. For Inlets/Plugs Only.
PADLOCKABLE INLET/PLUG CAP		
	DS2MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
CORD GRIP with MESH		
	see pg 165	
EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.
RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DS SPARE PARTS Male Configuration



	DS20 POLY	DS30 POLY	DS60 POLY	DS60 METAL	DS100C POLY	DS100C METAL	DS100 POLY	DS100 METAL	DS200 METAL
1 Plug Interior***	31-1A010*	31-3A010*	31-6A010*	31-6A010*	31-6A010-C*	31-6A010-C*	61-9A010*	69-9A010*	39-2A010*
1 Plug Interior w/Ground Contacts***	-	-	-	39-6A110*	-	39-6A110-C*	-	69-9A110*	39-2A110*
1 Plug Interior with 2 Pilots+	31-1A310-972*	31-3A310-972*	31-6A310-972*	31-6A310-972*	31-6A310-C-972*	31-6A310-C-972*	31-6A310-C-972*	61-9A310-262*	39-2A310-972*
2 Interior Bottom***	31-1A010-B	31-3A010-B	31-6A010-B	31-6A010-B	31-6A010-C-B	31-6A010-C-B	61-9A551	69-9A551	39-2A010-B
3 Interior Top***	31-1A010-T*	31-3A010-T*	31-6A010-T*	31-6A010-T*	31-6A010-C-T*	31-6A010-C-T*	61-9A010-T*	69-9A010-T*	39-2A010-T*
4 Polyester Locking Ring	31-1A583	31-3A583	31-6A583	-	31-6A583	-	31-9A583	-	-
4 Metal Locking Ring	-	-	-	39-6A583	-	39-6A583	-	39-9A583	39-2A583
5 Plug Phase Contact (If no aux. contacts)	31-1A011-380	31-3A011-380	31-6A011	31-6A011	31-6A011-C	31-6A011-C	61-9A011	61-9A011	39-2A011
5 Plug Phase Contact (If plug has aux. contacts)	31-1A011	31-3A011-380	31-6A011	31-6A011	31-6A011-C	31-6A011-C	61-9A011	61-9A011	39-2A011
5 Plug Ground Contact	31-1A019	31-3A019	31-6A019	31-6A019	31-6A019-C	39-6A019-C	61-9A019	69-9A019	39-2A019
6 Color-Coded Voltage Gasket	125V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26
	208V	31-1AB26	31-3AB26	31-6AB26	31-6AB26	31-6AB26	31-9AB26	31-9AB26	39-2AB26
	250V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26
	480V	31-1AR26	31-3AR26	31-6AR26	31-6AR26	31-6AR26	31-9AR26	31-9AR26	39-2AR26
	600V	31-1AN26	31-3AN26	31-6AN26	31-6AN26	31-6AN26	31-9AN26	31-9AN26	39-2AN26
7 Plug Polyester Casing	31-1A014**	31-3A014**	31-6A014**	-	31-6A014-C**	-	61-9A014**	-	-
7 Plug Metal Casing	-	-	-	39-6A014**	-	39-6A014-C**	-	39-9A014**	39-2A014**
8 Type 4X Gasket	31-1A056	31-3A056	31-6A066	39-6A066	31-6A066	39-6A066	-	31-9A066	39-2A056

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

*** For interiors with pilot contacts, contact Customer Service for part numbers.

+ For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

DS SPARE PARTS Female Configuration



	DS20 POLY	DS30 POLY	DS60 POLY	DS60 METAL	DS100C POLY	DS100C METAL	DS100 POLY	DS100 METAL	DS200 METAL
1 Receptacle Interior***	31-1A020*	31-3A020*	31-6A020*	31-6A020*	31-6A020-C*	31-6A020-C*	61-9A020*	69-9A020*	39-2A020*
1 Recept Interior w/Ground Contacts***	-	-	-	39-6A220*	-	39-6A220-C*	-	69-9A220*	39-2A220*
1 Receptacle Interior with 2 Pilots+	31-1A320-972*	31-3A320-972*	31-6A320-972*	31-6A320-972*	31-6A320-C-972*	31-1A320-C-972*	61-9A320-262*	61-9A320-262*	39-2A320-972*
2 Interior Bottom***	31-1A020-B	31-3A020-B	31-6A020-B	31-6A020-B	31-6A020-C-B	31-6A020-C-B	61-9A552	69-9A552	39-2A020-B
3 Interior Top***	31-1A020-T*	31-3A020-T*	31-6A020-T*	31-6A020-T*	31-6A020-C-T*	31-6A020-C-T*	61-9A020-T*	69-9A020-T*	39-2A020-T*
4 Polyester Locking Ring	31-1A583	31-3A583	31-6A583	-	31-6A583	-	31-9A583	-	-
4 Metal Locking Ring	-	-	-	39-6A583	-	39-6A583	-	39-9A583	39-2A583
5 Recept Phase Contact (If no aux. contacts)	31-1A021-380	31-3A021-380	31-6A021	31-6A021	31-6A021-C	31-6A021-C	61-9A021	61-9A021	39-2A021
5 Recept Phase Contact (If plug has aux. contacts)	31-1A021	31-3A021-380	31-6A021	31-6A021	31-6A021-C	31-6A021-C	61-9A021	61-9A021	39-2A021
5 Recept Ground Contact	31-1A029	31-3A029	31-6A029	39-6A029	31-6A029-C	39-6A029-C	61-9A029	69-9A029	39-2A029
6 Color-Coded Voltage Gasket	125V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26
	208V	31-1AB26	31-3AB26	31-6AB26	31-6AB26	31-6AB26	31-9AB26	31-9AB26	39-2AB26
	250V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26
	480V	31-1AR26	31-3AR26	31-6AR26	31-6AR26	31-6AR26	31-9AR26	31-9AR26	39-2AR26
	600V	31-1AN26	31-3AN26	31-6AN26	31-6AN26	31-6AN26	31-9AN26	31-9AN26	39-2AN26
7 Receptacle Polyester Casing w/Lid	31-1A024**	31-3A024**	31-6A024**	-	31-6A024-C**	-	61-9A024**	-	-
7 Receptacle Metal Casing w/Lid	-	-	-	39-6A024**	-	39-6A024-C**	-	39-9A024**	39-2A024**
8 Lid Replacement Kit Polyester	31-1A125	31-3A125	31-6A425	-	31-6A425	-	61-9A125	-	-
8 Lid Replacement Kit Metal	-	-	-	39-6A925	-	39-6A925	-	39-9A925	39-2A925
9 Pawl Replacement Kit Polyester	31-1A824	31-3A824	31-6A824	-	31-6A824	-	61-9A824	-	-
9 Pawl Replacement Kit Metal	39-1A824	39-3A824	39-6A824	39-6A824	39-6A824	39-6A824	69-9A924	39-9A824	39-2A824

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

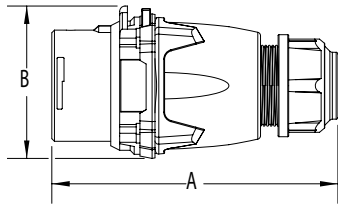
*** For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

+ For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

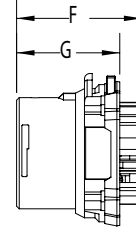
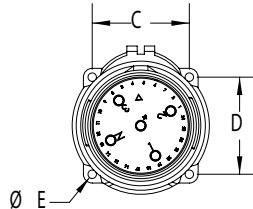
DS DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug

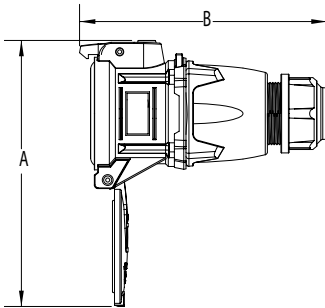


Inlet

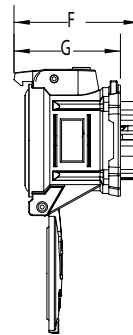
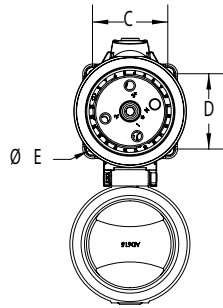


PRODUCT	A	B	C	D	ØE	F	G
DS20	5.72	2.79	1.89	1.89	0.2	2.28	1.86
DS30	6.15	3.23	2.17	2.17	0.2	2.93	2.07
DS60/DS100c/DS7c	6.70	3.77	2.59	2.59	0.24	3.42	2.38
DS100	8.33	4.59	3.20	3.2	0.24	4.14	3.04
DS200	10.30	5.67	3.86	3.86	0.26	4.66	3.20

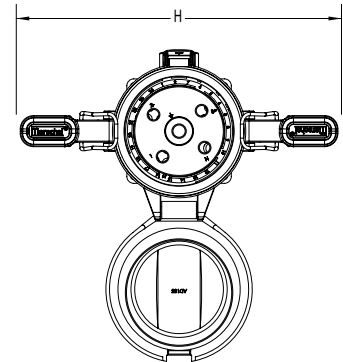
Connector



Receptacle

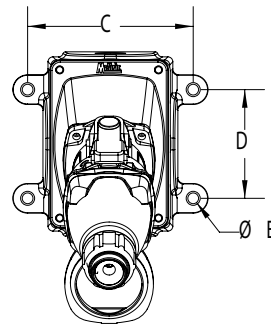
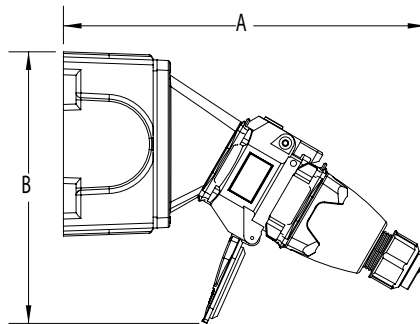


Extended Draw bars



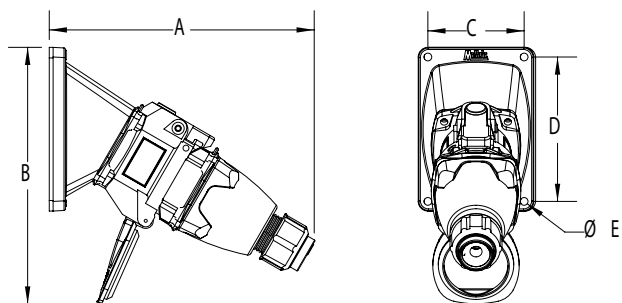
PRODUCT	A	B	C	D	ØE	F	G	H
DS20	6.32	6.38	1.89	1.89	0.2	3.3	2.60	N/A
DS30	7.16	6.93	2.17	2.17	0.2	3.73	2.87	N/A
DS60/DS100c/DS7c	8.46	7.75	2.59	2.59	0.22	4.53	3.37	N/A
DS100	11.04	10.02	3.20	3.2	0.23	5.71	4.74	11.25
DS200	11.54	10.87	3.86	3.86	0.26	6.21	4.75	12.07

Box/30° Angle/ Receptacle/Plug



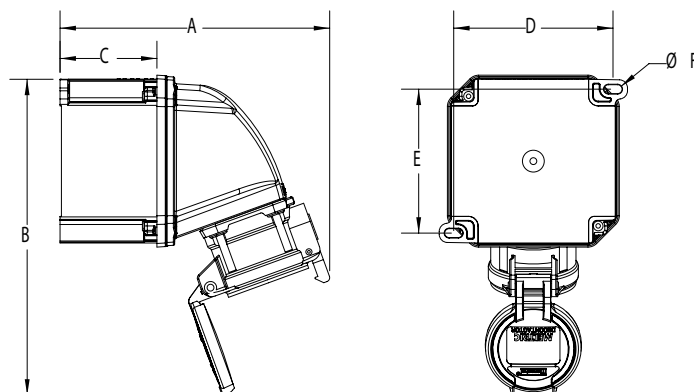
PRODUCT	A	B	C	D	ØE
DS20	9.84	7.29	4.19	2.75	0.27
DS30	10.30	8.39	4.19	2.75	0.27
DS60/DS100c/DS7c	11.87	10.45	5.00	3.81	0.33
DS100	16.06	11.77	6.75	4.25	0.31
DS200	15.76	11.54	8.13	6.38	0.31

30° Angle/Receptacle/Plug



PRODUCT	A	B	C	D	ØE
DS20	7.60	7.87	2.50	3.75	0.22
DS30	8.19	8.44	2.50	3.75	0.22
DS60/DS100c/DS7c	9.17	10.16	3.43	4.83	0.26
DS100	14.09	12.05	4.83	4.83	0.28
DS200	11.61	15.03	6.50	6.50	0.25

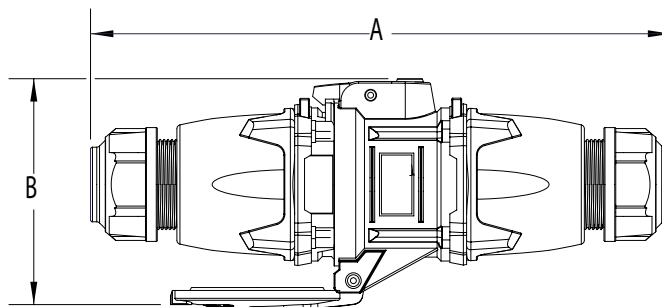
70° Wall Box/Receptacle



PRODUCT	A	B	C	D	E	ØF
DS20	7.78	9.11	2.80	4.60	4.15	0.26
DS30*	8.91	11.55	2.80	6.17	5.73	0.26
DS60/DS100c/DS7c*	9.07	12.24	2.80	6.17	5.73	0.26

* Box has 4 mounting feet

Plug/Connector



PRODUCT	A	B
DS20	10.20	4.61
DS30	10.91	5.71
DS60/DS100c/DS7c	12.17	6.57
DS100	19.53	8.03
DS200	23.15	8.00

MULTIPIN

Plugs & Receptacles



MELTRIC offers a broad range of multipin devices for use in a wide variety of control and power applications. Each device features MELTRIC's spring-loaded, silver-nickel butt-style contact technology that maximizes durability and performance. Multipin devices are available with as many as 37 or as few as 4 contacts. Products range from 2 A up to 50 A per contact and some include load making and breaking capabilities and/or horsepower ratings.

**PN7C** P. 61**COMPACT 5 TO 7 PIN CONNECTORS**

- Up to 15 A per contact
- IP66/IP67
- Poly or metal casings

**DN9C** P. 69**HP RATED CONNECTORS-9 PINS**

- Up to 5 hp @ 480VAC or 20 A per contact
- Multiple power or control circuits
- Metal casings

**PN12C** P. 63**COMPACT 12 PIN CONNECTORS**

- Up to 7.5 A per contact
- IP66/IP67
- Poly or metal casings

**DN20C** P. 71**HP RATED CONNECTORS-20 PINS**

- Up to 3 hp @ 480VAC or 15 A per contact
- Multiple power or control circuits
- Metal casings

**DSN24C** P. 65**POLY CONNECTORS UP TO 24 PINS**

- Up to 7.5 A per contact
- IP66/IP67
- Crimp or solder terminals

**DS7C** P. 73**HIGHER AMP 4 TO 7 PIN CONNECTOR**

- Up to 30 A per contact
- Suitable for current interrupting
- Up to 3 auxiliary contacts

**DSN37C** P. 67**POLY CONNECTORS UP TO 37 PINS**

- Up to 7.5 A per contact
- IP66/IP67
- Crimp or solder terminals

**DR7C** P. 75**HIGHER AMP 4 TO 7 PIN CONNECTOR**

- Up to 50 A per contact
- Non-current interrupting
- Up to 3 auxiliary contacts

CRIMPING CONTACTS

PN12c/DSN24c/DSN37c

ECONOMIC AND TECHNICAL ADVANTAGES

Crimping ensures an economical and sustainable solution through installation time saving and quality of connection.

- No need for soldering performance qualifications.
- High resistance to vibrations.
- Handling more than 5000 operations: a high durability and quality of connection guaranteed.

ACCESSORIES AND OPTIONS	DESIGNATION	REFERENCE
	PN12c	31-CA213
	DSN24c	61-BA213
	DSN37c	61-CA213
	PN12c	01-AA113
	DSN24c	61-BA113
	DSN37c	61-CA113
	Multi-Contact removal tool	61-CA593
	European crimping tool	61-CA500
	Crimper Tool (Greenlee or equal)	4CN30

FAST WIRING

- Cable conductors: 1 mm² to 2.5 mm²
- Before wiring, equip each conductor with a heat-shrink sleeve or an insulating sleeve.
- After wiring, cover the visible portion of the contact with the sleeve.
- Crimp the contact with a KNIPEX crimping tool P/N° 61CA500 or a GREENLEE crimping tool P/N° 45505.
- Use the 4 mm² footprint whatever the conductor cross-section.
- Perform a double crimping in compliance with CEI 60352-2 standard.
- Conductors can equally be soldered.

SIMPLE ASSEMBLY AND DISASSEMBLY

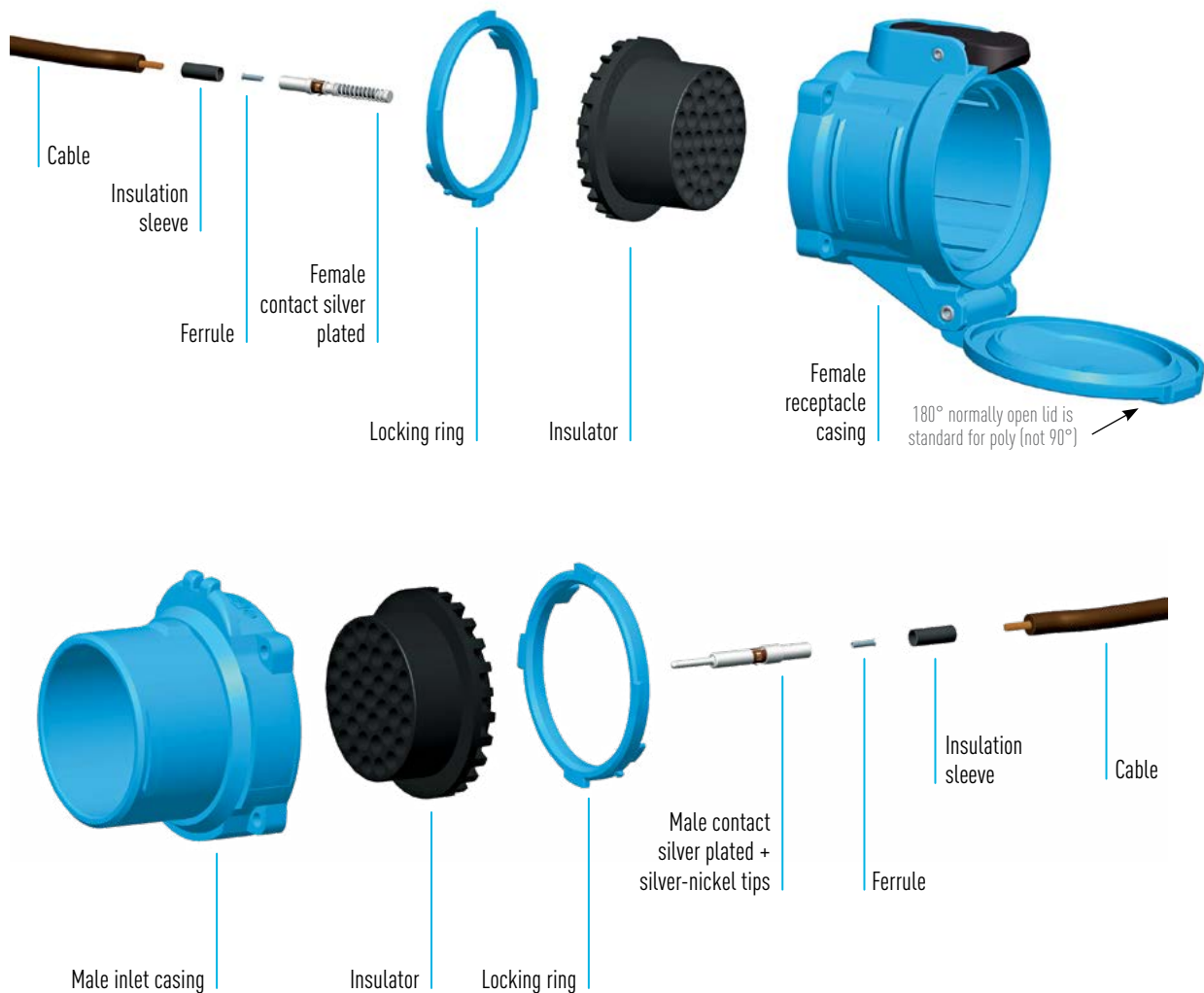


Assembly

To insert contacts when they have been wired is simple.
Push wired contact into rear of insulator until it stops to complete the installation.

Disassembly

To remove, use the tool provided.
Push tool from front onto contact until tool stops.
Contact is then released at rear of insulator.



PN7c Multipin Plugs & Receptacles – 15 A

Ratings

- **Voltage**
480 VAC Max/130 VDC
 - **Amperage Rating**
15 A Current Interrupting
! Capable of handling 4-20mA low current applications
 - **Environmental Ratings**
IP66/IP67 (Poly/Metal)*
 - **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
 - **Wiring Capacity**
Min 18 AWG Max 10 AWG
 - **Certifications**
UL*, CSA*
- * Does not apply to stainless steel version.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #			Part #		
		Poly	Metal	Stainless Steel	Poly	Metal	Stainless Steel
480V	4P+G	01-P4041	09-P4041	09-04041-SS	01-P8041	09-P8041	09-08041-SS
480V	5P+G	01-P4051	09-P4051	09-04051-SS	01-P8051	09-P8051	09-08051-SS
480V	6P+G	01-P4061	09-P4061	09-04061-SS	01-P8061	09-P8061	09-08061-SS

Main Options



Reverse Interiors



Flush Mount
(replaces female casing)



Locking Pawl

Receptacle Options

Suffix

Inlet Options

Suffix

Reverse Interiors

Recept # - 001

Reverse Interiors

Inlet # - 001

With Flush Mount (poly only)

Recept # - 142*

Locking Pawl (poly/metal only)

Recept # - 824-300

* IP55 rating with Flush Mount casing

! See pages 233-242 for detailed information on these options

Order Example: 600V PN7c + Reverse Interiors
PN7c Receptacle 5P+G = 01-P4051-**001**

INSTALLATION ACCESSORIES – SIZE 1

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles. Stainless steel devices should use stainless steel accessories.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	511P0N05	591P0N05
	3/4"	511P0N07	591P0N07
	1"	511P0N10	591P0N10

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	711P0BP6
	.520 - .680"	711P0CP5
	.680 - .980"	711P0DP4

METAL HANDLE w/CORD GRIP		
	.438 - .500"	791P0BS3
	.500 - .562"	791P0BS4
	.562 - .625"	791P0CS1
	.625 - .750"	791P0CS4
	.750 - .875"	791P0DS1
	.875 - 1.000"	791P0DS3

POLY 90° HANDLE w/NPT		
	1/2"	751P9N05
	3/4"	751P9N07
	1"	751P9N10

STAINLESS STEEL HANDLE w/NPT		
	1/2"	7X1P0N05
	3/4"	7X1P0N07

For Stainless Steel devices only. For 1/2" NPT size, a hole size reducer is utilized.

POLY HANDLE		
	.35 - .70"	511P0D18

POLY ANGLED HANDLE		
	.35 - .70"	511P6D18

ANGLES

POLY ANGLE			
	MB Box 30°	511M3	
	70°	511M7	

METAL ANGLE		
	0°	591M0

	FS/FD Box 30°	791M3FS	* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.
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	45°	591M4
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STAINLESS STEEL ANGLE		
	30°	7X1M4

For Stainless Steel devices only.

BOXES

POLY CONDUIT ENTRY w/NPT				Part #
	30°	1/2"		511B3N05
	* 7.0 in ³	30°	3/4"	511B3N07

* Interior volume with receptacle installed.

POLY WALL BOX w/NPT				Part #
	0°	1/2"		511B0N05
	* 3.4 in ³	0°	3/4"	511B0N07

* Interior volume with receptacle installed.

METAL WALL BOX w/NPT				Part #
	0°	1/2"		591B0N05
	* 3.8 in ³	0°	3/4"	591B0N07

* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE		
	70°	511C7000

* 82.0 in³

70° poly boxes are not drilled. Contact customer service if factory drilled is required.

* Interior volume with receptacle installed.

	Ground Bar	51AA089
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METAL BOX w/NPT				
	0°	1/2"		7T1F0N05
	0°	3/4"		7T1F0N07
	0°	1"		7T1F0N10
	0°	1 1/4"		7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT				
	30°	1/2"		711C3N05
	30°	3/4"		711C3N07
	30°	1"		711C3N10
	* 30.0 in ³	30°	1 1/4"	711C3N12

* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX w/NPT				
	45°	1/2"		791C4N05
	45°	3/4"		791C4N07
	45°	1"		791C4N10
	* 27.0 in ³	45°	1 1/4"	791C4N12

STAINLESS STEEL BOX WITH STAINLESS STEEL ANGLE w/NPT				
	30°	3/4"		7X1C3N07
	30°	1"		7X1C3N10

* Includes angle adapter as shown. For Stainless Steel devices only.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	01-NA426	For Inlets/Plugs Only.

FLUSH MOUNT		
	01-2A142	

CORD GRIP with MESH		
	see pg 165	

PN12c Multipin Plugs & Receptacles – 7.5 A

Ratings

- **Voltage**
600 VAC Max/130 VDC
- **Amperage Rating**
2 A Current Interrupting
7.5 A Non-Current Interrupting
! PN12c is capable of handling
4-20mA low current applications
- **Environmental Ratings**
IP66/IP67 (Poly/Metal)*
- **Temperature Range**
Min -40°F/ Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 18 AWG Max 14 AWG
- **Certifications**
UL Coming Soon!

* Does not apply to stainless steel version.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #			Part #		
		Poly	Metal	Stainless Steel	Poly	Metal	Stainless Steel
600V	11P+G	03-A4001	07-A4001	07-A4001-SS	03-A8001	07-A8001	07-A8001-SS

Main Options



Reverse Interiors



Flush Mount
(replaces female casing)



Locking Pawl

Receptacle Options

Suffix

Reverse Interiors	Recept # - 001
With Flush Mount (poly only)	Recept # - 142*
Locking Pawl	Recept # - 824-300

* IP55 rating with Flush Mount casing

Inlet Options

Suffix

Reverse Interiors	Inlet # - 001
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! See pages 233-242 for detailed information on these options

Order Example: 600V PN12c + Reverse Interiors
PN12c Receptacle 11P+G = 03-A4001-**001**

INSTALLATION ACCESSORIES – SIZE 1

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles. Stainless steel devices should use stainless steel accessories.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	511P0N05	591P0N05
	3/4"	511P0N07	591P0N07
	1"	511P0N10	591P0N10

For available cord grips, see pg 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	711P0BP6
	.520 - .680"	711P0CP5
	.680 - .980"	711P0DP4

METAL HANDLE w/CORD GRIP		
	.438 - .500"	791P0BS3
	.500 - .562"	791P0BS4
	.562 - .625"	791P0CS1
	.625 - .750"	791P0CS4
	.750 - .875"	791P0DS1
	.875 - 1.000"	791P0DS3

POLY 90° HANDLE w/NPT		
	1/2"	751P9N05
	3/4"	751P9N07
	1"	751P9N10

STAINLESS STEEL HANDLE w/NPT		
	1/2"	7X1P0N05
	3/4"	7X1P0N07
	1"	7X1P0N10

For Stainless Steel devices only.

For 1/2" NPT size, a hole size reducer is utilized.

POLY HANDLE		
	.35 - .70"	511P0D18

POLY ANGLED HANDLE		
	.35 - .70"	511P6D18

ANGLES

POLY ANGLE			
	MB Box 30°	511M3	
	70°	511M7	

METAL ANGLE		
	0°	591M0

	FS/FD Box 30°	791M3FS	* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.
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	45°	591M4	
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STAINLESS STEEL ANGLE			
	30°	7X1M4	For Stainless Steel devices only.

BOXES

POLY CONDUIT ENTRY w/NPT				Part #
	30°	1/2"		511B3N05
	30°	3/4"		511B3N07

* Interior volume with receptacle installed.

POLY WALL BOX w/NPT				Part #
	0°	1/2"		511B0N05
	0°	3/4"		511B0N07

* Interior volume with receptacle installed.

METAL WALL BOX w/NPT				Part #
	0°	1/2"		591B0N05
	0°	3/4"		591B0N07

* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE				Part #
	70°			511C7000

70° poly boxes are not drilled. Contact customer service if factory drilled is required.

* Interior volume with receptacle installed.

METAL BOX w/NPT				Part #
	0°	1/2"		7T1F0N05
	0°	3/4"		7T1F0N07
	0°	1"		7T1F0N10
	0°	1 1/4"		7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT				Part #
	30°	1/2"		711C3N05
	30°	3/4"		711C3N07
	30°	1"		711C3N10
	30°	1 1/4"		711C3N12

* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX w/NPT				Part #
	45°	1/2"		791C4N05
	45°	3/4"		791C4N07
	45°	1"		791C4N10
	45°	1 1/4"		791C4N12

* Interior volume with receptacle installed.

STAINLESS STEEL BOX WITH STAINLESS STEEL ANGLE w/NPT				Part #
	30°	3/4"		7X1C3N07
	30°	1"		7X1C3N10

* Includes angle adapter as shown. For Stainless Steel devices only.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	01-NA426	For Inlets/Plugs Only.

FLUSH MOUNT	
	01-2A142

CORD GRIP with MESH	
	see pg 165

MULTI-CONTACT REMOVAL TOOL	
	61-CA593

CRIMPER TOOL (GREENLEE OR EQUAL)	
	4CN30

EUROPEAN CRIMPING TOOL	
	61-CA500

DSN24c/DS24c Multipin Plugs & Receptacles – 7.5 A

Ratings

- **Voltage**
DSN24c
 480 VAC Max/130 VDC
DS24c
 250 VAC Max/130 VDC
- **Amperage Rating**
 2 A Current Interrupting
 7.5 A Non-Current Interrupting
 ! DSN24c/DS24c is capable of handling 4-20mA low current applications
- **Environmental Ratings**
 IP66/IP67 (Poly only)
 IP54/IP55 (Stainless Steel)
- **Temperature Range**
 Min -40°F/Max 140°F
 See pg 256 for temps below -15°F.
- **Wiring Capacity**
 Min 18 AWG Max 14 AWG
- **Certifications**
 UL Coming Soon!

For DSN24c dimensions, see pgs 37-38.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Stainless Steel	Poly	Stainless Steel
250V	23P+G	-	37-B4002-SS	-	37-B8002-SS
480V	23P+G	63-B4002	-	63-B8002	-

Main Options



Padlock Pawl



Mushroom Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

Receptacle Options

Suffix

Inlet Options

Suffix

Straight Insertion

Recept # - 352

Self-Ejecting Connector Release

Recept # - 354

Mushroom Pawl

Recept # - 375

Padlock Pawl

Recept # - 843

Padlockable Mushroom Pawl

Recept # - 375-843

Closed Lid Configuration

Recept # - NC

Self-Ejecting Plug Release

Inlet # - 338

Poly Devices Only

! See pages 233-242 for detailed information on these options

Order Example: 480V DSN24c + mushroom pawl
 DSN24c 22P Poly receptacle = 63-B4002-375

INSTALLATION ACCESSORIES – SIZE 2

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles. Stainless steel devices should use stainless steel accessories.

HANDLES

HANDLE w/NPT		Part # Poly
	1/2"	512P0N05
	3/4"	512P0N07
	1"	512P0N10
	1 1/4"	512P0N12

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	712P0BP6
	.520 - .680"	712P0CP5
	.680 - .980"	712P0DP4
	.980 - 1.260"	712P0EP4

STAINLESS STEEL HANDLE w/NPT		
	3/4"	7X2P0N07
	1"	7X2P0N10

For Stainless Steel devices only.

POLY HANDLE		
	.20 - .83"	512P0D21

POLY HANDLE w/CLAMP & BUSHING		
	.750 - .875"	712P0S14
	.875 - 1.000"	712P0S16
	1.000 - 1.125"	712P0S18
	1.125 - 1.250"	712P0S20
	1.250 - 1.375"	712P0S22

ANGLES

POLY ANGLE			
	30°	512M3	
	70°	512M7	

METAL ANGLE		
	0°	592M0
	30°	592M3

	FS/FD Box 30°	792M3FS
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* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

STAINLESS STEEL ANGLE		
	30°	7X2M3

BOXES

POLY CONDUIT ENTRY w/NPT			Part #
	30°	1/2"	512B3N05
	30°	3/4"	512B3N07

For poly devices only
* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE			Part #
	70°		512C7000
* 82.0 in ³			
Ground Bar			51AA089

70° poly boxes are not drilled. Contact customer service if factory drilled is required.
* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	712C7N05
	70°	3/4"	712C7N07
	70°	1"	712C7N10
	70°	1 1/4"	712C7N12
	70°	1 1/2"	712C7N15

* Interior volume with receptacle installed.

METAL BOX w/NPT			
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	712C3N05
	30°	3/4"	712C3N07
	30°	1"	712C3N10
	30°	1 1/4"	712C3N12

For metal angle, replace "71" prefix with "79".
* Interior volume with receptacle installed.

STAINLESS STEEL BOX w/NPT			
	0°	1"	7X1F0N10

For Stainless Steel devices only.

STAINLESS STEEL ANGLE w/STAINLESS STEEL BOX w/NPT			
	30°	3/4"	7X2C3N07
	30°	1"	7X2C3N10

For Stainless Steel devices only.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-3A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.
PROTECTIVE INLET/PLUG CAP		
	61-3A426	For Inlets/Plugs Only.
PADLOCKABLE INLET/PLUG CAP		
	61-3A826	For Inlets/Plugs Only.
MULTI-CONTACT REMOVAL TOOL		
	61-CA593	

Poly Devices Only

CRIMPER TOOL (GREENLEE OR EQUAL)	
	4CN30
EUROPEAN CRIMPING TOOL	
	61-CA500

DSN37c/DS37c Multipin Plugs & Receptacles – 7.5 A

Ratings

- **Voltage**
480 VAC Max/130 VDC
- **Amperage Rating**
2 A Current Interrupting
7.5 A Non-Current Interrupting
! DSN37c/DS37c is capable of handling 4-20mA low current applications
- **Environmental Ratings**
IP66/IP67 (Poly only)
IP54/IP55 (Stainless Steel)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 18 AWG Max 14 AWG
- **Certifications**
UL Coming Soon!

For DSN37c dimensions, see pgs 37-38.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Stainless Steel	Poly	Stainless Steel
480V	36P+G	63-C4003	37-C4003-SS	63-C8003	37-C8003-SS

Main Options



Padlock Pawl



Mushroom Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

Receptacle Options

Suffix

Inlet Options

Suffix

Straight Insertion	Recept # - 352	Self-Ejecting Plug Release	Inlet # - 338
Self-Ejecting Connector Release	Recept # - 354		
Mushroom Pawl	Recept # - 375		
Padlock Pawl	Recept # - 843		
Padlockable Mushroom Pawl	Recept # - 375-843		
Closed Lid Configuration	Recept # - NC		

Poly Devices Only

! See pages 233-242 for detailed information on these options

Order Example: 480V DSN37 + mushroom pawl
DSN37c 32P Poly receptacle = 63-C4003-375

INSTALLATION ACCESSORIES – SIZE 3

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles. Stainless steel devices should use stainless steel accessories.

HANDLES

POLY HANDLE w/NPT		Part # Poly
	1/2"	513P0N05
	3/4"	513P0N07
	1"	513P0N10
	1 1/4"	513P0N12

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.520 - .680"	713P0CP5
	.680 - .980"	713P0DP4
	.980 - 1.260"	713P0EP4

STAINLESS STEEL HANDLE w/NPT		
	3/4"	7X3P0N07
	1"	7X3P0N10
	1 1/4"	7X3P0N12

For Stainless Steel devices only.

POLY HANDLE		
	.39 - 1.18"	513P0D30

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.39 - 1.18"	513P0D30473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	.750 - .875"	713P0S14
	.875 - 1.000"	713P0S16
	1.000 - 1.125"	713P0S18
	1.125 - 1.250"	713P0S20
	1.250 - 1.375"	713P0S22

ANGLES

POLY ANGLE					
	30°	513M3		70°	513M7

METAL ANGLE		
	0°	593M0
	30°	593M3

	FS/FD Box 30°	793M3FS
---	---------------	---------

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

	70°	593M7
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STAINLESS STEEL ANGLE		
	30°	7X3M3

For Stainless Steel devices only.

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
	30°	1/2"	513B3N05	For poly devices only
	30°	3/4"	513B3N07	
	30°	1"	513B3N10	* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE			Part #	
	70°		513C7000	70° poly boxes are not drilled. Contact customer service if factory drilled is required.
		Ground Bar	51AA089	* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT				
	70°	1/2"	713C7N05	* Interior volume with receptacle installed.
	70°	3/4"	713C7N07	
	70°	1"	713C7N10	
	70°	1 1/4"	713C7N12	
	70°	1 1/2"	713C7N15	

METAL BOX w/NPT				
	0°	1/2"	7T1F0N05	
	0°	3/4"	7T1F0N07	
	0°	1"	7T1F0N10	
	0°	1 1/4"	7T1F0N12	

POLY ANGLE WITH METAL BOX w/NPT				
	30°	1/2"	713C3N05	For metal angle, replace "71" prefix with "79".
	30°	3/4"	713C3N07	
	30°	1"	713C3N10	
	30°	1 1/4"	713C3N12	* Interior volume with receptacle installed.

STAINLESS STEEL BOX w/NPT				
	0°	1"	7X1F0N10	For Stainless Steel devices only.

STAINLESS STEEL ANGLE W/STAINLESS STEEL BOX w/NPT				
	30°	1"	7X3C3N10	For Stainless Steel devices only.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	61-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	61-6A826	For Inlets/Plugs Only.

MULTI-CONTACT REMOVAL TOOL		
	61-CA593	

CRIMPER TOOL (GREENLEE OR EQUAL)		
	4CN30	

EUROPEAN CRIMPING TOOL		
	61-CA500	

DN9c Multipin Plugs & Receptacles – 20 A

Ratings

- **Voltage**
50 VAC or 480 VAC Max/130 VDC*
* For DC order 480V model.
Not CSA listed.
- **Amperage Rating**
20 A Current Interrupting
- **Horsepower Ratings**

120V	1Ø	1/2 hp
240V	1Ø	1 1/2 hp
208V	3Ø	2 hp
240V	3Ø	3 hp
480V	3Ø	5 hp
- **Environmental Ratings**
IP54/IP55
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 16 AWG Max 10 AWG
- **Certifications**
CSA 182.01

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
50V	6P	17-14060	17-18060
50V	7P	17-14070	17-18070
50V	8P	17-14080	17-18080
50V	9P	17-14090	17-18090
480V	5P+G	17-14051	17-18051
480V	6P+G	17-14061	17-18061
480V	7P+G	17-14071	17-18071
480V	8P+G	17-14081	17-18081

Main Options



**Mushroom
Pawl**



Padlock Pawl

Receptacle Options

Suffix

Inlet Options

Suffix

Straight Insertion	Recept # - A188
Self-Ejecting Connector Release	Recept # - 348-A188
HP Watertightness (high pressure)	Recept # - HP
Mushroom Pawl	Recept # - 375
Locking Mushroom Pawl	Recept # - 845
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375-843
Closed Lid Configuration	Recept # - NC

! See pages 233-242 for detailed information on these options

Order Example: 50V DN9c with Closed Lid Configuration
DN9c Receptacle 9P = 17-14090-NC

INSTALLATION ACCESSORIES – SIZE 3

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	513P0N05	593P0N05
	3/4"	513P0N07	593P0N07
	1"	513P0N10	593P0N10
	1 1/4"	513P0N12	593P0N12

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP		Cable Range	Part #
		.520 - .680"	713P0CP5
		.680 - .980"	713P0DP4
		.980 - 1.260"	713P0EP4

METAL HANDLE w/CORD GRIP			
		.625 - .750"	793P0CS4
		.750 - .875"	793P0DS1
		.875 - 1.000"	793P0DS3
		1.000 - 1.125"	793P0ES2

POLY HANDLE			
		.39 - 1.18"	513P0D30

POLY HANDLE w/BUILT IN DRAW GRIPS			
		.39 - 1.18"	513P0D30473
Makes connector closures easier.			

POLY HANDLE w/CLAMP & BUSHING			
		.770 - .875"	713P0S14
		.875 - 1.000"	713P0S16
		1.000 - 1.125"	713P0S18
		1.125 - 1.250"	713P0S20
		1.250 - 1.375"	713P0S22

ANGLES

METAL ANGLE			
	0°	593M0	
	30°	593M3	
	FS/FD Box 30°	793M3FS	* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.
	70°	593M7	

BOXES

METAL BOX w/NPT			Part #
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

METAL ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	793C3N05
	30°	3/4"	793C3N07
	30°	1"	793C3N10
	30°	1 1/4"	793C3N12

* 30.1 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

* Interior volume with receptacle installed.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.
PROTECTIVE INLET/PLUG CAP		
	19-1A126	For Inlets/Plugs Only.
CORD GRIP with MESH		
	see pg 165	
RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DN20c Multipin Plugs & Receptacles – 20 A

Ratings

- **Voltage**
50 VAC or 480 VAC Max/130 VDC*
* For DC order 480V model.
Not CSA listed.
- **Amperage Rating**
20 A/15 A Current Interrupting*
* The amperage rating is 15 A when more than 12 contacts are used for power circuits (not control).
- **Horsepower Ratings**

120V	1Ø	1/6 hp
240V	1Ø	1/2 hp
208V	3Ø	1 hp
240V	3Ø	1 hp
480V	3Ø	3 hp
- **Environmental Ratings**
IP54/IP55
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 16 AWG Max 10 AWG
- **Certifications**
CSA 182.01

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
50V	10P	17-64100	17-68100
50V	11P	17-64110	17-68110
50V	12P	17-64120	17-68120
50V	13P	17-64130	17-68130
50V	14P	17-64140	17-68140
50V	15P	17-64150	17-68150
50V	16P	17-64160	17-68160
50V	17P	17-64170	17-68170
50V	18P	17-64180	17-68180
50V	19P	17-64190	17-68190
50V	20P	17-64200	17-68200
480V	9P+G	17-64091	17-68091
480V	10P+G	17-64101	17-68101
480V	11P+G	17-64111	17-68111
480V	12P+G	17-64121	17-68121
480V	13P+G	17-64131	17-68131
480V	14P+G	17-64141	17-68141
480V	15P+G	17-64151	17-68151
480V	16P+G	17-64161	17-68161
480V	17P+G	17-64171	17-68171
480V	18P+G	17-64181	17-68181
480V	19P+G	17-64191	17-68191

Main Options



Mushroom Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

! See pages 233-242 for detailed information on these options

Receptacle Options

Suffix

Inlet Options

Suffix

Straight Insertion	Recept # - A188	Self-Ejecting Plug Release	Inlet # - 338-A188
Self-Ejecting Connector Release	Recept # - 348-A188	Straight Insertion	Inlet # - A188
HP Watertightness (high pressure)	Recept # - HP		
Mushroom Pawl	Recept # - 375		
Locking Mushroom Pawl	Recept # - 845		
Padlock Pawl	Recept # - 843		
Padlockable Mushroom Pawl	Recept # - 375-843		
180° Opening Lid	Recept # - 180		
Closed Lid Configuration	Recept # - NC		

Order Example: 50V DN20c with Closed Lid Configuration

DN20c Receptacle 19P = 17-64190-NC

INSTALLATION ACCESSORIES – SIZE 5

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	3/4"	515P0N07	595P0N07
	1"	515P0N10	595P0N10
	1 1/4"	515P0N12	595P0N12
	1 1/2"	515P0N15	595P0N15
	2"	515P0N20	595P0N20

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP		Cable Range	Part #
		.980 - 1.260"	715P0EP4
		1.260 - 1.560"	715P0FP1
		1.520 - 1.860"	715P0GP2

METAL HANDLE w/CORD GRIP			
		1.250 - 1.375"	795P0FS1
		1.438 - 1.562"	795P0FS2*
		1.562 - 1.688"	795P0FS3*
		1.688 - 1.812"	795P0GS1

*May require stripping of cable jacket.

POLY HANDLE w/CLAMP & BUSHING			
		1.250 - 1.375"	715P0S22
		1.438 - 1.562"	715P0S25
		1.562 - 1.688"	715P0S27
		1.688 - 1.812"	715P0S29

SANTOPRENE HANDLE			
		.70 - 1.000"	555P0D25
		.984 - 1.377"	555P0D35
		1.378 - 1.771"	555P0D45

ANGLES

METAL ANGLE			
	0°	595M0	
	30°	595M3	
	70°	595M7	

BOXES

METAL BOX w/NPT			Part #
	0°	1 1/4"	7T5F0N12
	0°	1 1/2"	7T5F0N15
	0°	2"	7T5F0N20
	0°	2 1/2"	7T5F0N25

METAL ANGLE WITH METAL BOX w/NPT			
	30°	1 1/4"	795C3N12
	30°	1 1/2"	795C3N15
	30°	2"	795C3N20
	30°	2 1/2"	795C3N25

* 118.9 in³

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP			
	19-6A126	For Inlets/Plugs Only.	
CORD GRIP with MESH			
	see pg 165		
RECEPTACLE LOCKING PIN			
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.	

DS7c Multipin Plugs & Receptacles – 30 A

UL/CSA Ratings

- **Voltage**
50 VAC or 600 VAC Max/130 VDC*
* For DC order 600V model
- **Amperage Rating**
30 A Current Interrupting
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Environmental Ratings**
IP54/IP55
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
- **Certifications**
Contact Customer Service

For DS7c dimensions, see pgs 55-56.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
50V	4P	33-34540	37-34540	33-38540	37-38540
50V	5P	33-34550	37-34550	33-38550	37-38550
50V	6P	33-34560	37-34560	33-38560	37-38560
50V	7P	33-34570	37-34570	33-38570	37-38570
600V	3P+G	33-34531	37-34531	33-38531	37-38531
600V	4P+G	33-34541	37-34541	33-38541	37-38541
600V	5P+G	33-34551	37-34551	33-38551	37-38551
600V	6P+G	33-34561	37-34561	33-38561	37-38561

Main Options



Mushroom Pawl



Padlock Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 172

With 2 Auxiliary/Pilot Contacts

Inlet # - 172

With 3 Auxiliary/Pilot Contacts

Recept # - 173

With 3 Auxiliary/Pilot Contacts

Inlet # - 173

Type 4X & Closed Lid Configuration

Recept # - 4X

Type 4X Watertightness

Inlet # - 4X

Straight Insertion

Recept # - 352

Self-Ejecting Plug Release

Inlet # - 338

Self-Ejecting Connector Release

Recept # - 354

With No Lockout Hole

Inlet # - A155

Mushroom Pawl

Recept # - 375

Padlock Pawl

Recept # - 843

Padlockable Mushroom Pawl

Recept # - 375-843

Locking Mushroom Pawl

Recept # - 845

Metal Pawl (on poly receptacle)

Recept # - 824

Closed Lid Configuration

Recept # - NC

! See pages 233-242 for detailed information on these options

Order Example: 50V DS7c + mushroom pawl

DS7c Poly receptacle 4P = 33-34540-375

INSTALLATION ACCESSORIES – SIZE 4

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	514P0N05	594P0N05
	3/4"	514P0N07	594P0N07
	1"	514P0N10	594P0N10
	1 1/4"	514P0N12	594P0N12
	1 1/2"	514P0N15	594P0N15

For metal devices only

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	714P0DP4
	.980 - 1.260"	714P0EP4
	1.260 - 1.560"	714P0FP1

METAL HANDLE w/CORD GRIP		
	.750 - .875"	794P0DS1
	.875 - 1.000"	794P0DS3
	1.000 - 1.125"	794P0ES2
	1.250 - 1.375"	794P0FS1
	1.438 - 1.562"	794P0FS2*
	1.562 - 1.688"	794P0FS3*

POLY HANDLE		
	.51 - 1.38"	514P0D35

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.51 - 1.38"	514P0D35473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	714P0S22
	1.438 - 1.562"	714P0S25
	1.562 - 1.688"	714P0S27
	1.688 - 1.812"	714P0S29

ANGLES

POLY ANGLE				
	30°	514M3		70° 514M7
METAL ANGLE				
	0°	594M0		
	30°	594M3		
	30°	794M3L		
	Oversized 30°	794M3	Mounts on oversize box only. Order with 7T5F0Nxx. See pg 50.	
	70°	594M7		

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
	30°	1/2"	514B3N05	For poly devices only
	30°	3/4"	514B3N07	
	30°	1"	514B3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	514B3N12	

POLY WALL BOX w/ANGLE			Part #	
	70°		514C7000	70° poly boxes are not drilled. Contact customer service if factory drilled is required.
Ground Bar			51AA089	* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	714C7N05
	70°	3/4"	714C7N07
	70°	1"	714C7N10
	70°	1 1/4"	714C7N12
	70°	1 1/2"	714C7N15

METAL BOX w/NPT			
	0°	1"	7T4F0N10
	0°	1 1/4"	7T4F0N12
	0°	1 1/2"	7T4F0N15
	0°	2"	7T4F0N20

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1"	714C3N10
	30°	1 1/4"	714C3N12
	30°	1 1/2"	714C3N15
	30°	2"	714C3N20

* 61.0 in³ Poly Angle
* 59.9 in³ Metal Angle

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	31-6A226	For Poly Inlets/Plugs Only.
	39-6A226	For Metal Inlets/Plugs Only.

-A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR7c Multipin Plugs & Receptacles – 50 A

UL/CSA Ratings

- **Voltage**
50 VAC or 600 VAC Max/130 VDC*
* For DC order 600V model
- **Amperage Rating**
50 A Non-Current Interrupting
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Environmental Ratings**
IP54/IP55
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
- **Certifications**
Contact Customer Service

For DR7c dimensions, see pgs 99-100.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
50V	4P	31-34940	39-34940	31-38940	39-38940
50V	5P	31-34950	39-34950	31-38950	39-38950
50V	6P	31-34960	39-34960	31-38960	39-38960
50V	7P	31-34970	39-34970	31-38970	39-38970
600V	3P+G	31-34931	39-34931	31-38931	39-38931
600V	4P+G	31-34941	39-34941	31-38941	39-38941
600V	5P+G	31-34951	39-34951	31-38951	39-38951
600V	6P+G	31-34961	39-34961	31-38961	39-38961

Main Options



Mushroom Pawl



Padlock Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts
With 3 Auxiliary/Pilot Contacts
Type 4X & Closed Lid Configuration

Recept # - 172

Recept # - 173

Recept # - 4X

Straight Insertion

Recept # - 352

Mushroom Pawl

Recept # - 375

Padlock Pawl

Recept # - 843

Padlockable Mushroom Pawl

Recept # - 375-843

Locking Mushroom Pawl

Recept # - 845

Metal Pawl (on poly receptacle)

Recept # - 824

Closed Lid Configuration

Recept # - NC

With 2 Auxiliary/Pilot Contacts
With 3 Auxiliary/Pilot Contacts
Type 4X Watertightness

Inlet # - 172

Inlet # - 173

Inlet # - 4X

With No Lockout Hole

Inlet # - A155

! See pages 233-242 for detailed information on these options

Order Example: 50V DR7c + mushroom pawl

DR7c Poly receptacle 4P = 31-34940-375

INSTALLATION ACCESSORIES – SIZE 4

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	514P0N05	594P0N05
	3/4"	514P0N07	594P0N07
	1"	514P0N10	594P0N10
	1 1/4"	514P0N12	594P0N12
	1 1/2"	514P0N15	594P0N15

For metal devices only

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	714P0DP4
	.980 - 1.260"	714P0EP4
	1.260 - 1.560"	714P0FP1

METAL HANDLE w/CORD GRIP		
	.750 - .875"	794P0DS1
	.875 - 1.000"	794P0DS3
	1.000 - 1.125"	794P0ES2
	1.250 - 1.375"	794P0FS1
	1.438 - 1.562"	794P0FS2*
	1.562 - 1.688"	794P0FS3*

POLY HANDLE		
	.51 - 1.38"	514P0D35

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.51 - 1.38"	514P0D35473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	714P0S22
	1.438 - 1.562"	714P0S25
	1.562 - 1.688"	714P0S27
	1.688 - 1.812"	714P0S29

ANGLES

POLY ANGLE					
	30°	514M3		70°	514M7

METAL ANGLE		
	0°	594M0
	30°	594M3

	30°	794M3L
	30°	794M3L

	Oversized 30°	794M3	Mounts on oversize box only. Order with 715FDNxx. See pg 50.
	70°	594M7	

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
	30°	1/2"	514B3N05	For poly devices only
	30°	3/4"	514B3N07	
	30°	1"	514B3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	514B3N12	

POLY WALL BOX w/ANGLE			
	70°		514C7000
	70°		514C7000
* 181.24 in ³		Ground Bar	51AA089

70° poly boxes are not drilled. Contact customer service if factory drilled is required.

* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	714C7N05
	70°	3/4"	714C7N07
	70°	1"	714C7N10
	70°	1 1/4"	714C7N12
	70°	1 1/2"	714C7N15

* Interior volume with receptacle installed.

METAL BOX w/NPT			
	0°	1"	7T4F0N10
	0°	1 1/4"	7T4F0N12
	0°	1 1/2"	7T4F0N15
	0°	2"	7T4F0N20

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1"	714C3N10
	30°	1 1/4"	714C3N12
	30°	1 1/2"	714C3N15
	30°	2"	714C3N20

* 61.0 in³ Poly Angle

* 59.9 in³ Metal Angle

For metal angle, replace "71" prefix with "79".

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	31-6A226	For Poly Inlets/Plugs Only.
	39-6A226	For Metal Inlets/Plugs Only.

-A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.

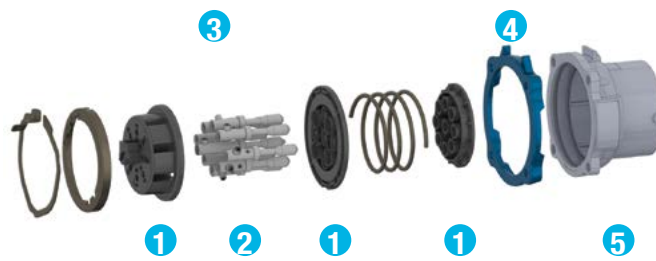
RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

MULTIPIN SPARE PARTS Male Configuration

PN7c pictured



DN9c pictured



	DSN24c POLY	DSN37c POLY	DS24c SS	DS37c SS
Plug Interior	61-BA910	61-CA910	61-BA910-SS	61-CA910-SS
Plug Contact (Qty = 13)*	61-BA113	61-CA113	61-BA113	61-CA113
Plug Casing**	61-3A105	61-6A105	39-1A014-SS	39-3A014-SS
Device Gasket	61-3AM26	31-3AM26	39-1A026-SS	31-3AM26

* If a DSN24c or 37c device was originally purchased before February 2013, contact customer service for parts.

** If a DSN24c or 37c device was originally purchased before March 2015, contact customer service for casing parts.

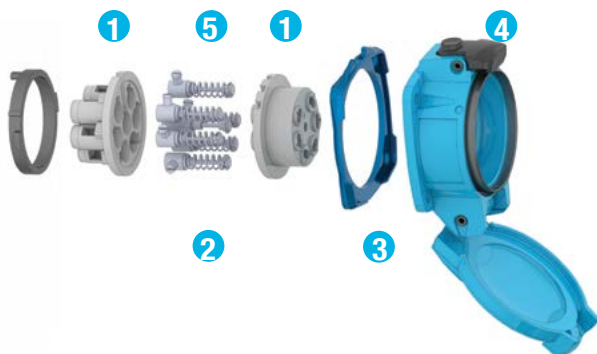
	PN7c POLY	PN7c METAL	PN12c POLY	PN12c METAL
1 Plug Interior, Ground Contact & Connection	01-PA910	09-PA910	01-AA910	09-AA910
2 Plug Contact (PN12c Qty = 13)*	09-PA911	09-PA911	01-AA113	01-AA113
3 Device Gasket	61-1AM26	61-1AM26	61-1AM26	61-1AM26
4 Plug Casing	01-NA014	09-NA014	01-NA014	09-NA014
5 Ground Contact	09-PA919	09-PA919	-	-

* If the PN12c device was purchased before March 2013, contact customer service for parts.

	DN9c METAL	DN20c METAL	DS7c/ DR7c POLY	DS7c/ DR7c METAL
1 Plug Interior	19-1A910	19-6A910	Plug Casing	31-6A014
2 Plug Contact (Short/Outside)	19-1A911	19-6A911	Plug Phase Contact	31-3A911
2 Plug Contact (Long/Inside)	19-1A711	19-6A711	Plug Pilot Contact	31-3A911-172
3 Plug Ground Contact	19-1A919	19-6A919	Plug Interior	31-3A910-263
4 Plug Casing	19-1A014	19-6A014	Device Gasket	31-6AM26
5 Device Gasket	31-3A026	31-9A026	Ground Contact	31-3A919

MULTIPIN SPARE PARTS Female Configuration

PN7c pictured



DN9c pictured



	DSN24c POLY	DSN37c POLY	DS24c SS	DS37c SS
Receptacle Interior	61-BA920	61-CA920	61-BA920-SS	61-CA920-SS
Receptacle Contact (Qty = 13)*	61-BA213	61-CA213	61-BA213	61-CA213
Receptacle Casing**	61-3A305	61-6A305	39-1A024-SS	39-3A024-SS
Device Gasket	61-3AM26	31-3AM26	39-1A026-SS	31-3AM26

* If the DSN24c or 37c device was originally purchased before February 2013, contact customer service for parts.

** If the DSN24c or 37c device was originally purchased before March 2015, contact customer service for casing parts.

	PN7c POLY	PN7c METAL	PN12c POLY	PN12c METAL
1 Receptacle Interior & Retaining Ring	01-PA920	09-PA920	01-AA920	09-AA920
2 Receptacle Contact (PN12c Qty = 13)*	09-PA921	09-PA921	31-CA213	31-CA213
3 Device Gasket	61-1AM26	61-1AM26	61-1AM26	61-1AM26
4 Receptacle Casing	01-NA024	09-NA024	01-NA024	09-NA024
5 Ground Contact	09-PA929	09-PA929	-	-

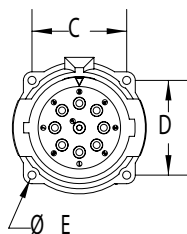
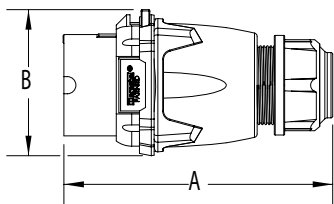
* If the PN12c device was purchased before March 2013, contact customer service for parts.

	DN9c METAL	DN20c METAL	DS7c/ DR7c POLY	DS7c/ DR7c METAL
1 Receptacle Interior	19-1A920	19-6A920	Receptacle Casing	31-6A024
2 Receptacle Contact (Short/Outside)	19-1A921	19-6A921	Receptacle Phase Contact	31-3A921
2 Receptacle Contact (Long/Inside)	19-1A721	19-6A721	Receptacle Pilot Contact	31-3A921-172
3 Receptacle Ground Contact	19-1A929	19-6A929	Receptacle Interior	31-3A920-263
4 Receptacle Casing	19-1A024	19-6A024	Device Gasket	31-6AM26
5 Lid, Gasket, Roll Pin & Spring	19-1A925	19-6A925	Ground Contact	31-3A929
6 Device Gasket	31-3A026	31-9A026		

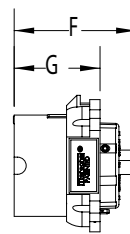
DN DIMENSIONS Inlet – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug

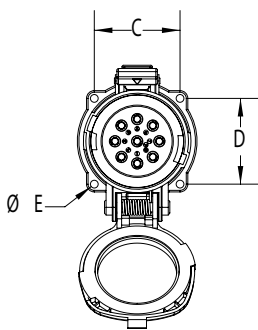
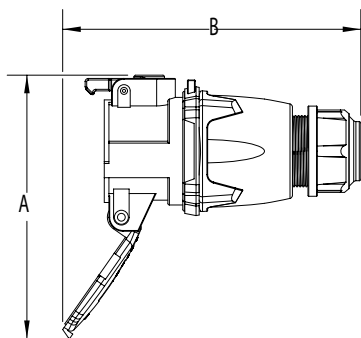


Inlet

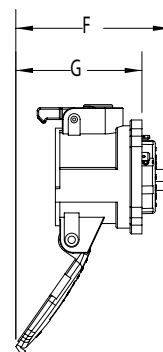


PRODUCT	A	B	C	D	ØE	F	G
DN9c	5.79	3.39	2.19	2.19	0.20	2.60	2.01
DN20c	10.75	4.92	3.20	3.20	0.24	4.48	3.50

Connector

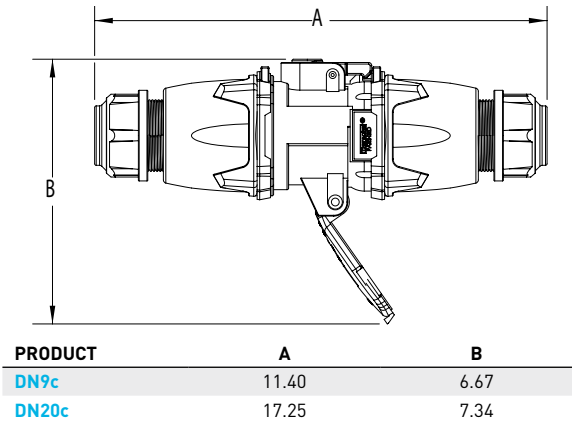


Receptacle

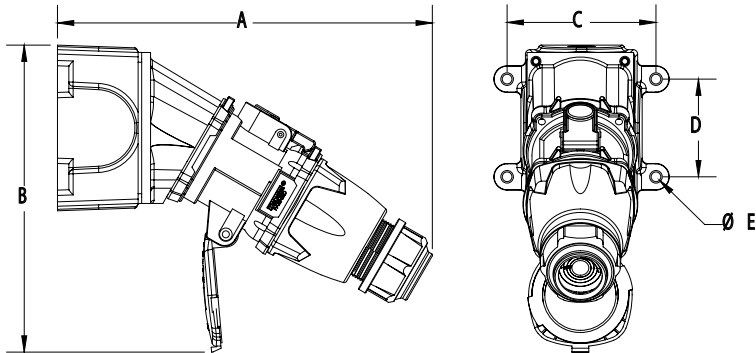


PRODUCT	A	B	C	D	E	F	G
DN9c	3.86	7.55	2.19	2.19	0.20	5.51	4.92
DN20c	5.20	12.12	3.20	3.20	0.24	6.14	7.68

Connector/Plug



Box/30° Angle/
Receptacle/Plug



STANDARD DUTY

Plugs & Receptacles



MELTRIC's Standard Duty plugs and receptacles provide safe, economical and robust connections for applications up to 400 A. Each device features MELTRIC's spring-loaded, silver-nickel butt-style contacts for consistent and reliable connections. Exclusive safety features ensure operator safety.



DR P. 83

LARGER AMPERAGE RANGE

- 30 A to 400 A, Type 3R
- Poly or metal casings (most sizes)
- Larger conductor capacities



PN P. 101

COMPACT & DURABLE

- 15 A to 20 A
- Up to 600V

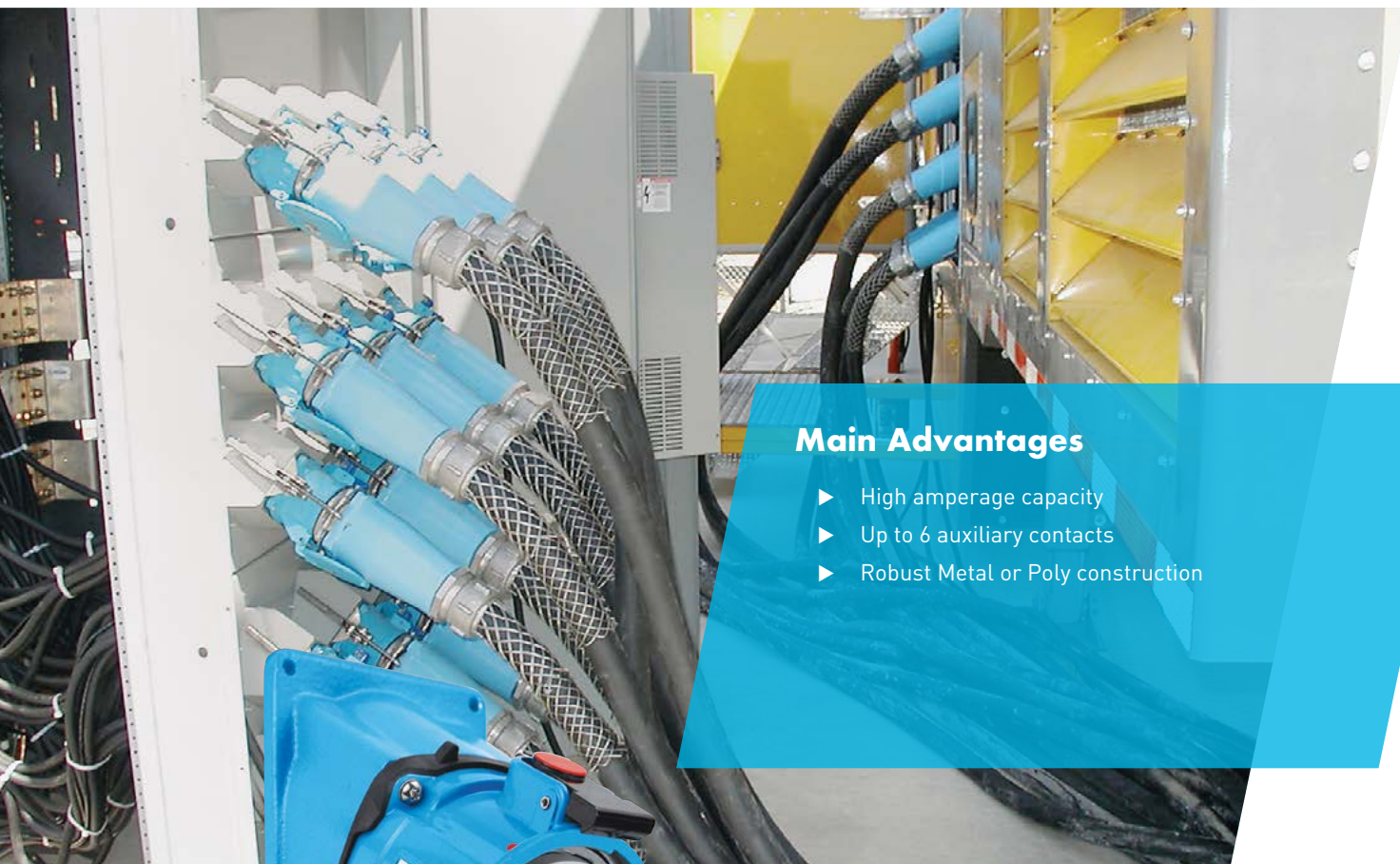


PNHT P. 109

HIGH TEMPERATURE APPLICATIONS

- Temperatures up to 465°F
- Up to 30 A, 480V, IP44

DR Standard Duty Plug and Receptacle



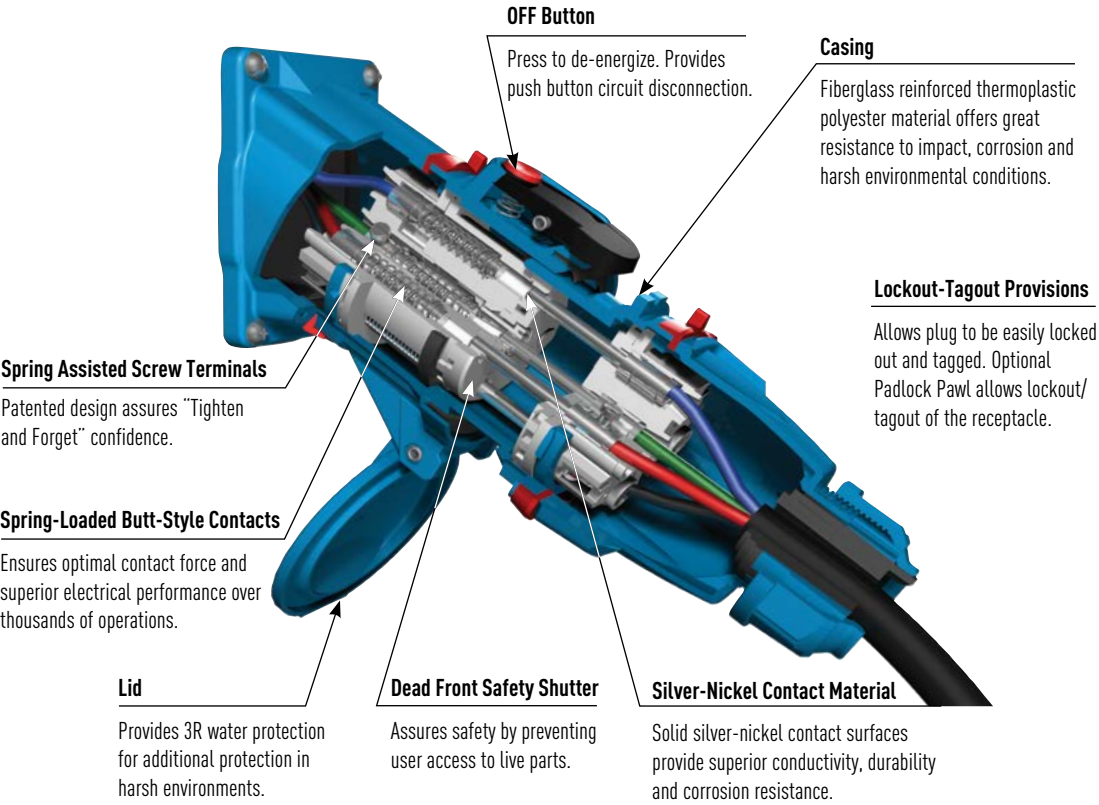
Main Advantages

- ▶ High amperage capacity
- ▶ Up to 6 auxiliary contacts
- ▶ Robust Metal or Poly construction



- | | | | |
|------------------------|-------|---------------|-------|
| ▶ Features and Ratings | p. 84 | ▶ DR250 | p. 93 |
| ▶ DR30 | p. 85 | ▶ DR400 | p. 95 |
| ▶ DR50 | p. 87 | ▶ Spare Parts | p. 97 |
| ▶ DR100 | p. 89 | ▶ Dimensions | p. 99 |
| ▶ DR150 | p. 91 | | |

PRODUCT FEATURES



General Ratings

Amperage	30 to 400 A
Voltage	600 VAC
Frequency	50-400 Hz
Short-Circuit (Make & Withstand)	10kA to 100kA*
Environmental	Type 3R, Type 4X optional
Temperature	min -40°F/max 140°F

* DR30, 50 & 100 are rated 100kA; DR150, 250 and 400 are 10kA to 65kA. Testing was performed with RK1 current limiting fuses sized at at least 100% of the devices ampacity rating.

Current Interruption Listings

Model	Current Interruption Capabilities
DR30	Not for current interrupting
DR50	For current interrupting up to 250 VAC***
DR100	For current interrupting up to 250 VAC***
DR150	For current interrupting up to 250 VAC***
DR250	Not for current interrupting
DR400	Not for current interrupting

*** Devices rated for current interrupting are not intended for repetitive switching duties.

Listings

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1

CE ratings available upon request.

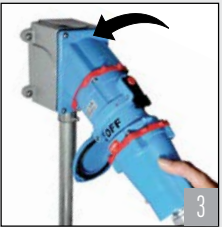
Operating Instructions



When the plug and receptacle are latched together, the circuit is connected.



Pressing the pawl breaks the connection and opens the circuit. The plug is ejected to its rest position; The contacts are now dead.



Rotating the 'dead' plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.



The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

DR30 Standard Duty Plugs & Receptacles – 30 A

UL/CSA Ratings

- **Max Amperage & Voltage**
30 A, 600 VAC
- **Current Interruption Capability**
Not for current interrupting
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**
100kA
Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	31-14235-K16	31-18235-K16
120 208V	3P+N+G	31-14237-K16	31-18237-K16
125V	1P+N+G	31-14175-K07	31-18175-K07
125 250V	2P+N+G	31-14176-K07	31-18176-K07
208V	2P+G	31-14232-K16	31-18232-K16
208V	3P+G	31-14233-K16	31-18233-K16
250V	2P+G	31-14172-K07	31-18172-K07
250V	3P+G	31-14173-K07	31-18173-K07
277V	1P+N+G	31-14245-K04	31-18245-K04
277 480V	3P+N+G	31-14247-K04	31-18247-K04
347 600V	3P+N+G	31-14187-K14	31-18187-K14
480V	2P+G	31-14242-K04	31-18242-K04
480V	3P+G	31-14243-K04	31-18243-K04
600V	2P+G	31-14182-K14	31-18182-K14
600V	3P+G	31-14183-K14	31-18183-K14

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972
Type 4X & Closed Lid Configuration	Recept # - 4X
Mushroom Pawl	Recept # - 375
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375-843
Locking Mushroom Pawl	Recept # - 845
Metal Pawl (on poly receptacle)	Recept # - 824
Closed Lid Configuration	Recept # - NC
With Auxiliary Switch	Recept # - 270+

Notes: + Not UL/CSA listed.

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts	Inlet # - 972
Type 4X Watertightness	Inlet # - 4X
With No Lockout Hole	Inlet # - A155
For Auxiliary Switch	Inlet # - NNF*

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

! See pages 233-242 for detailed information on these options

Order Example: 480V DR30 + 2 auxiliary contacts
DR30 Poly inlet 3P+G = 31-18243-K04-**972**

INSTALLATION ACCESSORIES – SIZE 2

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT	Part # Poly	Part # Metal
 Poly 1/2"	512P0N05	592P0N05
 Poly 3/4"	512P0N07	592P0N07
 Metal 1"	512P0N10	592P0N10
 Metal 1 1/4"	512P0N12	–

For available cord grips, see pg 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	712P0BP6
	.520 - .680"	712P0CP5
	.680 - .980"	712P0DP4
	.980 - 1.260"	712P0EP4

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.438 - .500"	792P0BS3
	.500 - .562"	792P0BS4
	.562 - .625"	792P0CS2
	.625 - .750"	792P0CS4
	.750 - .875"	792P0DS1
	.875 - 1.000"	792P0DS3

POLY HANDLE	Cable Range	Part #
	.20 - .83"	512P0D21

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	.750 - .875"	712P0S14
	.875 - 1.000"	712P0S16
	1.000 - 1.125"	712P0S18
	1.125 - 1.250"	712P0S20
	1.250 - 1.375"	712P0S22

ANGLES

POLY ANGLE	Angle	Part #
	30°	512M3
	70°	512M7
METAL ANGLE	Angle	Part #
	0°	592M0
	30°	592M3
	FS/FD Box 30°	792M3FS

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

BOXES

POLY CONDUIT ENTRY w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	512B3N05	For poly devices only
	30°	3/4"	512B3N07	* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE	Angle	Part #	Notes
	70°	512C7000	70° poly boxes are not drilled. Contact customer service if factory drilling is required.
			* Interior volume with receptacle installed.

	Ground Bar	51AA089
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POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
	70°	1/2"	712C7N05	
	70°	3/4"	712C7N07	
	70°	1"	712C7N10	* Interior volume with receptacle installed.
	70°	1 1/4"	712C7N12	
	70°	1 1/2"	712C7N15	

METAL BOX w/NPT	Angle	Size	Part #
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	712C3N05	For metal angle, replace "71" prefix with "79".
	30°	3/4"	712C3N07	
	30°	1"	712C3N10	* Interior volume with receptacle installed
	30°	1 1/4"	712C3N12	

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES	Part #	Notes
	61-3A346	Set of Two (2) Recommended for cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	Part #	Notes
	31-1A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	Part #	Notes
	DS1PC	For Inlets/Plugs Only.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	Part #	Notes
	31-1A226	For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES	Part #	Notes
	see pg 162	Mount to existing boxes.

RECEPTACLE LOCKING PIN	Part #	Notes
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR50 Standard Duty Plugs & Receptacles – 50 A

UL/CSA Ratings

- **Max Amperage & Voltage**
50 A, 600 VAC
- **Current Interruption Capability**
For current interrupting up to 250 VAC
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**
100kA
Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 12 AWG Max 4 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	31-34235-K16	31-38235-K16
120 208V	3P+N+G	31-34237-K16	31-38237-K16
125V	1P+N+G	31-34175-K07	31-38175-K07
125 250V	2P+N+G	31-34176-K07	31-38176-K07
208V	2P+G	31-34232-K16	31-38232-K16
208V	3P+G	31-34233-K16	31-38233-K16
250V	2P+G	31-34172-K07	31-38172-K07
250V	3P+G	31-34173-K07	31-38173-K07
277V	1P+N+G	31-34245-K04	31-38245-K04
277 480V	3P+N+G	31-34247-K04	31-38247-K04
347 600V	3P+N+G	31-34187-K14	31-38187-K14
480V	2P+G	31-34242-K04	31-38242-K04
480V	3P+G	31-34243-K04	31-38243-K04
600V	2P+G	31-34182-K14	31-38182-K14
600V	3P+G	31-34183-K14	31-38183-K14

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration
Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 973

With 3 Auxiliary/Pilot Contacts

Inlet # - 973

With 4 Auxiliary/Pilot Contacts

Recept # - 974

With 4 Auxiliary/Pilot Contacts

Inlet # - 974

Type 4X & Closed Lid Configuration

Recept # - 4X

Type 4X Watertightness

Inlet # - 4X

Mushroom Pawl

Recept # - 375

With No Lockout Hole

Inlet # - A155

Padlock Pawl

Recept # - 843

For Auxiliary Switch

Inlet # - NNF*

Padlockable Mushroom Pawl

Recept # - 375-843

Locking Mushroom Pawl

Recept # - 845

Metal Pawl (on poly receptacle)

Recept # - 824

Closed Lid Configuration

Recept # - NC

With Auxiliary Switch

Recept # - 270+

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

Notes: + Not UL/CSA listed.

! See pages 233-242 for detailed information on these options

Order Example: 480V DR50 + 2 auxiliary contacts
DR50 Poly inlet 3P+G = 31-38243-K04-972

INSTALLATION ACCESSORIES – SIZE 3

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	513P0N05	593P0N05
	3/4"	513P0N07	593P0N07
	1"	513P0N10	593P0N10
	1 1/4"	513P0N12	593P0N12

For available cord grips, see pg 165.

POLY HANDLE w/CORD GRIP		Cable Range	Part #
		.520 - .680"	713P0CP5
		.680 - .980"	713P0DP4
		.980 - 1.260"	713P0EP4

METAL HANDLE w/CORD GRIP		Cable Range	Part #
		.625 - .750"	793P0CS4
		.750 - .875"	793P0DS1
		.875 - 1.000"	793P0DS3
		1.000 - 1.125"	793P0ES2

POLY HANDLE		Cable Range	Part #
		.39 - 1.18"	513P0D30

POLY HANDLE w/BUILT IN DRAW GRIPS		Cable Range	Part #
		.39 - 1.18"	513P0D30473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		Cable Range	Part #
		.750 - .875"	713P0S14
		.875 - 1.000"	713P0S16
		1.000 - 1.125"	713P0S18
		1.125 - 1.250"	713P0S20
		1.250 - 1.375"	713P0S22

ANGLES

POLY ANGLE					
	30°	513M3		70°	513M7

METAL ANGLE			
	0°	593M0	
	30°	593M3	
	FS/FD Box 30°	793M3FS	

* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

	70°	593M7	
---	-----	-------	--

BOXES

POLY CONDUIT ENTRY w/NPT			Part #
	30°	3/4"	513B3N07
	30°	1"	513B3N10

For poly devices only
* Interior volume with receptacle installed.

* 13.5 in³

POLY WALL BOX w/ANGLE		Part #
	70°	513C7000

70° poly boxes are not drilled. Contact customer service if factory drilling is required.

* Interior volume with receptacle installed.

* 179.41 in³

	Ground Bar	51AA089
---	------------	---------

POLY ANGLE WITH METAL BOX w/NPT			
	70°	1/2"	713C7N05
	70°	3/4"	713C7N07
	70°	1"	713C7N10
	70°	1 1/4"	713C7N12
	70°	1 1/2"	713C7N15

* Interior volume with receptacle installed.

* 177.7 in³

METAL BOX w/NPT			
	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	713C3N05
	30°	3/4"	713C3N07
	30°	1"	713C3N10
	30°	1 1/4"	713C3N12

For metal angle, replace "71" prefix with "79".

* Interior volume with receptacle installed

* 29.6 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES	
	61-6A346 Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	
	31-3A426 For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	
	DS3PC Poly - For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	
	31-3A226 For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES	
	see pg 162 Mount to existing boxes.

RECEPTACLE LOCKING PIN	
	LP-843 Requires Padlockable Pawl option (-843) on receptacle.

DR100 Standard Duty Plugs & Receptacles – 100 A

UL/CSA Ratings

- **Max Amperage & Voltage**
100 A, 600 VAC
- **Current Interruption Capability**
For current interrupting up to 250 VAC
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**
100kA
Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 10 AWG Max 2 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	31-64235-K16	39-64235-K16	31-68235-K16	39-68235-K16
120 208V	3P+N+G	31-64237-K16	39-64237-K16	31-68237-K16	39-68237-K16
125V	1P+N+G	31-64175-K07	39-64175-K07	31-68175-K07	39-68175-K07
125 250V	2P+N+G	31-64176-K07	39-64176-K07	31-68176-K07	39-68176-K07
208V	2P+G	31-64232-K16	39-64232-K16	31-68232-K16	39-68232-K16
208V	3P+G	31-64233-K16	39-64233-K16	31-68233-K16	39-68233-K16
250V	2P+G	31-64172-K07	39-64172-K07	31-68172-K07	39-68172-K07
250V	3P+G	31-64173-K07	39-64173-K07	31-68173-K07	39-68173-K07
277V	1P+N+G	31-64245-K04	39-64245-K04	31-68245-K04	39-68245-K04
277 480V	3P+N+G	31-64247-K04	39-64247-K04	31-68247-K04	39-68247-K04
347 600V	3P+N+G	31-64187-K14	39-64187-K14	31-68187-K14	39-68187-K14
480V	2P+G	31-64242-K04	39-64242-K04	31-68242-K04	39-68242-K04
480V	3P+G	31-64243-K04	39-64243-K04	31-68243-K04	39-68243-K04
600V	2P+G	31-64182-K14	39-64182-K14	31-68182-K14	39-68182-K14
600V	3P+G	31-64183-K14	39-64183-K14	31-68183-K14	39-68183-K14

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration
Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts **Recept # - 972**
 With 3 Auxiliary/Pilot Contacts **Recept # - 263**
 With 4 Auxiliary/Pilot Contacts **Recept # - 264**
 Type 4X & Closed Lid Configuration **Recept # - 4X**
 Mushroom Pawl **Recept # - 375**
 Padlock Pawl **Recept # - 843**
 Padlockable Mushroom Pawl **Recept # - 375-843**
 Locking Mushroom Pawl **Recept # - 845**
 Metal Pawl (on poly receptacle) **Recept # - 824**
 180° Opening Lid (metal only) **Recept # - 180++**
 Closed Lid Configuration **Recept # - NC**
 With Auxiliary Switch **Recept # - 270+**

With 2 Auxiliary/Pilot Contacts **Inlet # - 972**
 With 3 Auxiliary/Pilot Contacts **Inlet # - 263**
 With 4 Auxiliary/Pilot Contacts **Inlet # - 264**
 Type 4X Watertightness **Inlet # - 4X**
 With No Lockout Hole **Inlet # - A155**
 For Auxiliary Switch **Inlet # - NNF***

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

Notes: + Not UL/CSA listed.
 ++ Required when mating to rigid mounted male inlet.

Order Example: 480V DR100 + 2 auxiliary contacts
 DR100 Poly inlet 3P+G = 31-68243-K04-972

! See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 4

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	514P0N05	594P0N05
	3/4"	514P0N07	594P0N07
	1"	514P0N10	594P0N10
	1 1/4"	514P0N12	594P0N12
	1 1/2"	514P0N15	594P0N15

For metal devices only

For available cord grips, see pg 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	714P0DP4
	.980 - 1.260"	714P0EP4
	1.260 - 1.560"	714P0FP1

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.750 - .875"	794P0DS1
	.875 - 1.000"	794P0DS3
	1.000 - 1.125"	794P0ES2
	1.250 - 1.375"	794P0FS1
	1.438 - 1.562"	794P0FS2*
	1.562 - 1.688"	794P0FS3*

For metal devices only

*May require stripping of cable jacket.

POLY HANDLE	Cable Range	Part #
	.51 - 1.38"	514P0D35

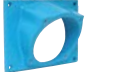
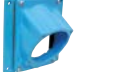
POLY HANDLE w/BUILT IN DRAW GRIPS	Cable Range	Part #
	.51 - 1.38"	514P0D35473

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	1.250 - 1.375"	714P0S22
	1.438 - 1.562"	714P0S25
	1.562 - 1.688"	714P0S27
	1.688 - 1.812"	714P0S29

ANGLES

POLY ANGLE	Angle	Part #
	30°	514M3
	70°	514M7

METAL ANGLE	Angle	Part #
	0°	594M0
	30°	594M3
	30°	794M3L
	Oversized 30°	794M3
	70°	594M7

Mounts on oversize box only. Order with 7T5F0Nxx. See pg 50.

BOXES

POLY CONDUIT ENTRY w/NPT	Angle	Size	Part #	Notes
	30°	1/2"	514B3N05	For poly devices only
	30°	3/4"	514B3N07	
	30°	1"	514B3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	514B3N12	

* 27.7 in³

POLY WALL BOX w/ANGLE	Angle	Part #	Notes
	70°	514C7000	70° poly boxes are not drilled. Contact customer service if factory drilling is required.
	Ground Bar	51AA089	* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
	70°	1/2"	714C7N05	* Interior volume with receptacle installed.
	70°	3/4"	714C7N07	
	70°	1"	714C7N10	
	70°	1 1/4"	714C7N12	
	70°	1 1/2"	714C7N15	
	70°	1 1/2"	714C7N15	

* 177.7 in³

METAL BOX w/NPT	Angle	Size	Part #
	0°	1"	7T4F0N10
	0°	1 1/4"	7T4F0N12
	0°	1 1/2"	7T4F0N15
	0°	2"	7T4F0N20

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #	Notes
	30°	1"	714C3N10	For metal angle, replace "71" prefix with "79".
	30°	1 1/4"	714C3N12	
	30°	1 1/2"	714C3N15	
	30°	2"	714C3N20	

* 61.0 in³ Poly Angle

* 59.4 in³ Metal Angle

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES	Part #	Notes
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	Part #	Notes
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	Part #	Notes
	DS6PC	Poly – For Inlets/Plugs Only.
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	Part #	Notes
	31-6A226	For Poly Inlets/Plugs Only.
	39-6A226	For Metal Inlets/Plugs Only.

-A155 suffix required to maintain water ingress protection.

RECEPTACLE LOCKING PIN	Part #	Notes
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR150 Standard Duty Plugs & Receptacles – 150 A

UL/CSA Ratings

- **Max Amperage & Voltage**
150 A, 600 VAC
- **Current Interruption Capability**
For current interrupting up to 250 VAC
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**
65kA
Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- **Environmental Ratings**
Type 4X (Poly Standard)
Type 3R (Metal Standard)
Type 4X (Metal Optional)
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 4 AWG Max 2/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 1682, CSA 182.1

Receptacle (female)

Inlet (male)



North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	31-94235-K16	39-94235-K16	31-98235-K16	39-98235-K16
120 208V	3P+N+G	31-94237-K16	39-94237-K16	31-98237-K16	39-98237-K16
125V	1P+N+G	31-94175-K07	39-94175-K07	31-98175-K07	39-98175-K07
125 250V	2P+N+G	31-94176-K07	39-94176-K07	31-98176-K07	39-98176-K07
208V	2P+G	31-94232-K16	39-94232-K16	31-98232-K16	39-98232-K16
208V	3P+G	31-94233-K16	39-94233-K16	31-98233-K16	39-98233-K16
250V	2P+G	31-94172-K07	39-94172-K07	31-98172-K07	39-98172-K07
250V	3P+G	31-94173-K07	39-94173-K07	31-98173-K07	39-98173-K07
277V	1P+N+G	31-94245-K04	39-94245-K04	31-98245-K04	39-98245-K04
277 480V	3P+N+G	31-94247-K04	39-94247-K04	31-98247-K04	39-98247-K04
347 600V	3P+N+G	31-94187-K14	39-94187-K14	31-98187-K14	39-98187-K14
480V	2P+G	31-94242-K04	39-94242-K04	31-98242-K04	39-98242-K04
480V	3P+G	31-94243-K04	39-94243-K04	31-98243-K04	39-98243-K04
600V	2P+G	31-94182-K14	39-94182-K14	31-98182-K14	39-98182-K14
600V	3P+G	31-94183-K14	39-94183-K14	31-98183-K14	39-98183-K14

Main Options



Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 262	With 2 Auxiliary/Pilot Contacts	Inlet # - 262
With 3 Auxiliary/Pilot Contacts	Recept # - 263	With 3 Auxiliary/Pilot Contacts	Inlet # - 263
With 4 Auxiliary/Pilot Contacts	Recept # - 264	With 4 Auxiliary/Pilot Contacts	Inlet # - 264
With 5 Auxiliary/Pilot Contacts	Recept # - 975	With 5 Auxiliary/Pilot Contacts	Inlet # - 975
With 6 Auxiliary/Pilot Contacts	Recept # - 976	With 6 Auxiliary/Pilot Contacts	Inlet # - 976
Type 4X & Closed Lid Configuration	Recept # - 4X ⁱ	Type 4X Watertightness	Inlet # - 4X ⁱ
Mushroom Pawl	Recept # - 375	With No Lockout Hole	Inlet # - A155
Padlock Pawl	Recept # - 843	For Auxiliary Switch	Inlet # - NNF*
Padlockable Mushroom Pawl	Recept # - 375-843		
Locking Mushroom Pawl	Recept # - 845		
Metal Pawl (on poly receptacle)	Recept # - 824		
180° Opening Lid	Recept # - 180+ ⁺		
Closed Lid Configuration	Recept # - NC		
With Auxiliary Switch	Recept # - 270+		

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.
ⁱ Metal devices only.

! See pages 233-242 for detailed information on these options

Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.
ⁱ Metal devices only.

Order Example: 480V DR150 + 2 auxiliary contacts
DR150 Poly inlet 3P+G = 31-98243-K04-972

INSTALLATION ACCESSORIES – SIZE 5

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	3/4"	515P0N07	595P0N07
	1"	515P0N10	595P0N10
	1 1/4"	515P0N12	595P0N12
	1 1/2"	515P0N15	595P0N15
	2"	515P0N20	595P0N20
For metal devices only			

For available cord grips, see pg 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.980 - 1.260"	715P0EP4
	1.260 - 1.560"	715P0FP1
	1.520 - 1.860"	715P0GP2

METAL HANDLE w/CORD GRIP		
	1.250 - 1.375"	795P0FS1
	1.438 - 1.562"	795P0FS2*
	1.562 - 1.688"	795P0FS3*
	1.688 - 1.812"	795P0GS1
	*May require stripping of cable jacket.	

For metal devices only

METAL OVERSIZED HANDLE w/NPT		
	3/4"	795P0N07
	1"	795P0N10
	1 1/4"	795P0N12
	1 1/2"	795P0N15
	2"	795P0N20
	2 1/2"	795P0N25

For available cord grips, see pg 165.

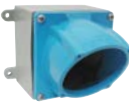
SANTOPRENE HANDLE		
	.70 - 1.000"	555P0D25
	.984 - 1.377"	555P0D35
	1.378 - 1.771"	555P0D45

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	715P0S22
	1.438 - 1.562"	715P0S25
	1.562 - 1.688"	715P0S27
	1.688 - 1.812"	715P0S29

ANGLES

POLY ANGLE		
	30°	515M3
METAL ANGLE		
	0°	595M0
	30°	595M3
	Oversized 30°	795M3
		Mounts on oversize metal box only. Order with 7T6F0N25XL. See pg 52.
	70°	595M7

BOXES

POLY ANGLE WITH METAL BOX w/NPT		Part #	
	30°	1 1/4"	715C3N12
	30°	1 1/2"	715C3N15
	30°	2"	715C3N20
* 108.7 in ³	30°	2 1/2"	715C3N25

* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX w/NPT			
	30°	1 1/4"	795C3N12
	30°	1 1/2"	795C3N15
	30°	2"	795C3N20
* 111.8 in ³	30°	2 1/2"	795C3N25

* Interior volume with receptacle installed.

METAL BOX w/NPT			
	0°	1 1/4"	7T5F0N12
	0°	1 1/2"	7T5F0N15
	0°	2"	7T5F0N20
	0°	2 1/2"	7T5F0N25

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	31-9A426	For Inlets/Plugs Only. Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability.

PADLOCKABLE INLET/PLUG CAP		
	DS9MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

CORD GRIP with MESH		
	see pg 165	

EASY RETROFIT ADAPTER PLATES		
	see pg 162	Mount to existing boxes.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR250 Standard Duty Plugs & Receptacles – 250 A

UL/CSA Ratings

- **Max Amperage & Voltage**
250 A, 600 VAC
- **Current Interruption Capability**
Not for current interrupting
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**
10kA
Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- **Environmental Ratings**
Type 3R (Standard)
Type 4X (Optional)
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 4 AWG Max 4/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- **Certifications**
UL 1682, CSA 182.1

Receptacle (female)

Easy Closing Mechanism



If you have an existing removable and/or permanently attached drawbar, contact customer service.



Don't forget to add installation accessories to your order



Inlet (male)



Tabs for latching to closing mechanism

North American UL/CSA Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	39-24235-K16	39-28235-K16
120 208V	3P+N+G	39-24237-K16	39-28237-K16
125V	1P+N+G	39-24035-K07	39-28035-K07
125 250V	2P+N+G	39-24036-K07	39-28036-K07
208V	2P+G	39-24232-K16	39-28232-K16
208V	3P+G	39-24233-K16	39-28233-K16
250V	2P+G	39-24032-K07	39-28032-K07
250V	3P+G	39-24033-K07	39-28033-K07
277V	1P+N+G	39-24245-K04	39-28245-K04
277 480V	3P+N+G	39-24247-K04	39-28247-K04
347 600V	3P+N+G	39-24027-K14	39-28027-K14
480V	2P+G	39-24242-K04	39-28242-K04
480V	3P+G	39-24243-K04	39-28243-K04
600V	2P+G	39-24022-K14	39-28022-K14
600V	3P+G	39-24023-K14	39-28023-K14

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972*
With 4 Auxiliary/Pilot Contacts	Recept # - 174+
With 6 Auxiliary/Pilot Contacts	Recept # - 976+
Type 4X & Closed Lid Configuration	Recept # - 4X
Mushroom Pawl	Recept # - 375
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375-843
Locking Mushroom Pawl	Recept # - 845
180° Opening Lid	Recept # - 180+++
Closed Lid Configuration	Recept # - NC
With Auxiliary Switch	Recept # - 270++

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts	Inlet # - 972*
With 4 Auxiliary/Pilot Contacts	Inlet # - 174+
With 6 Auxiliary/Pilot Contacts	Inlet # - 976+
Type 4X Watertightness	Inlet # - 4X
For Auxiliary Switch	Inlet # - NNF**
With No Lockout Hole	Inlet # - A155

Notes: * Customers needing to maintain compatibility with old style -172 auxiliary contacts should use a -172 suffix.

+ This option not available with N contact.

** Order inlet with P+N+G configuration and receptacle with P+G configuration.

Notes: * Customers needing to maintain compatibility with old style -172 auxiliary contacts should use a -172 suffix.

+ This option not available with N contact.

++ Not UL/CSA listed.

+++ Required when mating to rigid mounted male inlet.

Order Example: 480V DR250 + 2 auxiliary contacts
DR250 Metal inlet 3P+G = 39-28243-K04-972

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 6

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1	516P0N10	596P0N10
	1 1/4"	516P0N12	596P0N12
	1 1/2"	516P0N15	596P0N15
	2"	516P0N20	596P0N20
	2 1/2"	516P0N25	596P0N25
	3"	-	596P0N30

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	1.520 - 1.860"	716P0GP2
	1.850 - 2.190"	716P0GP3*

*May require stripping of cable jacket.

METAL HANDLE w/CORD GRIP	
	1.688 - 1.812" 796P0GS1
	1.812 - 1.938" 796P0GS2*
	1.938 - 2.062" 796P0JS1
	2.062 - 2.188" 796P0JS2
	2.188 - 2.312" 796P0JS3
	2.312 - 2.438" 796P0JS4*
	2.437 - 2.625" 796P0KS1
	2.625 - 2.812" 796P0KS2

*May require stripping of cable jacket.

METAL OVERSIZED HANDLE w/NPT	
	1 1/4" 597P0N12
	1 1/2" 597P0N15
	2" 597P0N20
	2 1/2" 597P0N25
	3" 597P0N30

For metal devices only

For available cord grips, see page 165.

SANTOPRENE HANDLE	
	.984 - 1.378" 556P0D35
	1.378 - 1.772" 556P0D45
	1.772 - 1.929" 556P0D49

IP66/IP67

ANGLES

METAL ANGLE	
	0° 596M0
	Oversized 45° 796M4 Mounts on oversize metal box only. Order with 7T6F0N25XL.
	60° 596M6
	Extended 60° 597M6

BOXES

METAL ANGLE WITH METAL BOX w/NPT			Part #
	60°	1 1/2"	796C6N15
	60°	2"	796C6N20
	60°	2 1/2"	796C6N25

* 248.4 in³

* Interior volume with receptacle installed.

METAL BOX w/NPT			Part #
	0°	1 1/2"	7T6F0N15
	0°	2"	7T6F0N20
	0°	2 1/2"	7T6F0N25

* Interior volume with receptacle installed.

METAL OVERSIZED BOX w/NPT			Part #
	0°	2"	7T6F0N20XL
	0°	2 1/2"	7T6F0N25XL
	0°	3"	7T6F0N30XL

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP	
	39-2A426 Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability. For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	
	DS2MC Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

CORD GRIP WITH MESH	
	see pg 165

RECEPTACLE LOCKING PIN	
	LP-843 Requires Padlockable Pawl option (-843) on receptacle.

DR400 Standard Duty Plugs & Receptacles – 400 A

UL/CSA Ratings

- **Max Amperage & Voltage**
400 A Max at 480 VAC
350 A Max at 600 VAC
- **Current Interruption Capability**
Not for current interrupting
- **Short Circuit Rating**
18kA
A withstand test was performed with RK1 current limiting fuses sized at at least 100% of the devices ampacity rating.
- **Environmental Ratings**
IP54/IP55*
*IP54 when the plug & receptacle are mated. IP55 on the receptacle alone when the lid is latched closed.
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 2 AWG Max 500 MCM*
Aux Contacts – 14 AWG (prewired)
* Wire size to 500 MCM can be accommodated through use of Cable Reducing Adapters. See Accessory Spotlight.
- **Certifications**
UL 1682
CSA 182.1

Receptacle (female)

Easy Closing Mechanism



Standard DR400 lid opens to 90°

Inlet (male)



Tabs for latching to closing mechanism

Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Metal	Part # Metal
208V	3P+G+2PIL	39-44163-172	39-48163-172
250V	3P+G+2PIL	39-44073-172	39-48073-172
480V	3P+G+2PIL	39-44043-172	39-48043-172
600V	3P+G+2PIL	39-44143-172*	39-48143-172*

* 350 A only for 600V models

Other voltage configurations are available - contact customer service at 800-433-7642

Key Feature

Standard Locking Pawl



DR400 receptacles are provided with a screw-type locking pawl that prevents accidental disconnections under load.

Receptacle Options

Suffix

Inlet Options

Suffix

IP66/IP67

Recept # - 4X

IP66/IP67

Inlet # - 4X

Closed Lid Configuration

Recept # - NC

With No Lockout Hole

Inlet # -A155

Order Example: DR400 with Cable Reducing Adapters

To accommodate 500 MCM cable, cable reducing adapters and an extended angle with spacer accessory is required.

Typical order: 480V 3P+G+2PIL



Receptacle: 39-44043-172 +



Angle: 5T7M6-68 +



Cable Reducers: PT500R350-3 (Qty3)



Inlet: 39-48043-172 +



Handle: 5T7PON25 +



Cable Reducers: PT500R350-3 (Qty3)

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 7

HANDLES

LARGE HANDLE w/NPT	Part #
 2"	5T7P0N20
2 1/2"	5T7P0N25
3"	5T7P0N30

LARGE HANDLE w/CORD GRIP w/MESH w/Cable Range	
 2.062 - 2.188"	5T7P0JT1
2.188 - 2.312"	5T7P0JT2
2.312 - 2.438"	5T7P0JT3*
2.437 - 2.625"	5T7P0KT1
2.625 - 2.812"	5T7P0KT2

*May require stripping of cable jacket.

STRAIGHT HANDLE w/BUSHING w/Cable Range	
 2.09 - 2.25"	5T7P0D57
2.25 - 2.44"	5T7P0D62
2.44 - 2.67"	5T7P0D68
2.67 - 2.87"	5T7P0D73

ANGLES

METAL ANGLE	
 0°	5T7M0
 Extended 60°	5T7M6
 Extended 60° with 68 mm spacer.	5T7M6-68

Provides space for Cable Reducing Adapters.

BOXES

METAL ANGLE WITH METAL BOX w/NPT	Part #
 0° 2"	7T7F0N20
0° 2 1/2"	7T7F0N25
0° 3"	7T7F0N30
0° 3 1/2"	7T7F0N35
0° 4"	7T7F0N40

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP	
 39-2A426	For Inlet/Plugs Only.

CABLE REDUCING ADAPTERS	
 PT535FX350-3	Reducer for 500 MCM Fine Stranded or Flexible Wire.
 PT500R350-3	Reducer for 500 MCM Coarse Stranded or Building Wire.
 PT400R350-3	Reducer for 400 MCM Wire.

SPACER	
 5T7M0-68	68mm (2.68") spacer is used (included) with metal 60° angle.

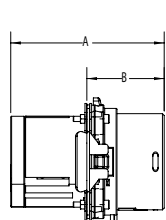
 5T7M0-115	115mm can be used when mounting to a panel - though the metal straight adapter is preferred.
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PADLOCKABLE INLET/PLUG CAP	
 DS2MC	Aluminum - For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

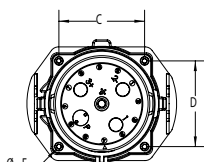
RECEPTACLE LOCKING PIN	
 LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DIMENSIONS – Provided in inches

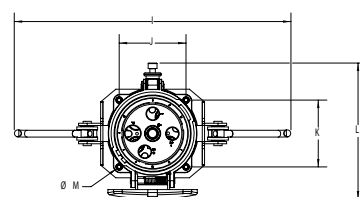
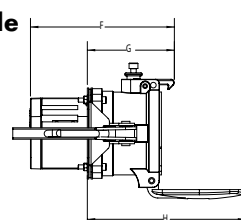
Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.



Inlet

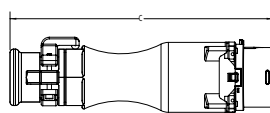
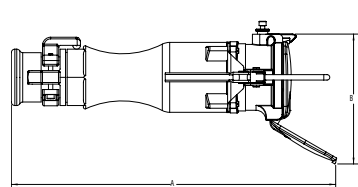


Receptacle

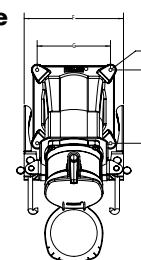
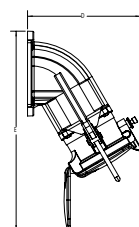


PRODUCT	A	B	C	D	E	F	G	H	I	J	K	L	øM
DR400	6.61	3.48	3.86	3.86	0.26	8.31	5.03	9.15	15.98	3.86	3.86	7.85	0.26

Plug

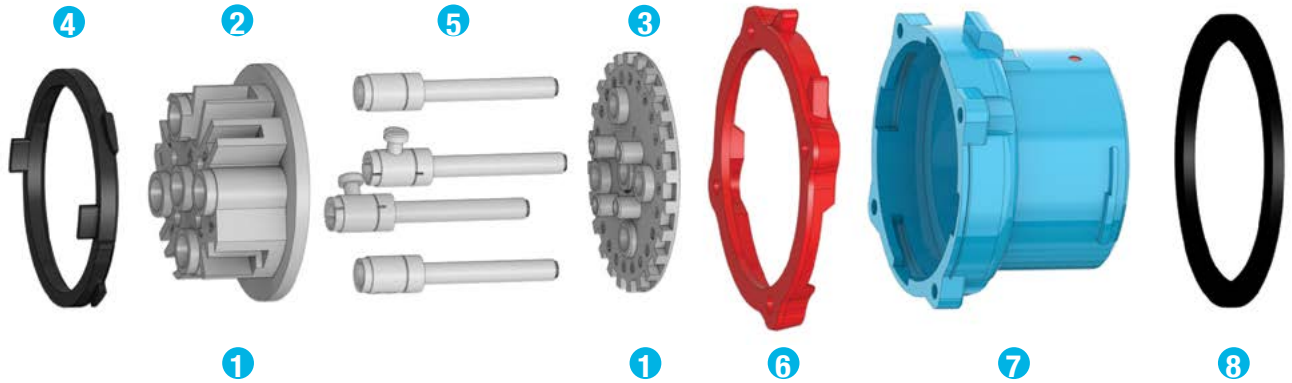


Angle/Receptacle



PRODUCT	A	B	C	D	E	F	G	H	I
DR400	23.56	9.43	19.10	10.02	17.64	8.80	6.50	6.50	0.28

DR SPARE PARTS Male Configuration



		DR30 POLY	DR50 POLY	DR100 POLY	DR100 METAL	DR150 POLY	DR150 METAL	DR250 METAL	DR400 METAL	
1	Plug Interior***	31-1A010*	31-3A010*	31-6A010*	31-6A010*	61-9A010*	69-9A010*	39-2A010*	-	
1	Plug Interior w/Ground Contacts***	-	-	-	39-6A110*	-	69-9A110*	39-2A110*	-	
1	Plug Interior with 2 Pilots+	31-1A310-972*	31-3A310-972*	31-6A310-972*	31-6A310-972*	61-9A310-262*	61-9A310-262*	39-2A310-172*	39-4A310-172*	
2	Interior Bottom***	31-1A010-B	31-3A010-B	31-6A010-B	31-6A010-B	61-9A551	69-9A551	39-2A010-B	39-4A010-B	
3	Interior Top***	31-1A010-T*	31-3A010-T*	31-6A010-T*	31-6A010-T*	61-9A010-T*	69-9A010-T*	39-2A010-T*	39-4A010-T*	
4	Polyester Locking Ring	31-1A583	31-3A583	31-6A583	-	31-9A583	-	-	-	
4	Metal Locking Ring	-	-	-	39-6A583	-	39-9A583	39-2A583	39-4A583	
5	Plug Phase Contact (If no aux. contacts)	31-1A011-380	31-3A011-380	31-6A011	31-6A011	61-9A011	61-9A011	39-2A011	-	
5	Plug Phase Contact (If plug has aux. contacts)	31-1A011	31-3A011-380	31-6A011	31-6A011	61-9A011	61-9A011	39-2A011	39-4A011	
5	Plug Ground Contact	31-1A019	31-3A019	31-6A019	39-6A019	61-9A019	69-9A019	39-2A019	39-4A019	
6	Color-Coded Voltage Gasket	125V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26	-
		208V	31-1AB26	31-3AB26	31-6AB26	31-6AB26	31-9AB26	31-9AB26	39-2AB26	-
		250V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26	-
		480V	31-1AR26	31-3AR26	31-6AR26	31-6AR26	31-9AR26	31-9AR26	39-2AR26	-
		600V	31-1AN26	31-3AN26	31-6AN26	31-6AN26	31-9AN26	31-9AN26	39-2AN26	-
7	Plug Polyester Casing w/Plug Gasket	31-1A014**	31-3A014**	31-6A014**	-	61-9A014**	-	-	-	
7	Plug Metal Casing w/Plug Gasket	-	-	-	39-6A014**	-	39-9A014**	39-2A014**	39-4A014**	
8	Type 4X Gasket	31-1A056	31-3A056	31-6A066	39-6A066	-	31-9A066	39-2A056	-	

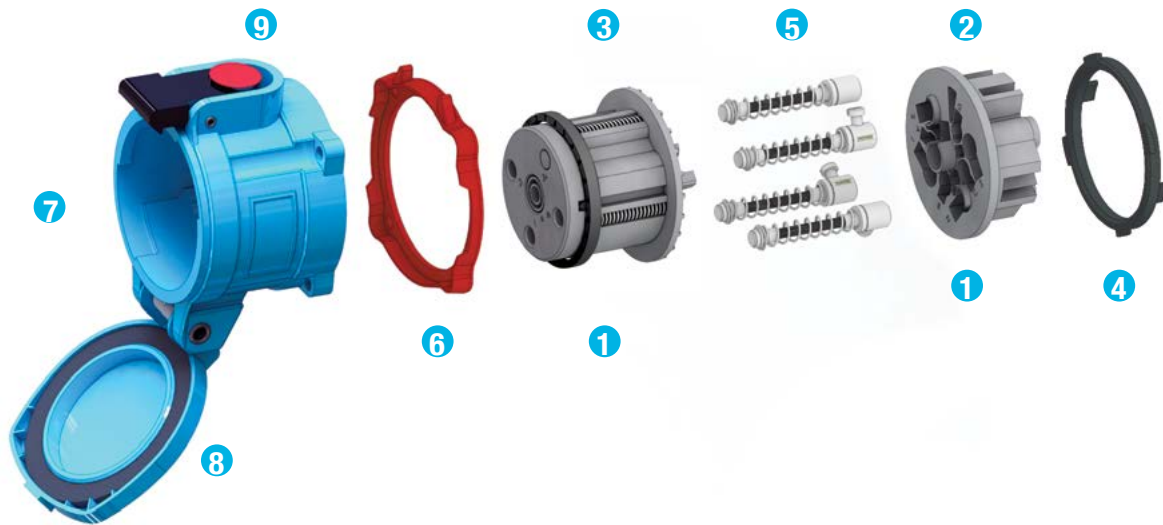
* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

*** For interiors with pilot contacts, contact Customer Service for part numbers.

+ For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

DR SPARE PARTS Female Configuration



		DR30 POLY	DR50 POLY	DR100 POLY	DR100 METAL	DR150 POLY	DR150 METAL	DR250 METAL	DR400 METAL	
1	Receptacle Interior***	31-1A020*	31-3A020*	31-6A020*	31-6A020*	61-9A020*	69-9A020*	39-2A020-A06*	-	
1	Recept Interior w/Ground Contacts***	-	-	-	39-6A220*	-	69-9A220*	39-2A220-A06*	-	
1	Receptacle Interior with 2 Pilots+	31-1A320-972*	31-3A320-972*	31-6A320-972*	31-6A320-972*	61-9A320-262*	61-9A320-262*	39-2A320-172-A06*	39-4A320-172*	
2	Interior Bottom***	31-1A020-B	31-3A020-B	31-6A020-B	31-6A020-B	61-9A552	69-9A552	39-2A020-B-A06	39-4A020-B	
3	Interior Top***	31-1A020-T*	31-3A020-T*	31-6A020-T*	31-6A020-T*	61-9A020-T*	69-9A020-T*	39-2A020-T*	39-4A020-T*	
4	Polyester Locking Ring	31-1A583	31-3A583	31-6A583	-	31-9A583	-	-	-	
4	Metal Locking Ring	-	-	-	39-6A583	-	39-9A583	39-2A583	39-4A583	
5	Recept Phase Contact (If no aux. contacts)	31-1A021-380	31-3A021-380	31-6A021	31-6A021	61-9A021	61-9A021	39-2A021-A06	-	
5	Recept Phase Contact (If plug has aux. contacts)	31-1A021	31-3A021-380	31-6A021	31-6A021	61-9A021	61-9A021	39-2A021-A06	39-4A021	
5	Recept Ground Contact	31-1A029	31-3A029	31-6A029	39-6A029	61-9A029	69-9A029	39-2A029-A06	39-4A029	
6	Color-Coded Voltage Gasket	125V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26	-
		208V	31-1AB26	31-3AB26	31-6AB26	31-6AB26	31-9AB26	31-9AB26	39-2AB26	-
		250V	31-1AC26	31-3AC26	31-6AC26	31-6AC26	31-9AC26	31-9AC26	39-2AC26	-
		480V	31-1AR26	31-3AR26	31-6AR26	31-6AR26	31-9AR26	31-9AR26	39-2AR26	-
		600V	31-1AN26	31-3AN26	31-6AN26	31-6AN26	31-9AN26	31-9AN26	39-2AN26	-
7	Receptacle Polyester Casing w/Lid	31-1A024**	31-3A024**	31-6A024**	-	61-9A024**	-	-	-	
7	Receptacle Metal Casing with Lid	-	-	-	39-6A024**	-	39-9A024**	39-2A024**	39-4A024** ++	
8	Lid Replacement Kit Polyester	31-1A125	31-3A125	31-6A425	-	61-9A125	-	-	-	
8	Lid Replacement Kit Metal	-	-	-	39-6A925	-	39-9A925	39-2A925	-	
9	Pawl Replacement Kit Polyester	31-1A824	31-3A824	31-6A824	-	61-9A824	-	-	-	
9	Pawl Replacement Kit Metal	39-1A824	39-3A824	39-6A824	39-6A824	69-9A924	39-9A824	39-2A824	-	

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

*** For interiors with 2 pilot contacts, contact Customer Service for part numbers.

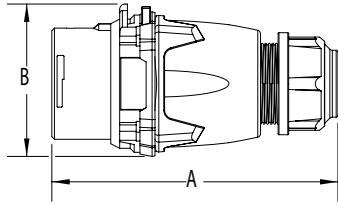
+ For interiors with more than 2 pilot contacts, contact Customer Service for part numbers.

++ For DR 400 Drawbar Accessory contact Customer Service.

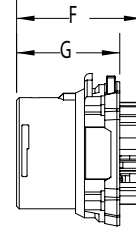
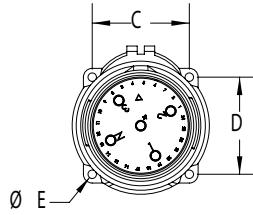
DR DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug

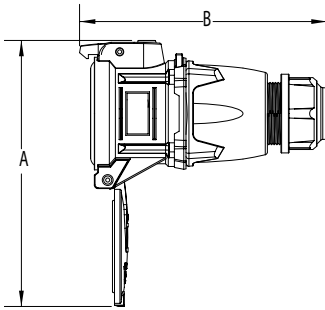


Inlet

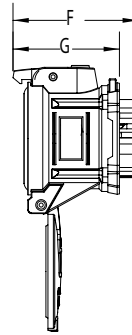
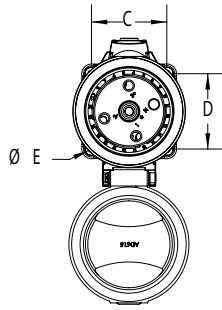


PRODUCT	A	B	C	D	ØE	F	G
DR30	5.72	2.79	1.89	1.89	0.20	2.28	1.86
DR50	6.15	3.23	2.17	2.17	0.20	2.93	2.07
DR100/DR7c	6.70	3.77	2.59	2.59	0.24	3.42	2.38
DR150	8.33	4.59	3.20	3.20	0.24	4.14	3.04
DR250	10.30	5.67	3.86	3.86	0.26	4.66	3.20

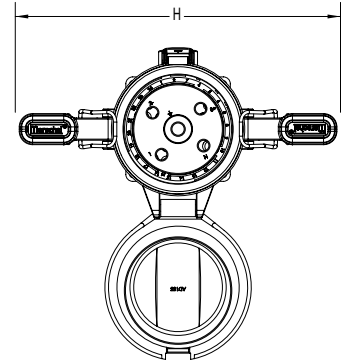
Connector



Receptacle

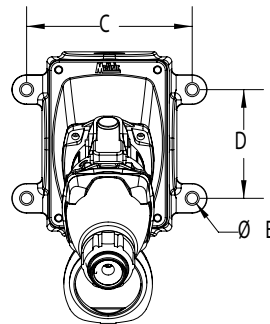
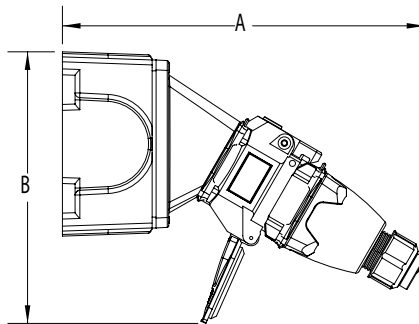


Extended Draw bars

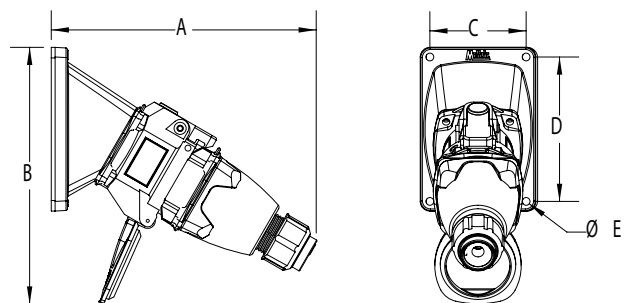


PRODUCT	A	B	C	D	ØE	F	G	H
DR30	6.32	6.38	1.89	1.89	0.20	3.30	2.60	N/A
DR50	7.16	6.93	2.17	2.17	0.20	3.73	2.87	N/A
DR100/DR7c	8.46	7.75	2.59	2.59	0.22	4.53	3.37	N/A
DR150	11.04	10.02	3.20	3.20	0.23	5.71	4.74	11.25
DR250	11.54	10.87	3.86	3.86	0.26	6.21	4.75	12.07

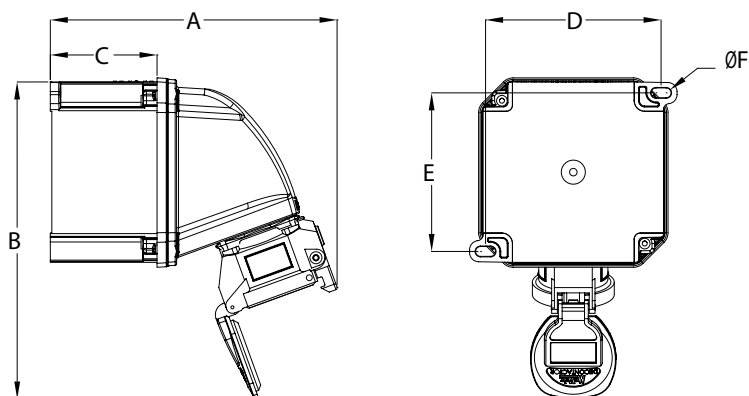
Box/30° Angle/ Receptacle/Plug



PRODUCT	A	B	C	D	ØE
DR30	9.84	7.29	4.19	2.75	0.27
DR50	10.30	8.39	4.19	2.75	0.27
DR100/DR7c	11.87	10.45	5.00	3.81	0.33
DR150	16.06	11.77	6.75	4.25	0.31
DR250	15.76	11.54	8.13	6.38	0.31

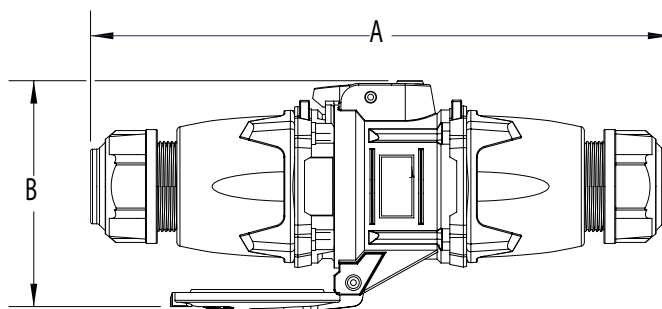
30° Angle/Receptacle/Plug

PRODUCT	A	B	C	D	ØE
DR30	7.60	7.87	2.50	3.75	0.22
DR50	8.19	8.44	2.50	3.75	0.22
DR100/DR7c	9.17	10.16	3.43	4.83	0.26
DR150	14.09	12.05	4.83	4.83	0.28
DR250	11.61	15.03	6.50	6.50	0.25

**70° Wall Box/
Receptacle**

PRODUCT	A	B	C	D	E	ØF
DR30	7.51	8.30	2.80	4.60	4.15	0.26
DR50	7.93	9.51	2.80	4.60	4.15	0.26
DR100/DR7c*	8.91	11.55	2.80	6.17	5.73	0.26

* Box has 4 mounting feet

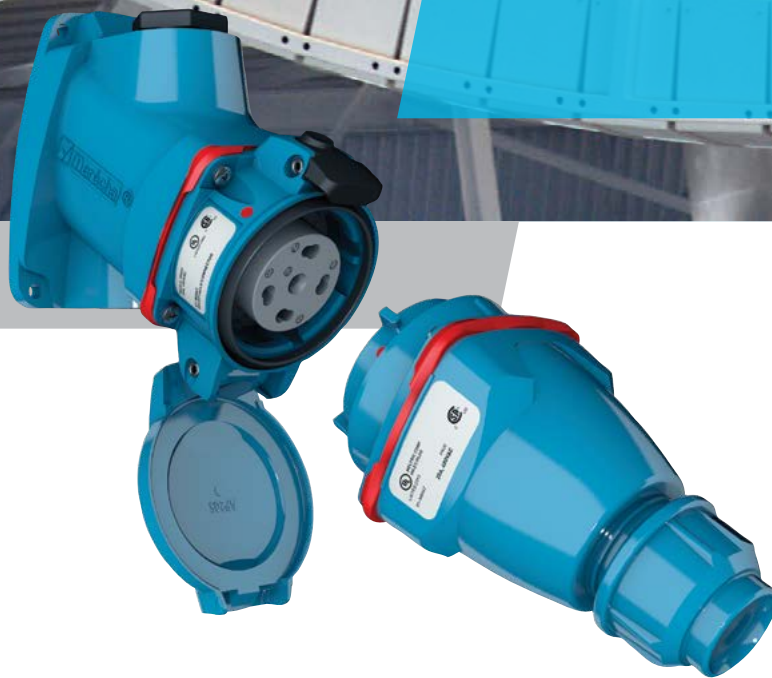
Plug/Connector

PRODUCT	A	B
DR30	10.20	4.61
DR50	10.91	5.71
DR100/DR7c	12.17	6.57
DR150	19.53	8.03
DR250	23.15	8.00

PN Standard Duty Plug and Receptacle

Main Advantages

- ▶ Compact yet durable device
- ▶ Spring-loaded silver-nickel devices
- ▶ Spring-assisted terminals are unaffected by vibrations and thermal cycling



- ▶ Features and Ratings p. 102
- ▶ PN20 p. 103
- ▶ Spare Parts p. 105
- ▶ Dimensions p. 107

PRODUCT FEATURES

Casing

Fiberglass reinforced thermoplastic polyester material offers great resistance to impact, corrosion and harsh environmental conditions.

Spring-Assisted Screw Terminals

Patented design assures "Tighten and Forget" confidence. (not shown)

Lid

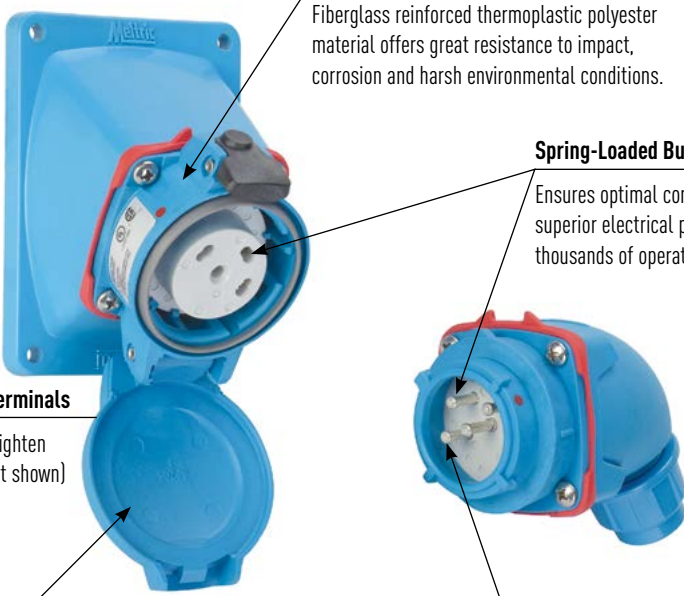
Provides additional protection from harsh environments.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Silver-Nickel Contact Material

Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.



General Ratings

Amperage	20 A
Voltage	600 VAC Max
Frequency	50-400 Hz
Environmental	IP66/IP67
Temperature	min -40°F/max 140°F (465° high temp model)

Current Interruption Listings

Model	Current Interruption Capabilities
PN20	For current interrupting

Highlighted Feature

PN Contact



PN devices feature silver-nickel, spring-loaded, butt-style contacts for superior durability and electrical performance.

Listings

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682*	C22.2 No. 182.1*	60309-1

* PN 20 A devices are UL and CSA listed for current interrupting. PNHT devices are not UL/CSA listed.

Operating Instructions



To break the circuit and remove the plug, press the pawl, apply inward force and rotate the plug clockwise.



The plug can be safely withdrawn from the receptacle. The plug contacts remain shrouded until after the circuit is broken.



To reconnect, align the red dots on the plug and receptacle bodies, insert plug into the receptacle, apply insertion force and rotate the plug 20° counterclockwise.

PN20 Compact Plugs & Receptacles – 20 A or 15 A (600V)

UL/CSA Ratings

- **Max Amperage & Voltage**
20 A, 600 VAC
- **Current Interruption Capability**
20 A Current Interrupting
(up to 480 VAC)
15 A Current Interrupting
(600 VAC)
- **Environmental Ratings**
Type 3R, Type 4X
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
- **Certifications**
UL 1682, CSA 182.01

IEC/CE Ratings

- **Environmental Ratings**
IP66/IP67*, IP54/IP55**
* IP66/IP67 provides advanced watertightness for washdown duty applications.
** IP55 provides rainproof watertightness with ease of connection convenience.
- **Applicable Standards**
CE

Notes: • 600V devices are rated for current interrupting up to 15 A only.

Receptacle female



! Don't forget to add installation accessories to your order



IP55 receptacle comes without a pawl.

Inlet male



The same male inlet is used for IP66/IP67 or IP55 watertight ratings.

North American UL/CSA Configurations

Voltage	Polarity	Part # IP66/IP67		Part # IP55		Part #	
		Poly	Metal	Poly	Metal	Poly	Metal
120V	1P+N+G	01-N4165	09-N4165	01-S4165	09-S4165	01-N8165	09-N8165
120 208V	3P+N+G	01-N4167	09-N4167	01-S4167	09-S4167	01-N8167	09-N8167
125V	1P+N+G	01-N4075	09-N4075	01-S4075	09-S4075	01-N8075	09-N8075
125 250V	2P+N+G	01-N4076	09-N4076	01-S4076	09-S4076	01-N8076	09-N8076
208V	2P+G	01-N4162	09-N4162	01-S4162	09-S4162	01-N8162	09-N8162
208V	3P+G	01-N4163	09-N4163	01-S4163	09-S4163	01-N8163	09-N8163
250V	2P+G	01-N4072	09-N4072	01-S4072	09-S4072	01-N8072	09-N8072
250V	3P+G	01-N4073	09-N4073	01-S4073	09-S4073	01-N8073	09-N8073
277V	1P+N+G	01-N4045	09-N4045	01-S4045	09-S4045	01-N8045	09-N8045
277 480V	3P+N+G	01-N4047	09-N4047	01-S4047	09-S4047	01-N8047	09-N8047
347 600V	3P+N+G	01-N4147	09-N4147	01-S4147	09-S4147	01-N8147	09-N8147
480V	2P+G	01-N4042	09-N4042	01-S4042	09-S4042	01-N8042	09-N8042
480V	3P+G	01-N4043	09-N4043	01-S4043	09-S4043	01-N8043	09-N8043
600V	2P+G	01-N4142	09-N4142	01-S4142	09-S4142	01-N8142	09-N8142
600V	3P+G	01-N4143	09-N4143	01-S4143	09-S4143	01-N8143	09-N8143

Main Options



Reverse Interiors



Flush Mount
(replaces female casing)



Locking Pawl

Receptacle Options

Suffix

Inlet Options

Suffix

Reverse Interiors

Recept # - 001

Reverse Interiors

Inlet # - 001

With Flush Mount (poly only)

Recept # - 142*

Locking Pawl

Recept # - 824-300

* IP55 rating with Flush Mount casing



See pages 233-242 for detailed information on these options

Order Example: 480V PN20 IP66/IP67 + reverse interiors
PN20 Receptacle 3P+G = 01-N4043-001

INSTALLATION ACCESSORIES – SIZE 1

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	511P0N05	591P0N05
	3/4"	511P0N07	591P0N07
	1"	511P0N10	591P0N10

For available cord grips, see page 165.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.350 - .520"	711P0BP6
	.520 - .680"	711P0CP5
	.680 - .980"	711P0DP4

METAL HANDLE w/CORD GRIP		
	.438 - .500"	791P0BS3
	.500 - .562"	791P0BS4
	.562 - .625"	791P0CS1
	.625 - .750"	791P0CS4
	.750 - .875"	791P0DS1
	.875 - 1.000"	791P0DS3

POLY 90° HANDLE w/NPT		
	1/2"	751P9N05
	3/4"	751P9N07
	1"	751P9N10

POLY HANDLE		
	.35 - .70"	511P0D18

POLY ANGLED HANDLE		
	.35 - .70"	511P6D18

ANGLES

POLY ANGLE		
	MB Box 30°	511M3
	70°	511M7

	70°	511M7
---	-----	-------

METAL ANGLE		
	0°	591M0
	45°	591M4

	FS/FD Box 30°	791M3FS
---	---------------	---------

*Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

	45°	591M4
---	-----	-------

BOXES

POLY CONDUIT ENTRY w/NPT				Part #
	30°	1/2"		511B3N05
	* 7.0 in ³ 30°	3/4"		511B3N07

POLY WALL BOX w/NPT				Part #
	0°	1/2"		511B0N05
	* 3.4 in ³ 0°	3/4"		511B0N07

METAL WALL BOX w/NPT				Part #
	0°	1/2"		591B0N05
	* 3.8 in ³ 0°	3/4"		591B0N07

POLY WALL BOX w/ANGLE				Part #
	70°			511C7000
	* 82.0 in ³			
		Ground Bar		51AA089

70° poly boxes are not drilled. Contact customer service if factory drilling is required.

METAL BOX w/NPT				Part #
	0°	1/2"		7T1F0N05
	0°	3/4"		7T1F0N07
	0°	1"		7T1F0N10
	0°	1 1/4"		7T1F0N12

POLY ANGLE WITH METAL BOX w/NPT				Part #
	30°	1/2"		711C3N05
	30°	3/4"		711C3N07
	30°	1"		711C3N10
	* 30.0 in ³ 30°	1 1/4"		711C3N12

METAL ANGLE WITH METAL BOX w/NPT				Part #
	45°	1/2"		791C4N05
	45°	3/4"		791C4N07
	45°	1"		791C4N10
	* 27.0 in ³ 45°	1 1/4"		791C4N12

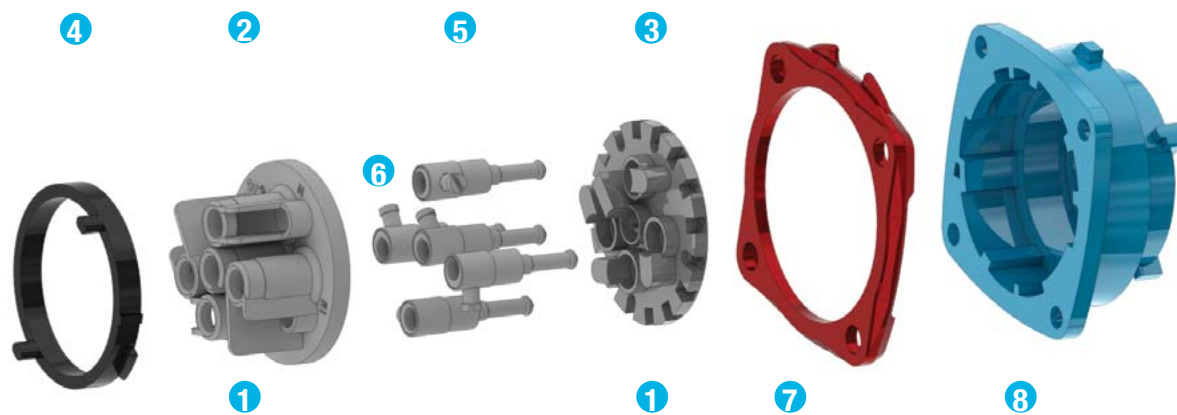
NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	01-NA426	For Inlets/Plugs Only.

FLUSH MOUNT	
	01-2A142

PN SPARE PARTS Male Configuration

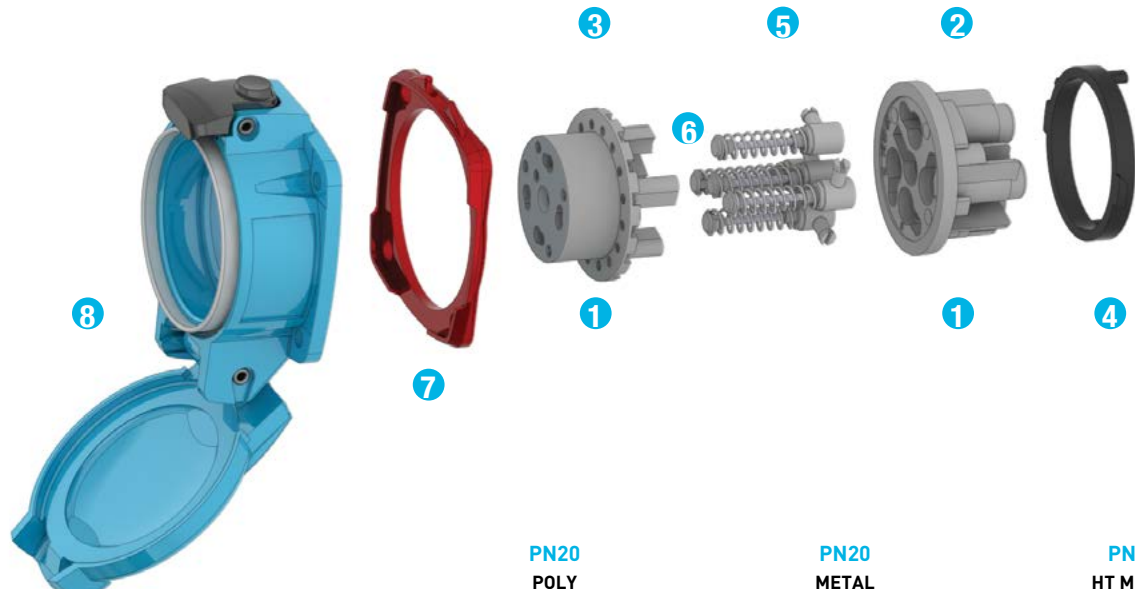


		PN20 POLY	PN20 METAL	PNHT HT METAL
1	Plug Interior**	01-2A010*	01-2A010*	01-2A010-185*
2	Interior Bottom**	01-2A010-B	01-2A010-B	01-2A010-185-B
3	Interior Top**	01-2A010-T*	01-2A010-T*	01-2A010-185-T*
4	Locking Ring	01-NA583	09-2A583	09-2A583-185
5	Plug Contact	01-2A011	01-2A011	01-2A011-185
6	Ground Contact	01-2A019	01-2A019	01-2A019-185
7	Color-Coded Voltage Gasket	125V	61-1AC26	-
		208V	61-1AB26	-
		250V	61-1AC26	-
		480V	61-1AR26	-
8	Plug Casing	01-NA014**	09-NA014**	09-2A014-185**

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

PN SPARE PARTS Female Configuration



		PN20 POLY	PN20 METAL	PNHT HT METAL
1	Receptacle Interior	01-2A020*	01-2A020*	01-2A020-185*
2	Interior Bottom	01-2A020-B	01-2A020-B	01-2A020-185-B
3	Interior Top	01-2A020-T*	01-2A020-T*	01-2A020-185-T*
4	Locking Ring	01-NA583	09-2A583	09-2A583-185
5	Receptacle Contact	01-2A021	01-2A021	01-2A021-185
6	Ground Contact	01-2A029	01-2A029	01-2A029-185
7	Color-Coded Voltage Gasket	125V	61-1AC26	-
		208V	61-1AB26	-
		250V	61-1AC26	-
		480V	61-1AR26	-
8	Receptacle Casing w/Lid IP54/IP55	01-SA024**	09-SA024**	09-2A024-185**
8	Receptacle Casing w/Lid IP66/IP67	01-NA024**	09-NA024**	-

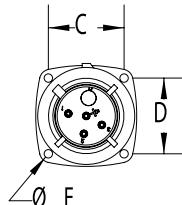
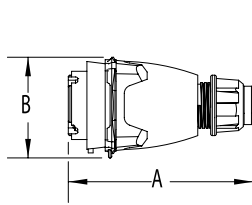
* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

** For appropriate labeling on a device, please specify voltage, phasing, and product type.

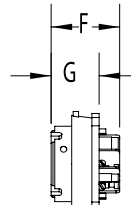
PN DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

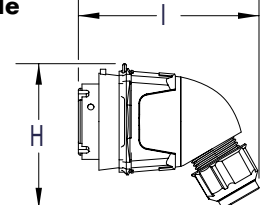
Plug



Inlet

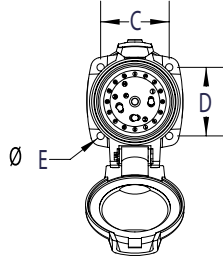
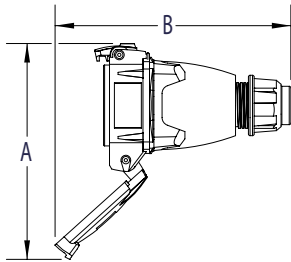


Plug Angled Handle

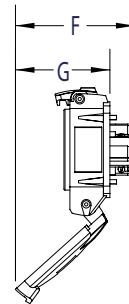


PRODUCT	A	B	C	D	ØE	F	G	H	I
PN	4.33	2.40	16.50	1.65	0.18	1.50	1.14	3.90	3.17

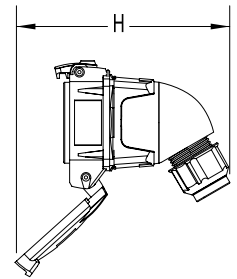
Connector



Receptacle

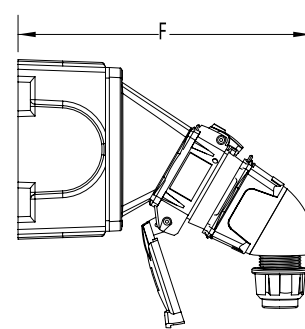
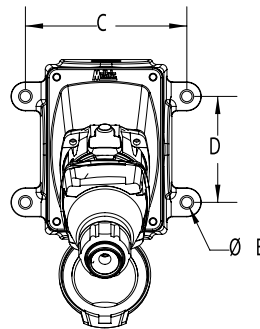
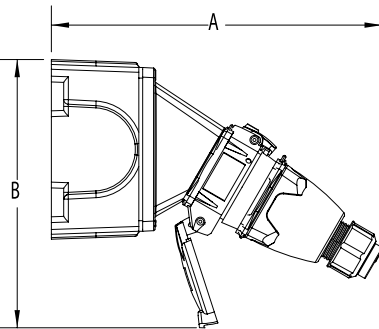


Connector Angled Handle



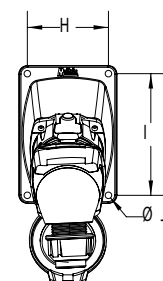
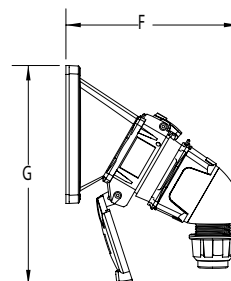
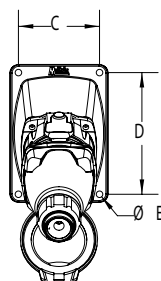
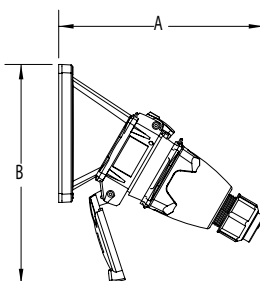
PRODUCT	A	B	C	D	E	F	G	H
PN	5.51	5.69	1.65	1.65	0.18	1.93	1.38	4.17

Box/30° Angle/Receptacle/Plug



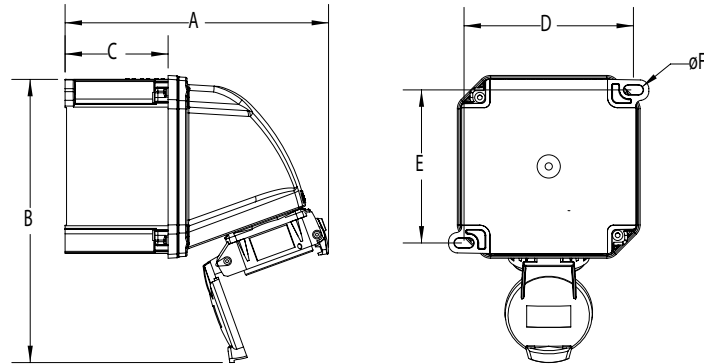
PRODUCT	A	B	C	D	E	F
PN	8.59	6.96	4.19	2.75	0.27	7.60

30° Angle/Receptacle/Plug



PRODUCT	A	B	C	D	ØE	F	G	H	I	ØJ
PN	6.32	6.76	2.50	3.75	0.20	5.33	6.76	2.50	3.75	0.20

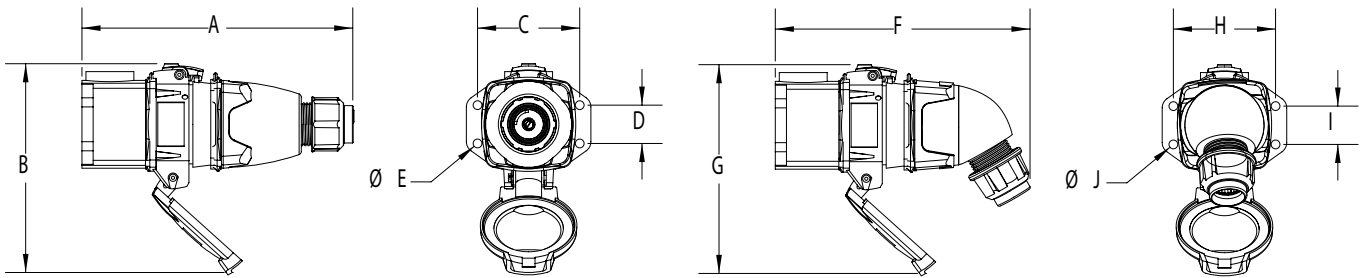
70° Wall Box/ Receptacle



PRODUCT	A	B	C	D	E	ØF
PN	7.15	7.68	2.80	4.60	4.15	0.26

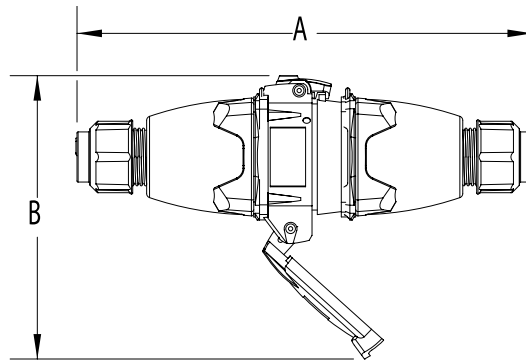
Straight Wall Box/Receptacle/Plug

Straight Wall Box/Receptacle/ Plug/Angled Handle



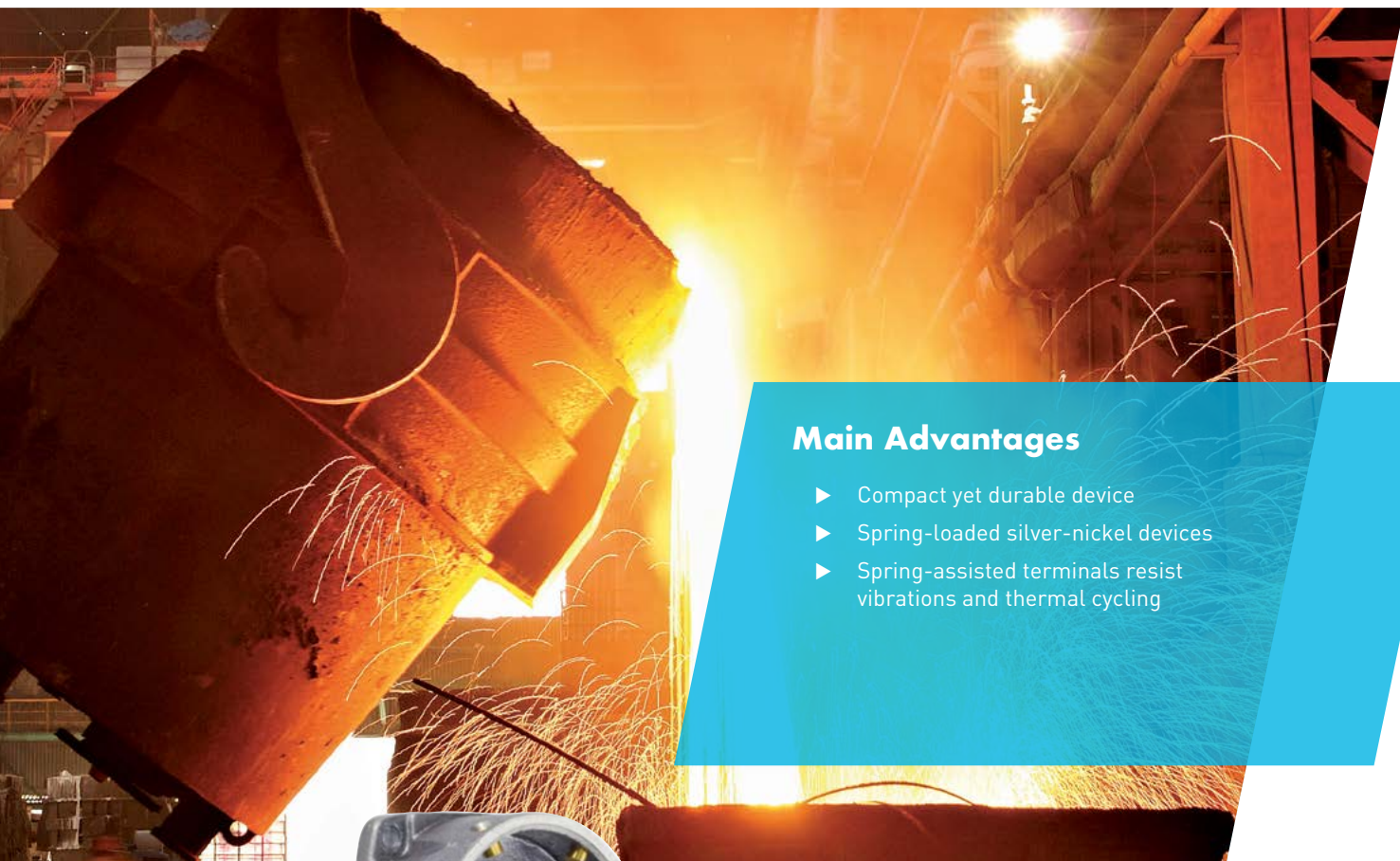
PRODUCT	A	B	C	D	ØE	F	G	H	I	ØJ
PN	6.68	5.15	2.52	0.95	0.22	6.28	5.15	2.52	0.95	0.22

Connector/Plug



PRODUCT	A	B
PN	8.37	5.21

PNHT High Temperature Plug and Receptacle



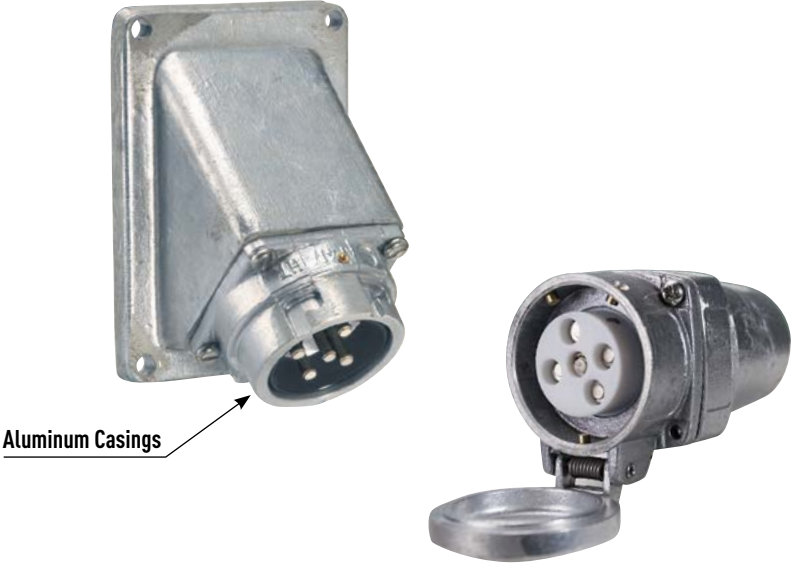
Main Advantages

- ▶ Compact yet durable device
- ▶ Spring-loaded silver-nickel devices
- ▶ Spring-assisted terminals resist vibrations and thermal cycling



- ▶ Features and Ratings p. 110
- ▶ PNHT p. 111

PRODUCT FEATURES



General Ratings

Amperage	30 A
Voltage	480 VAC Max
Environmental	IP44
Temperature	max 465°F (240°C)

This high-temperature version of the PN is approved for use in temperatures up to 465°F / 240°C.

Therefore, you can supply power to electrical equipment located next to heat sources: machines, industrial facilities, steel works, metallurgy, etc.

Operating Instructions

Disconnection



Ensure that the circuit is de-energized before removing the plug from the receptacle.



To remove the plug, apply slight inward force and rotate the plug counterclockwise.

Connection



To reconnect open lid, align grooves in inlet with notches in the receptacle casing.



Insert and twist clockwise until plug is engaged.

PNHT High Temperature Plugs & Receptacles – 30 A

UL/CSA Ratings

- **Max Amperage & Voltage**
30 A, 480 VAC, 130 VDC
- **Not for Current Interruption**
Not for current interrupting
- **Environmental Ratings**
IP44
- **Temperature Range**
Min -40°F/Max 465°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
- **Certifications**
IEC, CE*

* Contact Customer Service

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Metal	Part # Metal
125V	1P+N+G	09-24075-185	09-28075-185
250V	2P+G	09-24072-185	09-28072-185
125 250V	2P+N+G	09-24076-185	09-28076-185
250V	3P+G	09-24073-185	09-28073-185
125 250V	3P+N+G	09-24077-185	09-28077-185
277V	1P+N+G	09-24045-185	09-28045-185
480V	2P+G	09-24042-185	09-28042-185
480V	3P+G	09-24043-185	09-28043-185
277 480V	3P+N+G	09-24047-185	09-28047-185

! See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 1

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/CORD GRIP	Cable Range	Part #
	.31 - .51"	571P020M185
	.47 - .79"	571P025M185
	.63 - .94"	571P032M185

For available cord grips, see pg 165.

METAL HANDLE w/Threaded Opening	w/NPT	Part #
	1/2"	571P0N05185
	3/4"	571P0N07185
	1"	571P0N10185

BOXES

METAL WALL BOX w/NPT	Part #
 0° 1/2"	571B0N05185
0° 3/4"	571B0N07185

METAL BOX w/NPT	Part #
 0° 1/2"	771F0N05
0° 3/4"	771F0N07
0° 1"	771F0N10
0° 1 1/4"	771F0N12

METAL ANGLE WITH METAL BOX w/NPT	Part #
 45° 1/2"	771C4N05185
45° 3/4"	771C4N07185
45° 1"	771C4N10185
45° 1 1/4"	771C4N12185

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

METAL ANGLE	Part #
 0°	571M0
 45°	571M4185



45° Angled Inlet



Wall Box with Inlet



Connector



Wall Box with Receptacle

DSDC

DC rated Plug and Receptacle

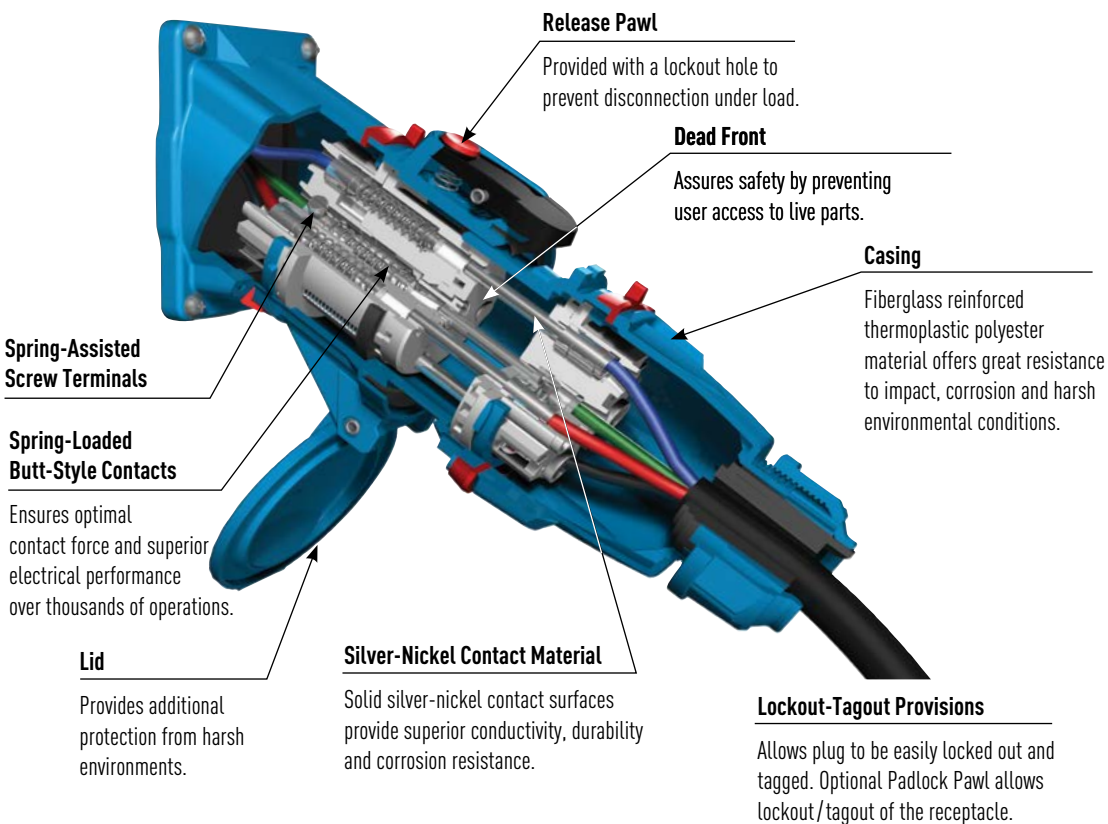
Main Advantages

- ▶ Rated for Direct Currents
- ▶ Standard locking feature enables locking in the connected and disconnected mode
- ▶ Robust Metal or Poly construction



- ▶ Features and Ratings p. 114
- ▶ DSDC p. 115

PRODUCT FEATURES



General Ratings

Amperage	130 VDC: 20 to 200 A
	250 VDC: 20 to 200 A
	600 VDC: 15 to 100 A
	750 VDC: 10 to 30 A
Voltage	130 VDC, 250 VDC, 600 VDC or 750 VDC
Environmental	Type 3R, IP54/IP55**, Type 4X optional
Temperature	min -40°F/max 140°F

** IP54 rated when receptacle and plug are mated, when not mated receptacle alone is IP55 rated provided that the lid is latched closed.

Highlighted Feature

Receptacle Lockout Hole



All DSDC models are provided with a lockout hole in the pawl. This feature allows locking of the receptacle to prevent accidental disconnection of the plug under load.

Listings

Category	UL	CSA
Plugs and Receptacles	UL 1682	C22.2 No. 182.1

CE ratings available upon request.

Operating Instructions



When a DSDC is under load the receptacle should be locked to prevent disconnection.



If the DSDC is NOT under load, it can be disconnected by pressing the pawl.



A quarter turn of the plug allows it to be totally withdrawn from the receptacle. This is done in complete safety as the circuit is already dead.



The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

Standard Duty Plugs & Receptacles 130V, 250V, 600V, 750V

UL/CSA Ratings

- **Max Amperage & Voltage**
200 A, 750 VDC
- **Current Interruption Capability**
Not for current interrupting
- **Environmental Ratings**
Type 3R, IP54/IP55*
* IP54 when the plug & receptacle are mated. IP55 on the receptacle alone when the lid is latched closed.
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
DSDC1 Min 14 AWG Max 8 AWG
DSDC3 Min 12 AWG Max 4 AWG
DSDC6 Min 10 AWG Max 2 AWG
DSDC9 Min 4 AWG Max 2/0 AWG
DSDC2 Min 4 AWG Max 4/0 AWG
- **Certifications**
UL 1682 (130, 250 & 600 VDC)
CSA 182.1 listed up to 250 VDC
750 VDC devices pass UL testing, but are outside the scope of the standard so they cannot be listed.

Receptacle (female)



Inlet (male)



Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity		Part #		Part #	
			Poly	Metal	Poly	Metal
DSDC1	130V/20 A	2P+G	33-14109	-	33-18109	-
DSDC3	130V/30 A	2P+G	33-34109	-	33-38109	-
DSDC6	130V/60 A	2P+G	33-64109	37-64109	33-68109	37-68109
DSDC9	130V/100 A	2P+G	33-94109	37-94109	33-98109	37-98109
DSDC2	130V/200 A	2P+G	-	37-24109	-	37-28109
DSDC1	250V/20 A	2P+G	33-14209	-	33-18209	-
DSDC3	250V/30 A	2P+G	33-34209	-	33-38209	-
DSDC6	250V/60 A	2P+G	33-64209	37-64209	33-68209	37-68209
DSDC9	250V/100 A	2P+G	33-94209	37-94209	33-98209	37-98209
DSDC2	250V/200 A	2P+G	-	37-24209	-	37-28209
DSDC1	600V/15 A	2P+G*	33-14058-S82	-	33-18058-S82	-
DSDC3	600V/30 A	2P+G*	33-34058-S82	-	33-38058-S82	-
DSDC6	600V/50 A	2P+G*	33-64058-S82	37-64058-S82	33-68058-S82	37-68058-S82
DSDC9	600V/60 A	2P+G*	33-94058-S82	-	33-98058-S82	-
DSDC2	600V/100 A	2P+G*	-	37-24058-S82	-	37-28058-S82
DSDC1	750V/10 A	2P+G*	33-14158-S69	-	33-18158-S69	-
DSDC3	750V/20 A	2P+G*	33-34158-S69	-	33-38158-S69	-
DSDC6	750V/30 A	2P+G*	33-64158-S69	37-64158-S69	33-68158-S69	37-68158-S69

Notes: * Type 4x as standard
* Polarity for connection purposes. Devices have additional contacts used for load splitting. See information below.

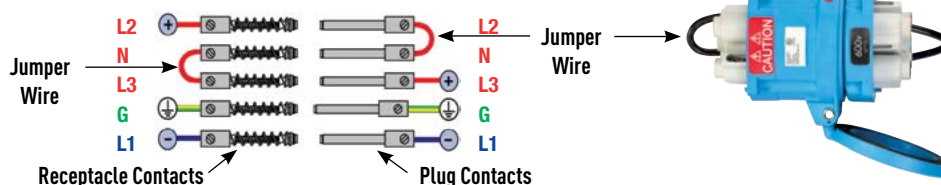
Receptacle Options	Part #
Type 4X Watertightness	Recept # - 4X
Metal Pawl (on poly receptacle)	Recept # - 824
Closed Lid Configuration	Recept # - NC

DSDC2 models are also provided with a screw locking pawl to provide an alternative means of preventing accidental disconnection under load.

Inlet Options	Part #
Type 4X Watertightness	Inlet # - 4X
With no Lockout Hole	Inlet # - A155

Jumpers provided on 600 VDC and 750 VDC models

Jumpers are required on all 600 VDC and 750 VDC models as a safety precaution to split the arc in case of accidental disconnection under load. Plugs and receptacles are provided with jumpers installed. Receptacles utilize a jumper between N and L3 poles. Plugs utilize a jumper between L2 and N poles.



See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES



Poly Handle



Poly Handle

DSDC1, 3, 6
shown



Poly Handle

DSDC9, 2
shown

	Cable Range	Poly Handle	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	.20 - .83"	512P0D21	512P0N05	512P0N07	512P0N10	512P0N12	-	-	-
DSDC3	.39 - 1.18"	513P0D30	513P0N05	513P0N07	513P0N10	513P0N12	-	-	-
DSDC6	.51 - 1.38"	514P0D35	514P0N05	514P0N07	514P0N10	514P0N12	514P0N15	-	-
DSDC9	-	-	-	515P0N07	515P0N10	515P0N12	515P0N15	515P0N20	-
DSDC2	-	-	-	-	-	-	516P0N15	516P0N20	516P0N25

For metal accessories, view equivalent DS series devices.

Notes:

- Finger draw plates are recommended for easier connector closure on cord to cord assemblies.
- For available cord grips, see pg 165.



Metal Box

DSDC1, 3, 6
shown



Metal Box

DSDC9, 2
shown

BOXES

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	7T1F0N05	7T1F0N07	7T1F0N10	7T1F0N12	-	-	-
DSDC3	7T1F0N05	7T1F0N07	7T1F0N10	7T1F0N12	-	-	-
DSDC6	-	-	7T4F0N10	7T4F0N12	7T4F0N15	7T4F0N20	-
DSDC9	-	-	-	7T5F0N12	7T5F0N15	7T5F0N20	7T5F0N25
DSDC2	-	-	-	-	7T6F0N15	7T6F0N20	7T6F0N25

NPT on top or bottom (if rotated).

For other NPT configurations, contact customer service.



Poly Conduit Box For poly devices only

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT
DSDC1	512B3N05	512B3N07	-	-
DSDC3	513B3N05	513B3N07	513B3N10	-
DSDC6	514B3N05	514B3N07	514B3N10	514B3N12

For DSDC dimensions use the cross reference chart below and refer to DS dimensions on pgs 55-56.

Dimensions

DSDC1	same as DS20
DSDC3	same as DS30
DSDC6	same as DS60
DSDC9	same as DS100
DSDC2	same as DS200

ANGLES



	Poly 30° Angle	Metal 30° Angle	Metal Angle FS/FD Box 30°	Metal Straight Adapter	Poly 70° Wall Box
DSDC1	512M3	592M3	792M3FS*	592M0	512C7000
DSDC3	513M3	593M3	793M3FS*	593M0	513C7000
DSDC6	514M3	594M3	-	594M0	514C7000
DSDC9	515M3	595M3	-	595M0	-
DSDC2	-	596M6 (60°)	-	596M0	-

* MAFS2 and MAFS3 base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

** 70° boxes do not have pre-drilled entry locations. Contact customer service if factory drilling is required.

MISC. ACCESSORIES



* Set of Two (2)



For Inlets/Plugs Only



For Inlets/Plugs Only



For Inlets/Plugs Only

Finger Drawplates	Protective Inlet/Plug Cap	Poly Padlockable Inlet/Plug Cap	Spring-Loaded Padlockable Inlet/Plug Cap
61-3A346	31-1A426	DS1PC	31-1A226
61-6A346	31-3A426	DS3PC	31-3A226
31-6A346	31-6A426	DS6PC	31-6A226+
**	31-9A426	DS9MC***	-
**	39-2A426	DS2MC***	-

* Recommended for cord to cord assembly applications, for easier connector closure.

** An easy closing mechanism is standard on DSDC9 and DSDC2.

*** Padlockable Cap Aluminum - Not pictured.

+ For metal devices, replace "31" prefix with "39". Order with -A155 suffix.

HIGH AMPACITY

Plugs & Receptacles



High Amperage plugs and receptacles from MELTRIC offer superior safety and performance in harsh environments. Each high amperage product line features MELTRIC's exclusive contact technology along with advanced safety features and relatively easy plug insertion and removal.



PF/PFQ P. 119

THREE PHASE, TWIST TO CONNECT

- 300 A to 600 A
- Silver pressure contacts
- Mechanical locking system



DR400 P. 127

THREE PHASE, EASY PLUG INSERTION

- 400 A, 480V or 350 A, 600V
- Silver nickel, Spring-loaded, butt-style contacts
- Easy closing mechanism



SP P. 131

SINGLE POLE, EXCLUSIVE SAFETY FEATURES

- 600 A (CSA), 700 A, (IEC)
- Silver, butt-style contacts
- Integral pilot circuit



CS1000 P. 135

SINGLE POLE, EASY TO OPERATE

- 400 A, 600V
- Silver nickel, Spring-loaded, butt-style contacts
- Locking pin prevents accidental disconnects

PF/PFQ

High Amperage Plug and Receptacle



Main Advantages

- ▶ Durable in harsh environments
- ▶ Safety features provide maximum protection
- ▶ Easy plug insertion and removal



Watch the PF video and other product videos at meltric.com/video

- ▶ Features and Ratings p. 120
- ▶ PF/PFQ 300-600 A p. 121
- ▶ PF/PFQ Lugs p. 123
- ▶ Spare Parts p. 125
- ▶ Dimensions p. 126



PFQ300 devices are differentiated from similarly rated **PF300** devices in their smaller size, lighter weight and additional pilot contacts.

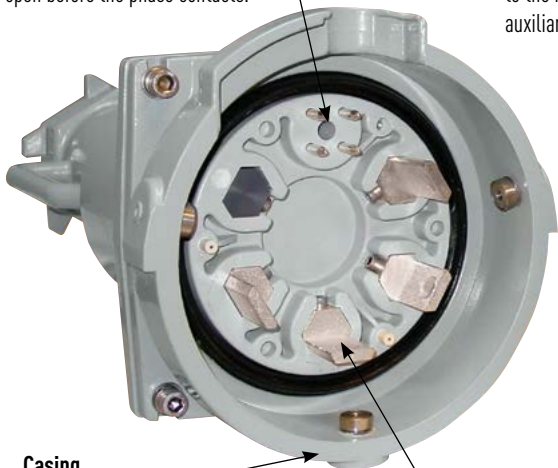
PRODUCT FEATURES

Auxiliary Pilot Contacts

Provided for use with control circuits. They close after and open before the phase contacts.

Mechanical Locking System

Ensures safety and watertightness. Mechanical lock secures the inlet to the receptacle and engages the auxiliary/pilot contacts.



Casing

Epoxy/powder coated aluminum material offers great resistance to harsh environments.

Silver Pressure Contacts

Silver material and self-cleaning action provides maximum conductivity and performance in dirty and corrosive conditions.

Safety Shutter

Protects recessed female contacts and inhibits user access to live parts.

General Ratings

Amperage	300 to 600 A
Voltage*	1000 VAC*, 1000 VDC Max
Frequency	50-60 Hz (not UL at 50 Hz)
Environmental	IP66/IP67
Temperature	min -40°F/max 140°F

* 600 VAC max for PFQ devices

* IUL listings do not apply above 600 VAC and 250 VDC.

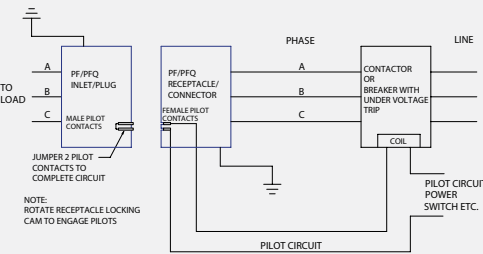
Listings

Category	UL	CSA
Plugs and Receptacles	UL 1682	C22.2 No. 182.1

* Listings only apply to 300 A and 400 A devices at 600V or less.

Highlighted Feature

Pilot Contacts



Line diagram of typical PF pilot control circuit

For multiple devices in a parallel circuit, contact factory for example control circuit diagrams.

Category	PF	PFQ
# Contacts	4	8
Pilot Amperage	10 A standard duty	5 A @ 240VAC
Interlocking Type	Mechanical	Mechanical
Terminal Type	Screw	Solder/crimp

- Notes:**
- The mechanical locking of the plug to the receptacle via the rotation of a cam, closes the pilot contacts.
 - Failure to use a pilot/relay system can create an electrical shock hazard.

Operating Instructions



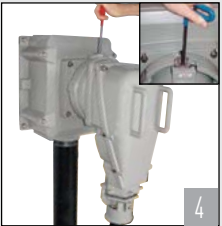
PF devices are preferred for the ease of operation relative to pin and sleeve devices.



Insert the plug into the receptacle – this is done with little resistance relative to competitive devices.



Twist plug approximately 30° clockwise to engage the phase contacts and make unit watertight.



Turning the mechanical lock secures the inlet to the receptacle and engages the pilot contacts which energize the circuit.

5 To disconnect, turn mechanical lock to disengage pilot contacts and de-energize the circuit. Twist plug 30° counterclockwise to disengage the phase contacts, withdraw plug.

HIGH AMPACITY

High Ampacity Plugs & Receptacles 300 A - 600 A

UL/CSA Ratings

- **Max Amperage & Voltage**
PF = 600 A, 1000 VAC*, 250 VDC
PFQ = 300 A, 600 VAC, 250 VDC
- **Current Interruption Capability**
Not for current interrupting
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
PFQ = 2 AWG to 600 MCM
PF = 2 AWG to 600 MCM
- **Certifications**
UL 1682*, CSA 182.1*

* Listings apply only to 300 A & 400 A devices at 600V or less

! PF/PFQ devices are not intended for connection or disconnection under load. To prevent live making or breaking electrical interlocking is required.

! Don't forget to add installation accessories to your order

Receptacle/Cap 300 A (female)



PFQ shown

Inlet/Cap 300 A (male)



PFQ shown

North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		PFQ 300**	PF300	PFQ 300**	PF300
277V	1P+N+G	47-34045	49-34045	47-38045	49-38045
347V	1P+N+G	47-34145	49-34145	47-38145	49-38145
480V	2P+G	47-34042	49-34042	47-38042	49-38042
480V	2P+N+G	47-34046	49-34046	47-38046	49-38046
480V	3P+G	47-34043	49-34043	47-38043	49-38043
480V	3P+N+G	47-34047	49-34047	47-38047	49-38047
600V	2P+G	47-34142	49-34142	47-38142	49-38142
600V	2P+N+G	47-34146	49-34146	47-38146	49-38146
600V	3P+G	47-34143	49-34143	47-38143	49-38143
600V	3P+N+G	47-34147	49-34147	47-38147	49-38147

** PFQ300 devices are differentiated from similarly rated PF300 devices in their smaller size, lighter weight and different pilot contacts.

Main Options Part

Receptacle with no cap	Recept # - 48
Receptacle with lockout hole	Recept # - 843
Inlet with no cap	Inlet # - 48
Inlet with lockout hole	Inlet # - 843

Notes: • Metal caps are provided as standard with inlets/plugs and receptacles.

• Heat shrink wrap is provided with each inlet and receptacle to provide insulation between terminals.

• **Lugs are not included.** The PF and PFQ contacts utilize bolt-on lug type wire terminals, which require a compression lug with a 9/16" or 5/8" hole. The angled handle requires straight lugs; the straight handle requires 90° lugs.

! See pages 233-242 for detailed information on these options

Receptacle/Cap 400 A/600 A (female) Inlet/Cap 400 A/600 A (male)



North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #	
		PF400	PF600	PF400	PF600
277V	1P+N+G	49-44045	49-64045	49-48045	49-68045
347V	1P+N+G	49-44145	49-64145	49-48145	49-68145
480V	2P+G	49-44042	49-64042	49-48042	49-68042
480V	2P+N+G	49-44046	49-64046	49-48046	49-68046
480V	3P+G	49-44043	49-64043	49-48043	49-68043
480V	3P+N+G	49-44047	49-64047	49-48047	49-68047
600V	2P+G	49-44142	49-64142	49-48142	49-68142
600V	2P+N+G	49-44146	49-64146	49-48146	49-68146
600V	3P+G	49-44143	49-64143	49-48143	49-68143
600V	3P+N+G	49-44147	49-64147	49-48147	49-68147

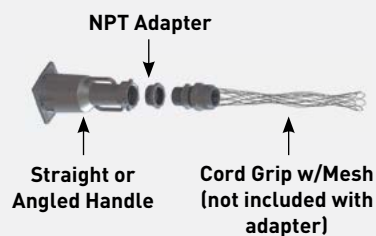
INSTALLATION ACCESSORIES – SIZE C & F

HANDLES

METAL STRAIGHT HANDLE			Part #
 PF shown Standard Clamp shown	PFQ300	0°	47-3A013-XXX
	PF300	0°	49-3A013-XXX
	PF400	0°	49-4A013-XXX
	PF600	0°	49-6A013-XXX
Metal Angled Handle			
 PF shown Standard Clamp shown	PFQ300	90°	47-3A913-XXX
	PF300	90°	49-3A913-XXX
	PF400	90°	49-4A913-XXX
	PF600	90°	49-6A913-XXX
NPT Adapter	NPT Size	XXX (Suffix #)	
	2.0"	-N20	For available cord grips, see pg 165.
	2.5"	-N25	
	3.0"	-N30	
Standard Clamp w/Cable Range			
	2.000 - 2.125"	-200	
	2.125 - 2.250"	-225	
	2.250 - 2.375"	-237	
	2.375 - 2.500"	-250	
	2.500 - 2.750"	-275	
	2.750 - 3.000"	-300	
	3.000 - 3.125"	-312	
	3.125 - 3.350"	-335	
	3.350 - 3.577"	-350	

Accessory Spotlight

NPT Adapter



A NPT adapter accessory allows the user to connect a third party cord grip to the PF/PFQ handle.

BOXES

METAL JUNCTION BOX			Part #
	PFQ300	See table	MB40PFQ-XX
	PF300	See table	MB40-XX
	PF400	See table	MB40-XX
	PF600	See table	MB40-XX

This box is a heavy duty powder coated Aluminum back box with removable cover. Conduit entry hub up to 4" NPT can be ordered on one or both ends or even on the back of the enclosure. Multiple hubs and sizes can be ordered for installs with parallel entry's on one end of the box.

Hub Sizes	Fitting Size	XX (Suffix #)
	2.0"	-20
	2.5"	-25
	3.0"	-30
	3.5"	-35
	4.0"	-40

STAINLESS STEEL JUNCTION BOX		PFQ	PF
 24"x16"x8"	2.0"	47-4A023-N020	49-6A023-N020
	2.5"	47-4A023-N025	49-6A023-N025
	3.0"	47-4A023-N030	49-6A023-N030
	4.0"	47-4A023-N040	49-6A023-N040
STAINLESS STEEL JUNCTION BOX		PFQ	PF
 36"x16"x12"	2.0"	47-4A023-N520	49-6A023-N520
	2.5"	47-4A023-N525	49-6A023-N525
	3.0"	47-4A023-N530	49-6A023-N530
	4.0"	47-4A023-N540	49-6A023-N540

These enclosures offer additional interior volume for extra wiring space. Both size enclosures have two removable covers and a one piece back pan installed for customer convenience. Conduit entry up to 4" NPT is limited to the bottom of the enclosure.

MISCELLANEOUS ACCESSORIES

INLET METAL CAP		
 PF shown	PFQ300	47-3A126
	PF300	49-3A126
	PF400	49-4A126
	PF600	49-6A126
RECEPTACLE METAL CAP		
	PFQ300	47-3A925
	PF300	49-3A925
	PF400	49-4A925
	PF600	49-6A925

WEIGHTS

PART	PF	PFQ
Inlet	15 lbs	9 lbs
Receptacle	25 lbs	12 lbs
Angled Handle	15 lbs	12 lbs
Straight Handle	10 lbs	10 lbs
Junction Box	45 lbs	45 lbs
Cap	3 lbs	3 lbs
Stainless Steel Box	85 lbs	55 lbs

PF/PFQ High Ampacity Plugs & Receptacles

300 A - 600 A

Straight Barrel Lugs

! MELTRIC recommends using lugs with tangs that do not exceed 1 3/4".



! Lugs are not included with PF/PFQ devices - order separately

Part #	Wire Size
PFLUG4	4 AWG
PFLUG3	3 AWG
PFLUG2	2 AWG
PFLUG1	1 AWG
PFLUG10	1/0 AWG
PFLUG20	2/0 AWG
PFLUG30	3/0 AWG
PFLUG40	4/0 AWG
PFLUG250	250kcmil
PFLUG300	300kcmil
PFLUG350	350kcmil
PFLUG400	400kcmil
PFLUG500	500kcmil
PFLUG600	600kcmil
PFLUG650	650kcmil

Application Note

Installation Accessory: Angled Handle



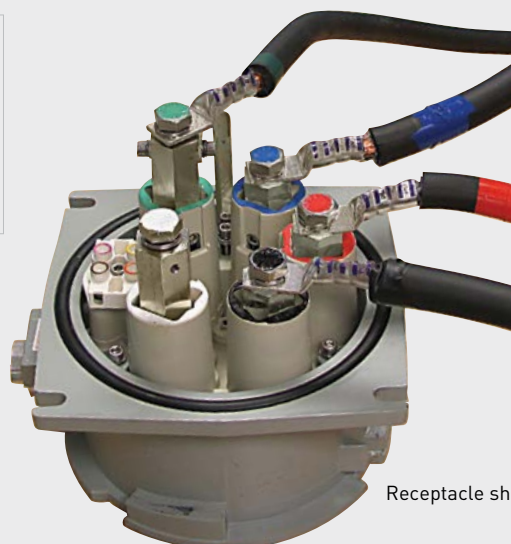
Straight Barrel Lugs are utilized on PF/PFQ devices along with angled handles.



Typical wiring of a PF male inlet for angled handle applications.



Apply heat shrink over lugs at terminals (supplied but not shown).



Receptacle shown

90° Bent/Angle Lugs



! Lugs are not included with PF/PFQ devices - order separately

! MELTRIC recommends using lugs with tangs that do not exceed 1 3/4".

Part #	Wire Size
PFLUG4-90	4 AWG
PFLUG3-90	3 AWG
PFLUG2-90	2 AWG
PFLUG1-90	1AWG
PFLUG10-90	1/0 AWG
PFLUG20-90	2/0 AWG
PFLUG30-90	3/0 AWG
PFLUG40-90	4/0 AWG
PFLUG250-90	250kcmil
PFLUG300-90	300kcmil
PFLUG350-90	350kcmil
PFLUG400-90	400kcmil
PFLUG500-90	500kcmil
PFLUG600-90	600kcmil

Application Note

Installation Accessory: Straight Handle



90° Bent Lugs are utilized on PF/PFQ devices along with straight handles.

HIGH AMPACITY



Typical wiring of a PF male inlet for straight handle applications.



Apply heat shrink over lugs at terminals (supplied but not shown).



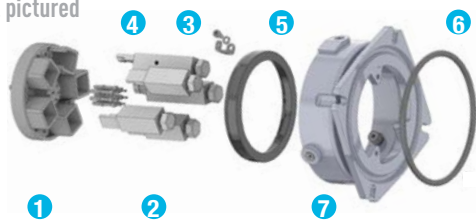
Inlet shown



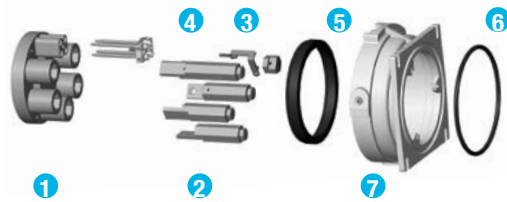
PF/PFQ SPARE PARTS

Male Configuration

PFQ pictured



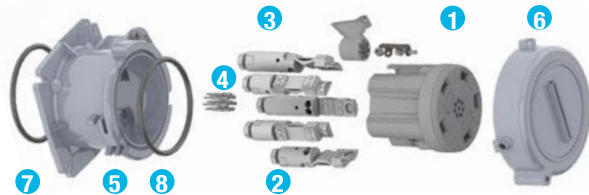
PF pictured



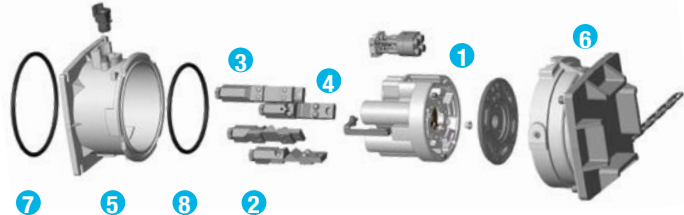
	PFQ300 METAL	PF300 METAL	PF400 METAL	PF600 METAL
1 Plug Interior*	47-3A010*	49-3A010	49-4A010	49-6A010
Plug Interior with contacts** (Pilot & Ground only)	47-3A110	49-3A110	49-4A110	49-6A110
2 Phase Contact	47-4A011	49-3A011	49-4A011	49-6A011
3 Neutral Contact	47-3A011N	49-3A011N	49-4A011N	49-6A011N
4 Ground Contact	47-3A019	49-3A019	49-4A019	49-6A019
5 Inside Gasket	CPF403PFQ	CPF403	CPF403	CPF403
6 Outside Gasket	CPF405PFQ	CPF405	CPF405	CPF405
7 Plug Metal Casing*	47-3A014	49-3A014	49-4A014	49-6A014

Female Configuration

PFQ pictured



PF pictured



	PFQ300 METAL	PF300 METAL	PF400 METAL	PF600 METAL
1 Receptacle Interior*	47-3A020*	49-3A020	49-4A020	49-6A020
Receptacles Interior with contacts** (Pilot & Ground only)	47-3A220	49-3A220	49-4A220	49-6A220
2 Phase Contact	47-4A021	49-3A021	49-4A021	49-6A021
3 Neutral Contact	47-3A021N	49-3A021N	49-4A021N	49-6A021N
4 Ground Contact	47-3A029	49-3A029	49-4A029	49-6A029
5 Receptacle Metal Casing*	47-3A024	49-3A024	49-4A024	49-6A024
6 Cap (Receptacle)	47-3A925	49-3A925	49-3A925	49-3A925
7 Inside Gasket	CPF403PFQ	CPF403	CPF403	CPF403
8 Outside Gasket	CPF405PFQ	CPF405	CPF405	CPF405

* Voltage and phasing positions must be specified (5th, 6th & 7th digit of Part #) to duplicate your shutter and alignment notches.

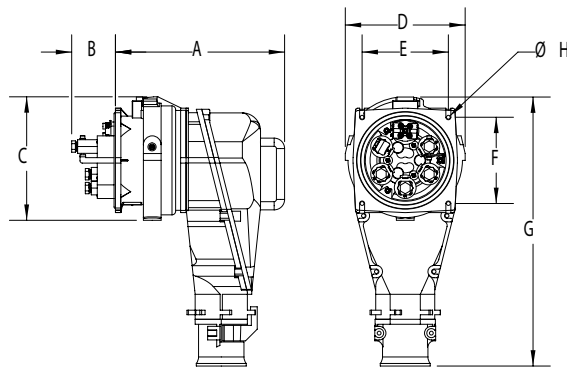
** Includes ground and pilot contacts only.

+ Includes pilot contacts only.

PF/PFQ DIMENSIONS – Provided in inches

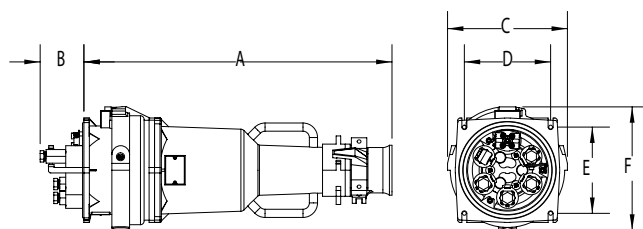
Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

angled plug



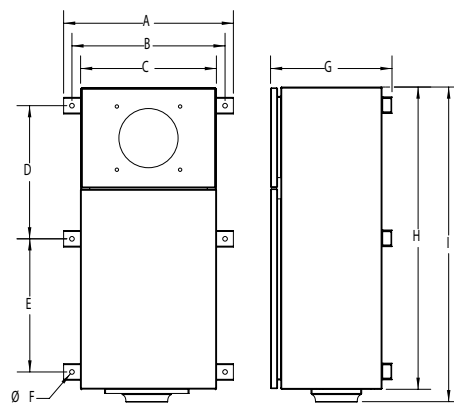
PRODUCT	A	B	C	D	E	F	G	H
PFQ	13.94	2.72	9.61	7.95	5.71	5.71	18.54	0.43
PF	14.67	3.79	10.71	10.39	7.48	7.48	23.33	0.43

straight plug



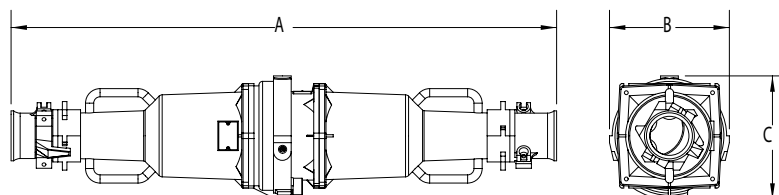
PRODUCT	A	B	C	D	E	F
PFQ	25.40	2.72	7.95	5.71	5.71	9.61
PF	26.72	3.79	10.39	7.48	7.48	10.69

SS Wall Boxes



PRODUCT	A	B	C	D	E	F	G	H	I
PFQ	20.08	18.11	16.06	18.03	N/A	0.55	10.55	23.94	25.42
PF	20.08	18.11	16.06	15.75	15.75	0.55	14.36	35.75	37.21

Connector/Plug



PRODUCT	A	B	C
PFQ	46.50	9.61	7.95
PF	47.31	10.39	10.69

DR400

High Amperage
Plug and Receptacle



Main Advantages

- ▶ Exclusive contact technology maximizes performance and durability
- ▶ Safety features protect workers
- ▶ Easy plug insertion and removal



Watch the DR400 video
and other product videos
at meltric.com/video

- ▶ Features and Ratings p. 128
- ▶ DR400 p. 129
- ▶ Dimensions p. 130

PRODUCT FEATURES



General Ratings

Amperage	400 A at 480 VAC 350 A at 600 VAC
Environmental	IP54 (IP66/IP67 optional)
Temperature	min -40°F/max 140°F

Listings

Category	UL	CSA
Plugs and Receptacles	UL 1682	C22.2 No. 182.1

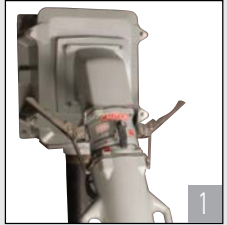
Highlighted Feature

Silver-Nickel, Spring-Loaded Butt-Style Contacts



Solid Silver-Nickel, Spring-Loaded Butt Style Contacts maintain optimal contact pressure and superior conductivity even in dirty, corrosive environments.

Operating Instructions



Partially insert the plug.



Place the closing mechanism around tabs on inlet.



Push the handles up, the plug is fully drawn into the receptacle.



Use the locking tool and turn clockwise to tighten screw.

HIGH AMPACITY

DR400 Standard Duty Plugs & Receptacles – 400 A

UL/CSA Ratings

- **Max Amperage & Voltage**
400 A Max at 480 VAC
350 A Max at 600 VAC
- **Current Interruption Capability**
Not for current interrupting
- **Short Circuit Rating**
18kA
A withstand test was performed with RK1 current limiting fuses sized at at least 100% of the devices ampacity rating.
- **Environmental Ratings**
IP54/IP55*
*IP54 when the plug & receptacle are mated. IP55 on the receptacle alone when the lid is latched closed.
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 2 AWG Max 500 MCM*
Aux Contacts – 14 AWG (prewired)
* Wire size to 500 MCM can be accommodated through use of Cable Reducing Adapters. See Accessory Spotlight.
- **Certifications**
UL 1682
CSA 182.1

Receptacle (female)

Easy Closing Mechanism



Standard DR400 lid opens to 90°

Inlet (male)



Tabs for latching to closing mechanism

Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part # Metal	Part # Metal
208V	3P+G+2PIL	39-44163-172	39-48163-172
250V	3P+G+2PIL	39-44073-172	39-48073-172
480V	3P+G+2PIL	39-44043-172	39-48043-172
600V	3P+G+2PIL	39-44143-172*	39-48143-172*

* 350 A only for 600V models

Other voltage configurations are available - contact customer service at 800-433-7642

Key Feature

Standard Locking Pawl



DR400 receptacles are provided with a screw-type locking pawl that prevents accidental disconnections under load.

Receptacle Options	Suffix #	Inlet Options	Suffix #
IP66/IP67	Recept # - 4X	IP66/IP67	Inlet # - 4X
Closed Lid Configuration	Recept # - NC	With No Lockout Hole	Inlet # - A155

Order Example: DR400 with Cable Reducing Adapters

To accommodate 500 MCM cable, cable reducing adapters and an extended angle with spacer accessory is required.

Typical order: 480V 3P+G+2PIL



Receptacle: 39-44043-172 +



Angle: 5T7M6-68 +



Cable Reducers: PT500R350-3 (Qty3)



Inlet: 39-48043-172 +



Handle: 5T7PON25 +



Cable Reducers: PT500R350-3 (Qty3)

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 7

HANDLES

LARGE HANDLE w/NPT	Part #
 2"	5T7P0N20
2 1/2"	5T7P0N25
3"	5T7P0N30

LARGE HANDLE w/CORD GRIP w/MESH w/Cable Range	
 2.062 - 2.188"	5T7P0JT1
2.188 - 2.312"	5T7P0JT2
2.312 - 2.438"	5T7P0JT3*
2.437 - 2.625"	5T7P0KT1
2.625 - 2.812"	5T7P0KT2

*May require stripping of cable jacket.

STRAIGHT HANDLE w/BUSHING w/Cable Range	
 2.09 - 2.25"	5T7P0D57
2.25 - 2.44"	5T7P0D62
2.44 - 2.67"	5T7P0D68
2.67 - 2.87"	5T7P0D73

ANGLES

METAL ANGLE	
 0°	5T7M0

 Extended 60°	5T7M6
---	-------

 Extended 60° with 68 mm spacer.	5T7M6-68	Provides space for Cable Reducing Adapters.
---	----------	---

BOXES

METAL ANGLE WITH METAL BOX w/NPT	Part #
 0° 2"	7T7F0N20
0° 2 1/2"	7T7F0N25
0° 3"	7T7F0N30
0° 3 1/2"	7T7F0N35
0° 4"	7T7F0N40

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP	
 39-2A426	For Inlet/Plugs Only.

CABLE REDUCING ADAPTERS	
 PT535FX350-3	Reducer for 500 MCM Fine Stranded or Flexible Wire.
 PT500R350-3	Reducer for 500 MCM Coarse Stranded or Building Wire.
 PT400R350-3	Reducer for 400 MCM Wire.

SPACER	
 5T7M0-68	68mm (2.68") spacer is used (included) with metal 60° angle.
 5T7M0-115	115mm can be used when mounting to a panel - though the metal straight adapter is preferred.

PADLOCKABLE INLET/PLUG CAP	
 DS2MC	Aluminum - For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

RECEPTACLE LOCKING PIN	
 LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

	Inlet					Receptacle									
	A	B	C	D	E	F	G	H	I	J	K	L	øM		
PRODUCT															
DR400	6.61	3.48	3.86	3.86	0.26	8.31	5.03	9.15	15.98	3.86	3.86	7.85	0.26		
	Plug				Angle/Receptacle										
	A	B	C	D	E	F	G	H	I	J	K	L	øM		
PRODUCT															
DR400	23.56	9.43	19.10	10.02	17.64	8.80	6.50	6.50	0.28						

SP High Amperage Plug and Receptacle



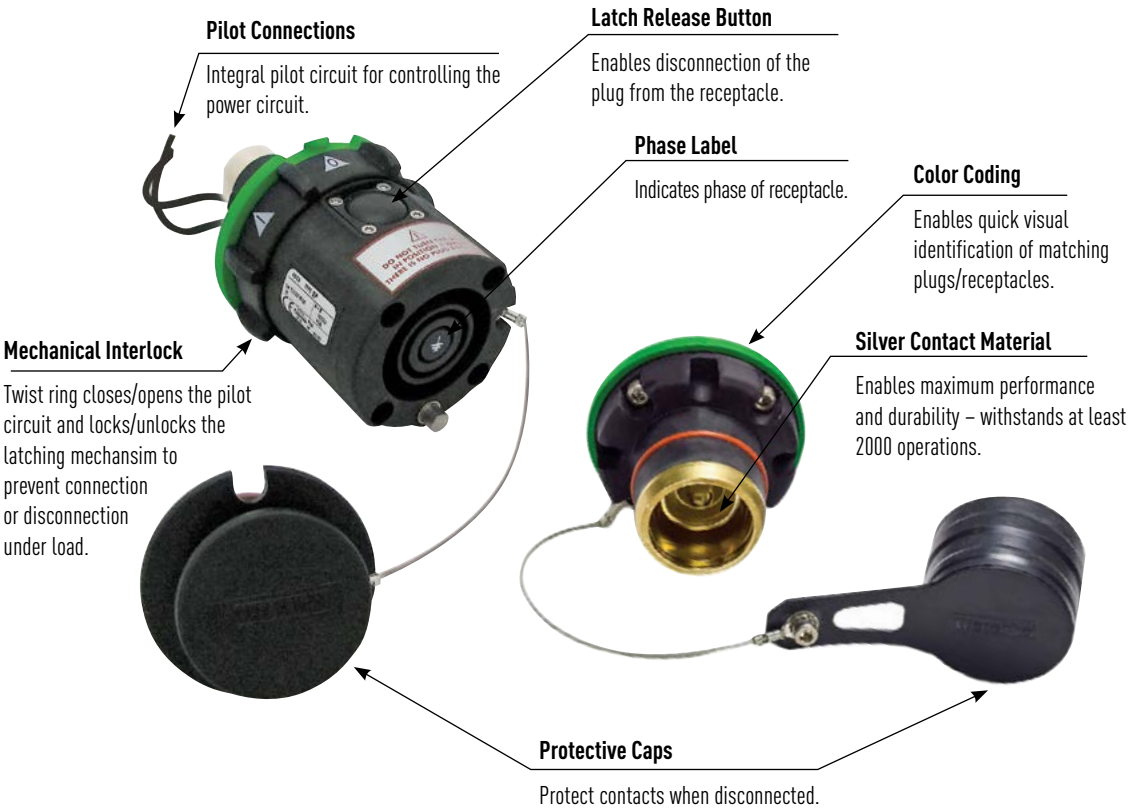
Main Advantages

- ▶ Safety features provide maximum protection
- ▶ Silver, butt-style contact technology maximizes durability
- ▶ IP66/IP67 environmental protection when mated
- ▶ Mechanical coding prevents intermating of phases



- ▶ Features and Ratings p. 132
- ▶ SP p. 133
- ▶ Dimensions p. 134

PRODUCT FEATURES



General Ratings

Listing	CSA	IEC
Amperage	600 A	700 A
Voltage	600 VAC	1000 VAC / 1500 VDC Max
Frequency	50-400 Hz	50-400 Hz
Horsepower	500 hp	–
Environmental	IP66/IP67	IP66/IP67
Temperature	min -15°F/max 140°F	min -15°F/max 140°F

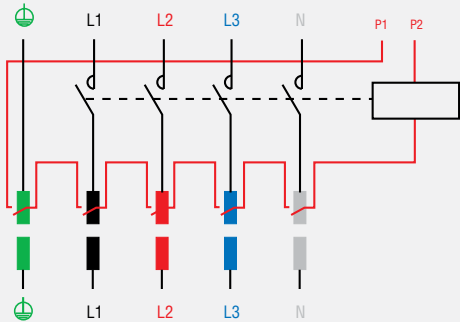
Highlighted Feature

Pilot Circuit



SP plugs and connectors are designed with safety and durability in mind. Each device is mechanically interlocked with an integral pilot circuit switch for controlling the power circuit in order to prevent connection and disconnection under load.

A typical pilot circuit wiring diagram



Operating Instructions



To connect, insert the plug into the receptacle until a click is heard. Rotation of the plug in either direction engages a locking finger, which prevents further rotation.



To close the pilot circuit and mechanically lock the plug into the receptacle, turn the ring on the receptacle until the "1" lines up with the arrow. This turns the power on.



To disconnect, open the pilot circuit and unlock the plug by turning the ring until the "0" is aligned with the arrow. The power is now off.



Press firmly on the latch release button and simultaneously pull on the inlet. A slight rotation of the plug may also be required.

SP Single Pole Plugs & Receptacles – 600 A

CSA Ratings

- **Max Amperage & Voltage**
600 A, 600 VAC
To order devices for international applications and for IEC listings up to 700 A, 1000 VAC/1500 VDC, use part numbers in the IEC/CE section at bottom of page.
- **Current Interruption Capability**
Non-Load break
- **Horsepower Ratings**

480V	3Ø	500 hp
600V	3Ø	500 hp

CSA HP rated when auxiliary pilots are wired to control motor control circuit.
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -15°F/Max 140°F
- **Wiring Capacity**
Min 2/0 Max 777 MCM
Aux Contacts 12-14 AWG
- **Applicable Standards**
CSA 182.1
- **Pilot Contact Amperage**
1A, 240 VAC

Receptacle (female) without lug Inlet (male) without lug



! Don't forget to add installation accessories to your order

North American Configurations

North American Color Code	Polarity	Part # without lug	Part # without lug
	L1	45-44001-P80	45-48001-P80
	L2	45-44002-P80	45-48002-P80
	L3	45-44003-P80	45-48003-P80
	NEUTRAL	45-4400N-P80	45-4800N-P80
	GROUND	45-4400T-P80	45-4800T-P80

IEC/CE Ratings

- **Amperage**
700 A
- **Voltage**
1000 VAC, 1500 VDC
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°C/Max 60°C
- **Wiring Capacity**
50 - 400 mm²
- **Applicable Standards**
CE

IEC/CE Configurations

European Color Code	Polarity	Part # without lug	Part # without lug
Brown	L1	45-44001	45-48001
Black	L2	45-44002	45-48002
Grey	L3	45-44003	45-48003
Blue	NEUTRAL	45-4400N	45-4800N
Green	GROUND	45-4400T	45-4800T
Red	POSITIVE	45-4400P	45-4800P
Black	NEGATIVE	45-4400M	45-4800M

Notes: • Not CSA listed.

INSTALLATION ACCESSORIES – SIZE S



(Bolt Included)

WIRE CAPACITY

CRIMPING LUGS

Internal Diameter		Straight w/terminal	Straight Threaded	Flexible Wiring*		Course Wiring	
in	mm	Part #	Part #	mm ²	AWG	mm ²	AWG
.43	11	45-4A50C	45-4A50D	50	1/0	70	2/0
.51	13.1	45-4A70C	45-4A70D	70	2/0	95	3/0
.57	14.5	45-4A95C	45-4A95D	95	3/0	120	4/0
.64	16.2	45-4A12C	45-4A12D	120	250	150	300
.71	18	45-4A15C	45-4A15D	150	300	185	400
.81	20.6	45-4A18C	45-4A18D	185	350	240	450
.91	23.1	45-4A24C	45-4A24D	240	450	300	500
1.03	26.1	45-4A30C	45-4A30D	300	600	400	750
1.15	29.2	45-4A40C	45-4A40D	400	750, 777	500	800

Notes: * Class H & I

HANDLES

HANDLE	Cable Outside Diameter	Part #
	.750 - .875"	45-4A753-A
	.875 - 1.000"	45-4A753-B
	1.000 - 1.125"	45-4A753-C
	1.125 - 1.250"	45-4A753-D
	1.250 - 1.375"	45-4A753-E
	1.250 - 1.375"	45-4A783-A
	1.312 - 1.437"	45-4A783-B
	1.438 - 1.562"	45-4A783-C
	1.562 - 1.688"	45-4A783-D

ANGLES

METAL ANGLE	Part #
45°	45-4A027

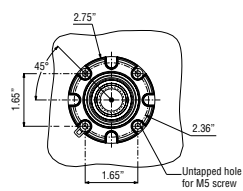
ACCESSORIES

DRAWBAR	Part #
	45-4A376

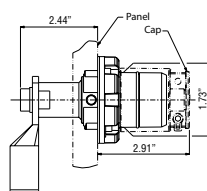
Dimensions Inlet/Receptacle – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

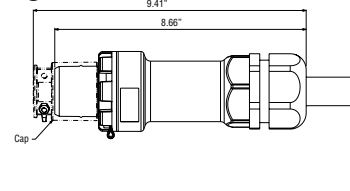
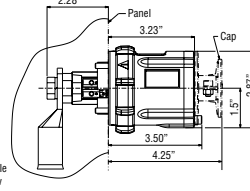
inlet



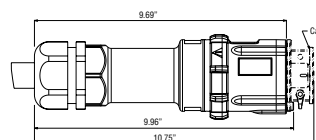
receptacle



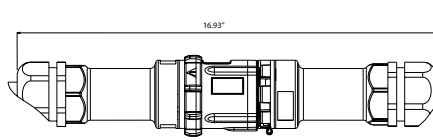
plug



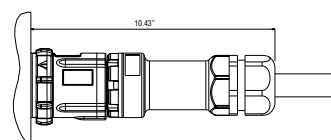
connector



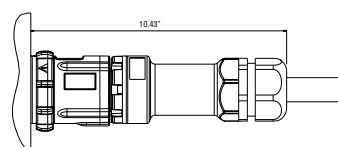
plug/connector



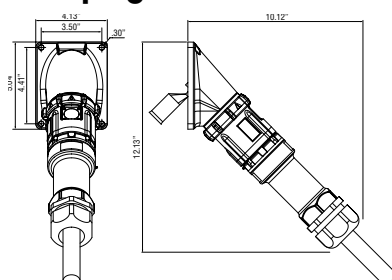
plug with connector on/off



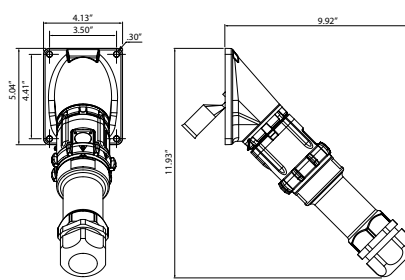
connector with plug on/off



45° inclined receptacle/angle with plug



45° inclined inlet/angle with connector



CS1000

High Amperage Plug and Receptacle



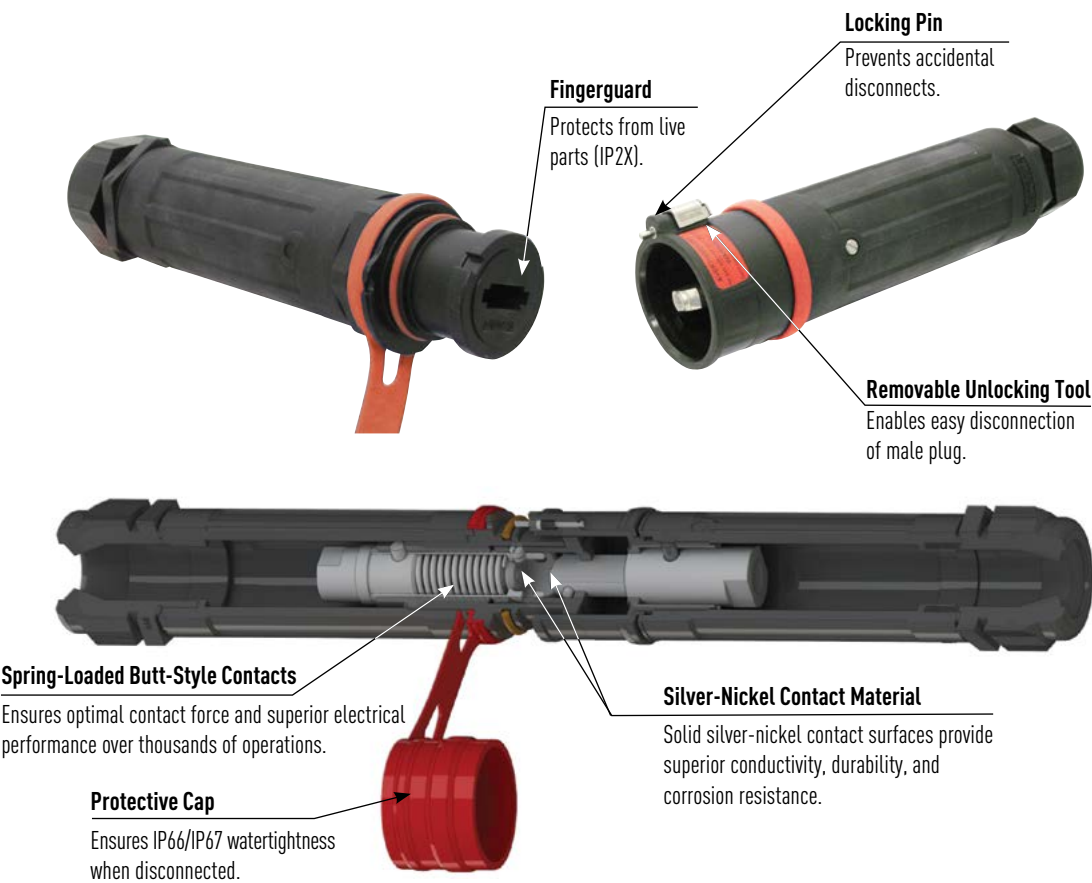
Main Advantages

- ▶ High Amperage Capacity up to 400 A at 600VAC, 600 VDC (in North America) or 1000VAC, 1500 VDC (in Europe - CE rated).
- ▶ Safety features protect users from live parts and prevent unwanted disconnection.
- ▶ Silver-nickel butt contacts provide superior performance and corrosion resistance.



- ▶ Features and Ratings p. 136
- ▶ CS1000 p. 137
- ▶ Dimensions p. 138

PRODUCT FEATURES



General Ratings

Amperage	400 A
Voltage	1000 VAC, 1500 VDC
Frequency	50-400 Hz
Environmental	IP66/IP67
Temperature	min -40°F/max 140°F

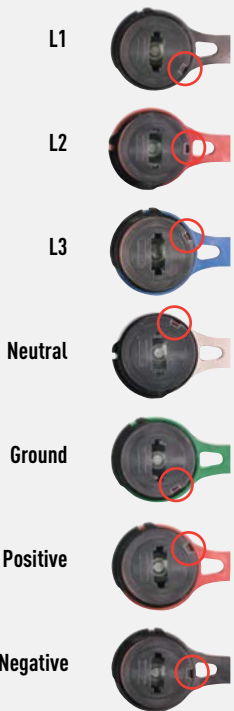
* CS1000 plugs and receptacles are UL listed in accordance with UL 1691. CS1000 devices are for use in non-load break applications up to 400 A at 600VAC, 600 VDC (in North America) or 1000VAC, 1500 VDC (in Europe - CE rated).

Listings

Category	UL	CSA	IEC
Single Pole Plugs and Receptacle	UL 1691	CSA 1691-12	60309-1

Highlighted Feature

5 Mechanical Keying Positions
(North America color codes shown.)



Operating Instructions

Connection



Disconnection



CS1000 Standard Duty Plugs & Receptacles

400 A-1000 VAC

UL/CSA Ratings

- **Amperage**
400 A
Not for Current Interrupting
- **Voltage**
600 VAC, 600 VDC
- **Short Circuit Rating**
10kA Withstand
Testing was performed with RK1 current limiting fuses sized at at least 100% of the devices ampacity rating.
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 1/0 AWG / Max 450 MCM
90°C rated wire must be used
- **Applicable Standards**
UL 1691
CSA 1691-12

Receptacle

(female) without lug (male) without lug



! Don't forget to add installation accessories to your order

North American Configurations

North American Color Code	Polarity	Part # without lug	Part # without lug
	L1	45-34001-P80	45-38001-P80
	L2	45-34002-P80	45-38002-P80
	L3	45-34003-P80	45-38003-P80
	NEUTRAL	45-3400N-P80	45-3800N-P80
	GROUND	45-3400T-P80	45-3800T-P80
	POSITIVE	45-3400P-P80	45-3800P-P80
	NEGATIVE	45-3400M-P80	45-3800M-P80

IEC/CE Configurations

European Color Code	Polarity	Part # Poly	Part # Poly
	L1	45-34001	45-38001
	L2	45-34002	45-38002
	L3	45-34003	45-38003
	NEUTRAL	45-3400N	45-3800N
	GROUND	45-3400T	45-3800T
	POSITIVE	45-3400P	45-3800P
	NEGATIVE	45-3400M	45-3800M

IEC/CE Ratings

- **Amperage**
400 A
Not for Current Interrupting
- **Voltage**
1000 VAC, 1500 VDC
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 1/0 AWG / Max 450 MCM
- **Applicable Standards**
CE

INSTALLATION ACCESSORIES – SIZE M

ANGLES

POLY ANGLE			
	0°	45-3A540	Required for mounting on panels, walls, etc.
	30°	45-3A027	With Adapter Plate

ACCESSORIES

INLET CAP	
	45-3A126
UNLOCKING TOOL	
	45-3A396
One unlocking tool on a "valet" style separable key ring is included with each male inlet.	
PADLOCKING TOOL	
	45-3A843

INSTALLATION ACCESSORIES – SIZE M

CRIMPING LUGS



Internal Diameter		Straight w/terminal		Straight Threaded		Flexible Wiring*		Course Wiring	
in	mm	Part #		Part #		mm²	AWG	mm²	AWG
.43	11	45-4A50C		45-4A50D		50	1/0¹	70	2/0
.51	13.1	45-4A70C		45-4A70D		70	2/0	95	3/0
.57	14.5	45-4A95C		45-4A95D		95	3/0	120	4/0
.64	16.2	45-4A12C		45-4A12D		120	250	150	300
.71	18	45-4A15C		45-4A15D		150	300	185	400
.81	20.6	45-4A18C		45-4A18D		185	350	240	450
.91	23.1	45-4A24C		45-4A24D		240	450	300	500

Notes: * Class H & I
¹ The ground conductor for CS1000 series devices shall be limited to a maximum size of 1/0 AWG.

HANDLES

HANDLE	Cable Outside Diameter	Part #
	.550 - 1.000"	45-3A753
	.700 - 1.260"	45-3A783

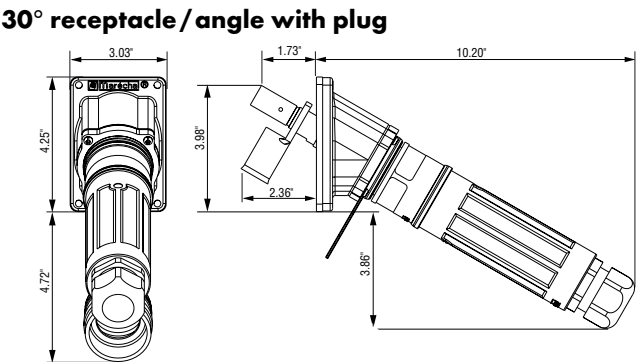
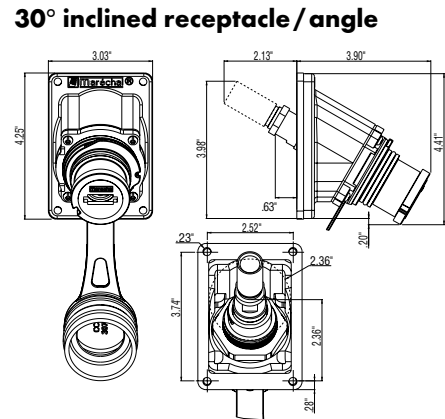
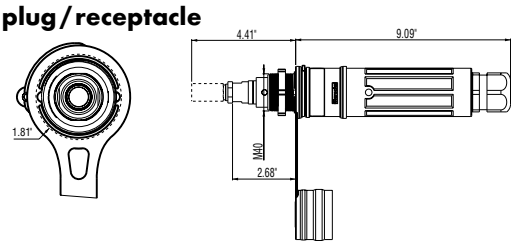
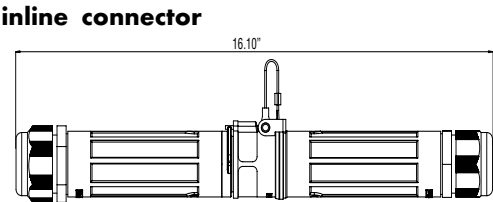
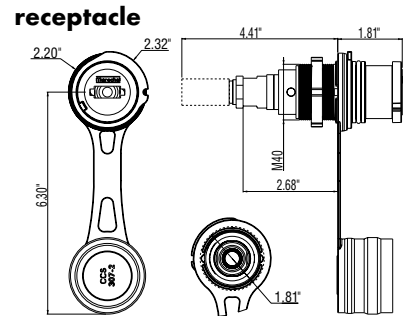
Not UL/CSA listed

HANDLE w/Cord Grip (Mesh)	Cable Outside Diameter	Part #	Cable Outside Diameter	Part #
	.500 - .625"	45-3A753-A	.875 - 1.000"	45-3A783-A
	.562 - .688"	45-3A753-B	1.000 - 1.125"	45-3A783-B
	.625 - .750"	45-3A753-C	1.125 - 1.250"	45-3A783-C
	.688 - .812"	45-3A753-D	1.250 - 1.375"	45-3A783-D
	.750 - .875"	45-3A753-E		

Heavy Duty
300 lb grip

Dimensions Inlet/Receptacle – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.



POWER DISTRIBUTION



MELTRIC manufactures a wide variety of specialty products to fit specific application needs and to help users benefit from the advantages of MELTRIC's Switch-Rated plugs and receptacles where ever connections may need to be made and broken.



CUSTOM P. 141

WIDE VARIETY OF PLATFORMS AND FEATURES

- Custom engineered
- Featuring Switch-Rated plugs and receptacles



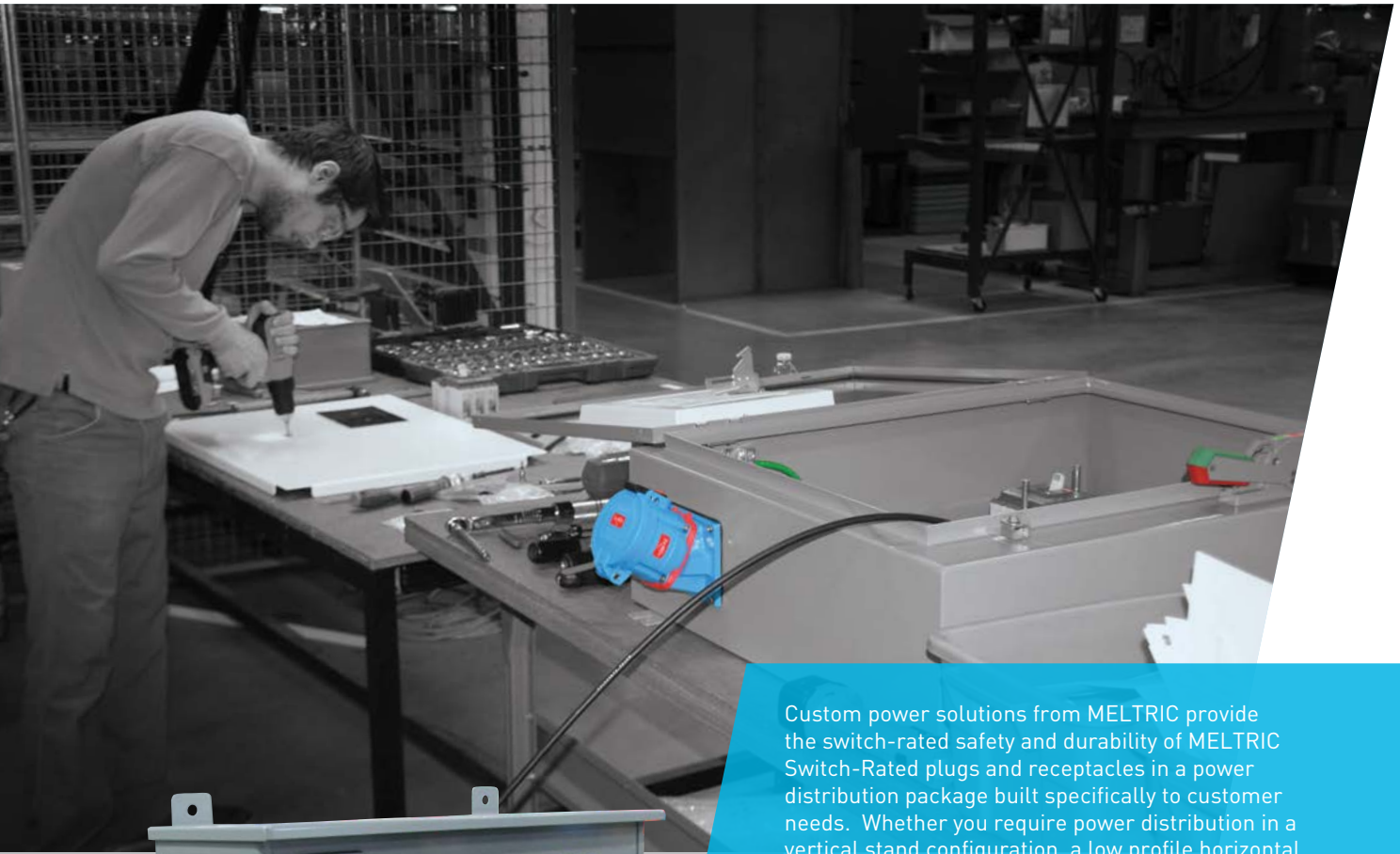
RUBBER BOX P. 143

PORTABLE RUBBER BOX PLATFORM

- Standard or custom configurations
- One, two, or three tier rubber boxes
- Featuring Switch-Rated plugs and receptacles

CUSTOM

Power Distribution



Custom power solutions from MELTRIC provide the switch-rated safety and durability of MELTRIC Switch-Rated plugs and receptacles in a power distribution package built specifically to customer needs. Whether you require power distribution in a vertical stand configuration, a low profile horizontal configuration, a custom configuration, or as a cordset; MELTRIC's engineering team can build a package to meet your needs.



Available Features

- ▶ GFCI Protection
- ▶ Color-coded Enclosures
- ▶ Phase Indication
- ▶ Stainless Steel Enclosures
- ▶ 120V Convenience Outlet
- ▶ Rain Hoods
- ▶ Timers
- ▶ Pilot Circuits
- ▶ Wheel Kits
- ▶ Shunt Trips
- ▶ Under Voltage Trips
- ▶ Lifting Provisions
- ▶ Power Transformers

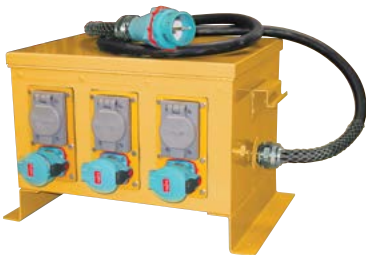
COMMON PLATFORMS



Custom Panel Solutions



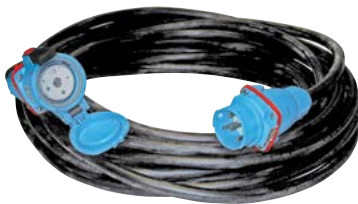
Vertical Power



Horizontal Multigang



Circuit Protected Receptacles



Cable Assembly



Breaker Plate Assembly



SB Enclosures



Rubber Box

Rubber Boxes

Power Distribution

UL Type 3R Enclosures



1 Tier

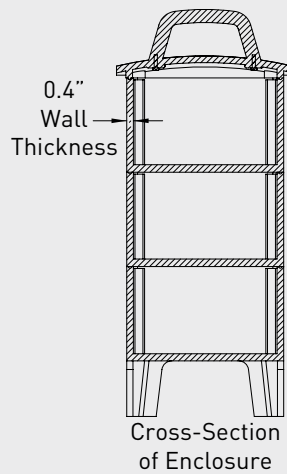
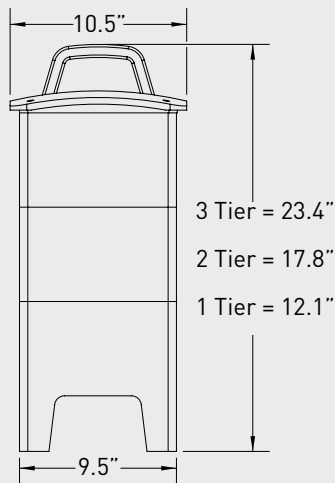


3 Tier



2 Tier

Choose from standard configurations on page 144-146 or contact MELTRIC at 800-433-7642 for customized configurations.



Power Input up to 100 A, 480 VAC.
Choose a mounted inlet or a cord & plug.



Mounted Inlet



Cord & Plug

Power Receptacles



Room for (2) DSN60 (or smaller) receptacles per side per tier.

Circuit Protection



Room for up to (10) poles of standard MCB's (mini circuit breakers) per tier.

Convenience Outlets



Room for (2) Type 5-20R duplex receptacles per side per tier or choose other convenience outlets.

1 TIER RUBBER POWER DISTRIBUTION BOXES

Configuration T1-C1

Notes: Two receptacles share a 3P breaker.



Side 1
(2) DSN Receptacles



Side 2
(2) 3 Pole MCB's



Side 3
(2) DSN Receptacles



Side 4
(1) Inlet

Voltage		Contacts	Part #: Configuration T1-C1-20 A 20 A DSN Recepts & 30 A DSN Inlet	Part #: Configuration T1-C1-30 A 30 A DSN Recepts & 60 A DSN Inlet	Part #: Configuration T1-C1-60 A 60 A DSN Recepts & 100 A DSC100C Inlet
120	208V	3P+N+G	RBT1-C1-167-20A	RBT1-C1-167-30A	RBT1-C1-167-60A
125	250V	3P+N+G	RBT1-C1-077-20A	RBT1-C1-077-30A	RBT1-C1-077-60A
480V		3P+G	RBT1-C1-043-20A	RBT1-C1-043-30A	RBT1-C1-043-60A

Configuration T1-C2



Side 1
(1) DSN Receptacles
(1) 20 A Type 5-20 Duplex GFCI



Side 2
(2) 3 Pole MCB's
(2) 20 A 1 Pole MCB's



Side 3
(1) DSN Receptacles
(1) 20 A Type 5-20 Duplex GFCI



Side 4
(1) Inlet

Voltage		Contacts	Part #: Configuration T1-C2-20 A 20 A DSN Recepts & 30 A DSN Inlet	Part #: Configuration T1-C2-30 A 30 A DSN Recepts & 60 A DSN Inlet	Part #: Configuration T1-C2-60 A 60 A DSN Recepts & 100 A DSC100C Inlet
120	208V	3P+N+G	RBT1-C2-167-20A	RBT1-C2-167-30A	RBT1-C2-167-60A
125	250V	3P+N+G	RBT1-C2-077-20A	RBT1-C2-077-30A	RBT1-C2-077-60A

Configuration T1-C3



Side 1
(1) DSN 30 A Receptacle
(1) DSN 20 A Receptacle



Side 2
(2) 30 A 3 Pole MCB
(2) 20 A 3 Pole MCB



Side 3
(1) DSN 30 A Receptacle
(1) DSN 20 A Receptacle



Side 4
(1) DSN 60 A Inlet

Voltage		Contacts	Part #: Configuration T1-C3 20/30 A DSN Recepts & 60 A DSN Inlet
120	208V	3P+N+G	RBT1-C3-167
125	250V	3P+N+G	RBT1-C3-077A
480V		3P+G	RBT1-C3-043

Notes: 30 A receptacles are protected by individual 30 A breakers. 20 A receptacles share a 20 A breaker.

* Ampacity ratings of MCB's match the receptacles they protect.

2 TIER RUBBER POWER DISTRIBUTION BOXES

Configuration T2-C1

Notes: Two receptacles share a 3P breaker.



Side 1

- (1) DSN 30 A Receptacle
- (1) DSN 20 A Receptacle
- (1) DSN 60 A Receptacle



Side 2

- (2) 30 A 3 Pole MCB's
- (2) 20 A 3 Pole MCB's
- (2) 60 A 3 Pole MCB's
- (2) 20 A 1 Pole MCB's



Side 3

- (1) DSN 30 A Receptacle
- (1) DSN 20 A Receptacle
- (1) DSN 60 A Receptacle



Side 4

- (2) 20 A Type 5-20 Duplex GFCI
- (1) DS100C 100 A Inlet

Voltage		Contacts	Part #: Configuration T2-C1 20/30/60 A DSN Recepts & 100 A DS100C Inlet
120	208V	3P+N+G	RBT2-C1-167
125	250V	3P+N+G	RBT2-C1-077

Configuration T2-C2



Side 1

- (4) DSN Receptacles



Side 2

- (4) 3 Pole MCB's
- (2) 20 A 1 Pole MCB's



Side 3

- (4) DSN Receptacles



Side 4

- (2) 20 A Type 5-20 Duplex GFCI
- (1) DS100C 100 A Inlet

Voltage		Contacts	Part #: Configuration T2-C2-20 A 20 A DSN Recepts & 100 A DS100C Inlet	Part #: Configuration T2-C2-30 A 30 A DSN Recepts & 100 A DS100C Inlet
120	208V	3P+N+G	RBT2-C2-167-20A	RBT2-C2-167-30A
125	250V	3P+N+G	RBT2-C2-077-20A	RBT2-C2-077-30A

* Ampacity ratings of MCB's match the receptacles they protect.

3 TIER RUBBER POWER DISTRIBUTION BOXES

Configuration T3-C1

Notes: Two receptacles share a 3P breaker.



Side 1

- (1) 20 A Type 5-20 Duplex GFCI
- (2) DSN 20 A Receptacle
- (2) DSN 30 A Receptacle



Side 2

- (6) 20 A 1 Pole MCB's
- (4) 20 A 3 Pole MCB's
- (4) 30 A 3 Pole MCB's



Side 3

- (1) 20 A Type 5-20 Duplex GFCI
- (2) DSN 20 A Receptacle
- (2) DSN 30 A Receptacle



Side 4

- (1) 20 A Type 5-20 Duplex GFCI
- (1) DS100C 100 A Inlet

Voltage		Contacts	Part #: Configuration T3-C1 20 & 30 A DSN Recepts & 100 A DS100C Inlet
120	208V	3P+N+G	RBT3-C1-167
125	250V	3P+N+G	RBT3-C1-077

Configuration T3-C2



Side 1

- (1) DSN Receptacles
- (1) 20 A Type 5-20 Duplex GFCI



Side 2

- (2) 3 Pole MCB's
- (2) 20 A 1 Pole MCB's



Side 3

- (1) DSN Receptacles
- (1) 20 A Type 5-20 Duplex GFCI



Side 4

- (1) Inlet

Voltage		Contacts	Part #: Configuration T3-C2-20 A 20 A & 60 A DSN Recepts & 100 A DS100C Inlet	Part #: Configuration T3-C2-30 A 30 A & 60 A DSN Recepts & 100 A DS100C Inlet
120	208V	3P+N+G	RBT3-C2-167-20A	RBT3-C2-167-30A
125	250V	3P+N+G	RBT3-C2-077-20A	RBT3-C2-077-30A

* Ampacity ratings of MCB's match the receptacles they protect.

CIRCUIT PROTECTED

Receptacles



MELTRIC manufactures a variety of specialty products that allow facilities to benefit from switch-rated receptacles in combination with other devices including circuit protected receptacles, receptacles with GFCI protections, and receptacles mounted on safety switches. Standard and custom configurations can be ordered.



CPR P. 149

LOCAL CIRCUIT PROTECTION

- 20 A, 30 A, of 60 A sizes
- Switch-rated receptacles mounted and wired to circuit protection device
- Fuseholder or mini-circuit breaker options



GFCI P. 155

GFCI PROTECTION

- 20 A, 30 A, 60 A, and 100 A sizes - All industries
- DSN receptacles mounted and wired to GFCI
- Detects AC and DC ground faults



SAFETY SWITCHES P. 157

FOR ADDED PROTECTION

- 30 A to 200 A sizes
- Heavy duty, single throw, fusible or non-fusible safety switch
- Switch-Rated receptacles mounted and wired to disconnect switch

Receptacles & Wall Boxes

with Integral Circuit Protection



MELTRIC's receptacle/wall box combinations with integral circuit protection combine the safety of a MELTRIC DSN series switch-rated receptacle with the convenience of local circuit protection in a compact package. The receptacle is premounted to the box and wired to the circuit protection device for easy installation.

Models are available with or without a viewing window and in either painted mild steel or stainless steel enclosures. The 20 A and 30 A models are available and equipped with fuse holders or mini-circuit breakers and the 60 A models are available with fuseholders or supplementary protectors.

Fuseholder Equipped Models



MELTRIC's DSN Series switch-rated plugs and receptacles are UL rated to withstand and close-into short circuit currents up to 100kA in circuits protected by RK1 current limiting fuses or other fuses with lower let through energy like Class CC. This allows users to take advantage of the DSN's capabilities in applications where higher fault currents are not already protected with the required fusing.

Fuseholder models feature Ultra-Safe Fuse Holders (UL 512 / IEC 269). The fuseholders have a blown fuse indicator light for each pole and pivot open for easy and finger safe fuse replacement. Fuses are not provided. They should be selected for the specific application.

Circuit Breaker Equipped Models



Circuit-breaker equipped models allow users to provide overload protection in a convenient location near the application. The 20 A & 30 A models feature miniature circuit breakers (UL 489) and the 60 A models use supplementary protectors (UL 1077). All are provided standard with a 'C' trip curve. A 'D' trip curve for the 20 A and 30 A breakers, and a 'B' trip curve for the 60 A supplementary protectors are also available as options.

Trip Curve Characteristics

"B" Curve: The protective device will instantaneously trip @ 3X to 5X its rated current

"C" Curve: The protective device will instantaneously trip @ 5X to 10X its rated current

"D" Curve: The protective device will instantaneously trip @ 10X to 20X its rated current

Enclosures

The wall boxes are Hoffman Inline® series enclosures.

- Dimensions:** **20 A/30 A Fuse Holder/Circuit Breaker**
Box exteriors = 9.84" x 7.87" x 5.91" (250mm x 200mm x 150mm).
Mounting footprint = 12.5" x 8" including the pre-installed mounting brackets.
- 60 A Supplementary Circuit Breaker**
Box exteriors = 9.84" x 7.87" x 5.91" (250mm x 200mm x 150mm).
Mounting footprint = 12.5" x 8" including the pre-installed mounting brackets.
- 60 A Fuse Holder**
Box exteriors = 11.81" x 9.84" x 5.91" (300mm x 250mm x 150mm).
Mounting footprint = 14.4" x 9.8" including the pre-installed mounting brackets.
- Box Materials:** Mild steel boxes are 16 gauge, stainless steel boxes are 14 gauge type 304.
 Available door windows are 3/16" clear polycarbonate.
- Latch:** Quarter turn slotted stainless steel design for easy operation and durability.
- Finish:** Mild steel boxes are painted with a light gray textured polyester powdercoat.
 Stainless Steel boxes have a #4 brushed finish.
- Environmental:** Mild steel boxes are NEMA Type 4 and 12.
 Stainless steel boxes are NEMA Type 4, 4X and 12.



MILD STEEL BOXES with Ultra-Safe Fuse Holders

Ratings

- **Voltage**
20 A: 600 VAC
30 A: 600 VAC
60 A: 600 VAC
- **Environmental Ratings**
Overall: NEMA Type 4
Box: NEMA Type 4, 12
Receptacle: NEMA Type 4X
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Listings**
Box: UL 508A

Receptacle: UL 2682,
UL 1682, CSA 22.2 No. 182.1,
IEC 60309-1

Fuseholder: UL 512, IEC 269

Standard Box



Box with Viewing Window



North American Configurations

Voltage	Polarity	Part #			Part #		
		20 A	30 A	60 A	20 A	30 A	60 A
120V	1P+N+G	FB-63-14165	FB-63-34165	FB-63-64165	FBW-63-14165	FBW-63-34165	FBW-63-64165
120 208V	3P+N+G	FB-63-14167	FB-63-34167	FB-63-64167	FBW-63-14167	FBW-63-34167	FBW-63-64167
125V	1P+N+G	FB-63-14075	FB-63-34075	FB-63-64075	FBW-63-14075	FBW-63-34075	FBW-63-64075
125 250V	2P+N+G	FB-63-14076	FB-63-34076	FB-63-64076	FBW-63-14076	FBW-63-34076	FBW-63-64076
208V	2P+G	FB-63-14162	FB-63-34162	FB-63-64162	FBW-63-14162	FBW-63-34162	FBW-63-64162
208V	3P+G	FB-63-14163	FB-63-34163	FB-63-64163	FBW-63-14163	FBW-63-34163	FBW-63-64163
250V	2P+G	FB-63-14072	FB-63-34072	FB-63-64072	FBW-63-14072	FBW-63-34072	FBW-63-64072
250V	3P+G	FB-63-14073	FB-63-34073	FB-63-64073	FBW-63-14073	FBW-63-34073	FBW-63-64073
277V	1P+N+G	FB-63-14045	FB-63-34045	FB-63-64045	FBW-63-14045	FBW-63-34045	FBW-63-64045
277 480V	3P+N+G	FB-63-14047	FB-63-34047	FB-63-64047	FBW-63-14047	FBW-63-34047	FBW-63-64047
347 600V	3P+N+G	FB-63-14147	FB-63-34147	FB-63-64147	FBW-63-14147	FBW-63-34147	FBW-63-64147
480V	2P+G	FB-63-14042	FB-63-34042	FB-63-64042	FBW-63-14042	FBW-63-34147	FBW-63-64042
480V	3P+G	FB-63-14043	FB-63-34043	FB-63-64043	FBW-63-14043	FBW-63-34042	FBW-63-64043
600V	2P+G	FB-63-14142	FB-63-34142	FB-63-64142	FBW-63-14142	FBW-63-34043	FBW-63-64142
600V	3P+G	FB-63-14143	FB-63-34143	FB-63-64143	FBW-63-14143	FBW-63-34142	FBW-63-64143

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972
Mushroom Pawl	Recept # - 375
Padlock Pawl	Recept # - 843
Closed Lid Configuration	Recept # - NC



30 A, 600V Ultra-Safe Fuse Holders for Class CC fuses are standard. They include a blown fuse indicator for each pole. Fuses are not included.



See pages 233-242 for detailed information on these options

SS BOXES with Ultra-Safe Fuse Holders

Standard Box



Box with Viewing Window



North American Configurations

Voltage	Polarity	Part #			Part #		
		20 A	30 A	60 A	20 A	30 A	60 A
120V	1P+N+G	FBSS-63-14165	FBSS-63-34165	FBSS-63-64165	FBWSS-63-14165	FBWSS-63-34165	FBWSS-63-64165
120 208	3P+N+G	FBSS-63-14167	FBSS-63-34167	FBSS-63-64167	FBWSS-63-14167	FBWSS-63-34167	FBWSS-63-64167
125V	1P+N+G	FBSS-63-14075	FBSS-63-34075	FBSS-63-64075	FBWSS-63-14075	FBWSS-63-34075	FBWSS-63-64075
125 250	2P+N+G	FBSS-63-14076	FBSS-63-34076	FBSS-63-64076	FBWSS-63-14076	FBWSS-63-34076	FBWSS-63-64076
208V	2P+G	FBSS-63-14162	FBSS-63-34162	FBSS-63-64162	FBWSS-63-14162	FBWSS-63-34162	FBWSS-63-64162
208V	3P+G	FBSS-63-14163	FBSS-63-34163	FBSS-63-64163	FBWSS-63-14163	FBWSS-63-34163	FBWSS-63-64163
250V	2P+G	FBSS-63-14072	FBSS-63-34072	FBSS-63-64072	FBWSS-63-14072	FBWSS-63-34072	FBWSS-63-64072
250V	3P+G	FBSS-63-14073	FBSS-63-34073	FBSS-63-64073	FBWSS-63-14073	FBWSS-63-34073	FBWSS-63-64073
277V	1P+N+G	FBSS-63-14045	FBSS-63-34045	FBSS-63-64045	FBWSS-63-14045	FBWSS-63-34045	FBWSS-63-64045
277 480	3P+N+G	FBSS-63-14047	FBSS-63-34047	FBSS-63-64047	FBWSS-63-14047	FBWSS-63-34047	FBWSS-63-64047
347 600	3P+N+G	FBSS-63-14147	FBSS-63-34147	FBSS-63-64147	FBWSS-63-14147	FBWSS-63-34147	FBWSS-63-64147
480V	2P+G	FBSS-63-14042	FBSS-63-34042	FBSS-63-64042	FBWSS-63-14042	FBWSS-63-34042	FBWSS-63-64042
480V	3P+G	FBSS-63-14043	FBSS-63-34043	FBSS-63-64043	FBWSS-63-14043	FBWSS-63-34043	FBWSS-63-64043
600V	2P+G	FBSS-63-14142	FBSS-63-34142	FBSS-63-64142	FBWSS-63-14142	FBWSS-63-34142	FBWSS-63-64142
600V	3P+G	FBSS-63-14143	FBSS-63-34143	FBSS-63-64143	FBWSS-63-14143	FBWSS-63-34143	FBWSS-63-64143

Ratings

- Voltage**
20 A: 600 VAC
30 A: 600 VAC
60 A: 600 VAC
- Environmental Ratings**
Overall: NEMA Type 4
Box: NEMA Type 4X, 12
Receptacle: NEMA Type 4X
- Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- Listings**
Box: UL 508A
Receptacle: UL 2682,
UL 1682, CSA 22.2 No. 182.1,
IEC 60309-1
Fuseholder: UL 512, IEC 269

Receptacle Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972
Mushroom Pawl	Recept # - 375
Padlock Pawl	Recept # - 843
Closed Lid Configuration	Recept # - NC



30 A, 600V Ultra-Safe Fuse Holders for Class CC fuses are standard. They include a blown fuse indicator for each pole. Fuses are not included.

Main Options



Auxiliary/Pilot
Contacts



Mushroom
Pawl



Padlock Pawl



Closed Lid
Configuration

Recommended for cord
applications to keep lid
tucked in to avoid damage.

See pages 233-242 for detailed
information on these options

MILD STEEL BOXES with Circuit Breakers

Ratings

- **Voltage**
20 A: 480 VAC
30 A: 480 VAC
60 A: 480 VAC
- **Environmental Ratings**
Overall: NEMA Type 4
Box: NEMA Type 4, 12
Receptacle: NEMA Type 4X
- **Temperature Range**
Min -40°F/Max 140°F for 20 A & 30 A
Min 23°F/Max 104°F for 60 A
See pg 256 for temps below -15°F.
- **Listings**
Box: UL 508A
Receptacle: UL 2682,
UL 1682, CSA 22.2 No. 182.1,
IEC 60309-1
Breaker: UL 489 for 20 A & 30 A,
UL 1077 for 60 A

Standard Box



Box with Viewing Window



! Don't forget to add installation accessories to your order

North American Configurations

Voltage	Polarity	Part #			Part #		
		20 A	30 A	60 A	20 A	30 A	60 A
120V	1P+N+G	CB-63-14165	CB-63-34165	CB-63-64165	CBW-63-14165	CBW-63-34165	CBW-63-64165
120 208V	3P+N+G	CB-63-14167	CB-63-34167	CB-63-64167	CBW-63-14167	CBW-63-34167	CBW-63-64167
125V	1P+N+G	CB-63-14075	CB-63-34075	CB-63-64075	CBW-63-14075	CBW-63-34075	CBW-63-64075
125 250V	2P+N+G	CB-63-14076	CB-63-34076	CB-63-64075	CBW-63-14076	CBW-63-34076	CBW-63-64076
208V	2P+G	CB-63-14162	CB-63-34162	CB-63-64076	CBW-63-14162	CBW-63-34162	CBW-63-64162
208V	3P+G	CB-63-14163	CB-63-34163	CB-63-64162	CBW-63-14163	CBW-63-34163	CBW-63-64163
250V	2P+G	CB-63-14072	CB-63-34072	CB-63-64163	CBW-63-14072	CBW-63-34072	CBW-63-64072
250V	3P+G	CB-63-14073	CB-63-34073	CB-63-64072	CBW-63-14073	CBW-63-34073	CBW-63-64073
277V	1P+N+G	CB-63-14045	CB-63-34045	CB-63-64073	CBW-63-14045	CBW-63-34045	CBW-63-64045
277 480V	3P+N+G	CB-63-14047	CB-63-34047	CB-63-64045	CBW-63-14047	CBW-63-34047	CBW-63-64047
480V	2P+G	CB-63-14042	CB-63-34042	CB-63-64047	CBW-63-14042	CBW-63-34042	CBW-63-64042
480V	3P+G	CB-63-14043	CB-63-34043	CB-63-64042	CBW-63-14043	CBW-63-34043	CBW-63-64043

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration

Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options

Suffix

Circuit Protection Options

Part

With 2 Auxiliary/Pilot Contacts (30/60 A only)	Recept # - 972	"D" Trip Curve (20/30 A only)	Part # - D
With 3 Auxiliary/Pilot Contacts (60 A only)	Recept # - 973	"B" Trip Curve (60 A only)	Part # - B
With 4 Auxiliary/Pilot Contacts (60 A only)	Recept # - 974	Standard circuit protectors include a "C" trip curve	
Mushroom Pawl	Recept # - 375		
Padlock Pawl	Recept # - 843		
Closed Lid Configuration	Recept # - NC		

! See pages 233-242 for detailed information on these options



STAINLESS STEEL BOXES with Circuit Breakers

Standard Box



Box with Viewing Window



North American Configurations

Voltage	Polarity	Part #			Part #		
		20 A	30 A	60 A	20 A	30 A	60 A
120V	1P+N+G	CBSS-63-14165	CBSS-63-34165	CBSS-63-64165	CBWSS-63-14165	CBWSS-63-34165	CBWSS-63-64165
120 208	3P+N+G	CBSS-63-14167	CBSS-63-34167	CBSS-63-64167	CBWSS-63-14167	CBWSS-63-34167	CBWSS-63-64167
125V	1P+N+G	CBSS-63-14075	CBSS-63-34075	CBSS-63-64075	CBWSS-63-14075	CBWSS-63-34075	CBWSS-63-64075
125 250	2P+N+G	CBSS-63-14076	CBSS-63-34076	CBSS-63-64076	CBWSS-63-14076	CBWSS-63-34076	CBWSS-63-64076
208V	2P+G	CBSS-63-14162	CBSS-63-34162	CBSS-63-64162	CBWSS-63-14162	CBWSS-63-34162	CBWSS-63-64162
208V	3P+G	CBSS-63-14163	CBSS-63-34163	CBSS-63-64163	CBWSS-63-14163	CBWSS-63-34163	CBWSS-63-64163
250V	2P+G	CBSS-63-14072	CBSS-63-34072	CBSS-63-64072	CBWSS-63-14072	CBWSS-63-34072	CBWSS-63-64072
250V	3P+G	CBSS-63-14073	CBSS-63-34073	CBSS-63-64073	CBWSS-63-14073	CBWSS-63-34073	CBWSS-63-64073
277V	1P+N+G	CBSS-63-14045	CBSS-63-34045	CBSS-63-64045	CBWSS-63-14045	CBWSS-63-34045	CBWSS-63-64045
277 480	3P+N+G	CBSS-63-14047	CBSS-63-34047	CBSS-63-64047	CBWSS-63-14047	CBWSS-63-34047	CBWSS-63-64047
480V	2P+G	CBSS-63-14042	CBSS-63-34042	CBSS-63-64042	CBWSS-63-14042	CBWSS-63-34042	CBWSS-63-64042
480V	3P+G	CBSS-63-14043	CBSS-63-34043	CBSS-63-64043	CBWSS-63-14043	CBWSS-63-34043	CBWSS-63-64043

Ratings

- **Voltage**
20 A: 480 VAC
30 A: 480 VAC
60 A: 480 VAC
- **Environmental Ratings**
Overall: NEMA Type 4X
Box: NEMA Type 4X, 12
Receptacle: NEMA Type 4X
- **Temperature Range**
Min -40°F/Max 140°F for 20 A & 30 A
Min 23°F/Max 104°F for 60 A
See pg 256 for temps below -15°F.
- **Listings**
Box: UL 508A
Receptacle: UL 2682,
UL 1682, CSA 22.2 No. 182.1,
IEC 60309-1
Breaker: UL 489 for 20 A & 30 A,
UL 1077 for 60 A

Receptacle Options	Suffix #	Circuit Protection Options	Part #
With 2 Auxiliary/Pilot Contacts (30/60 A only)	Recept # - 972	"D" Trip Curve (20/30 A only)	Part # - D
With 3 Auxiliary/Pilot Contacts (60 A only)	Recept # - 973	"B" Trip Curve (60 A only)	Part # - B
With 4 Auxiliary/Pilot Contacts (60 A only)	Recept # - 974	Standard circuit protectors include a "C" trip curve	
Mushroom Pawl	Recept # - 375		
Padlock Pawl	Recept # - 843		
Closed Lid Configuration	Recept # - NC		



Main Options



**Auxiliary/Pilot
Contacts**



**Mushroom
Pawl**



Padlock Pawl



**Closed Lid
Configuration**

Recommended for cord
applications to keep lid
tucked in to avoid damage.



See pages 233-242 for detailed
information on these options

Receptacle/GFCI

Combinations



MELTRIC DSN Series Switch-Rated receptacles pre-mounted on UL943 Ground fault circuit interrupters (GFCIs) provide advanced personnel protection to workers. The receptacle/GFCI combinations are simple to install and require a minimal amount of connections. Standard configurations are available from 20 A to 100 A and up to 250 VAC. For higher voltages or custom configurations a UL508A listing is available.

Protection against nuisance tripping

- Inverse trip time curve minimizes nuisance tripping while maximizing personnel protection
- Trip curve exceeds requirements specified by UL 943
- Measures true RMS value
- Quicker trip time at higher fault currents
- Advanced filtering circuitry
- Grounded neutral protection - helps to prevent accidental, multiple neutral-ground bonding downstream in the system

DSN Receptacle/GFCI Combinations



Voltage	Polarity	Part #				
		20 A	30 A	60 A	100 A	100 A (Metal Receptacle)
120V	1P+N+G	63-17165-LG8	63-37165-LG8	63-67165-LG8	33-67175-C-K16-LG8	37-67175-C-K16-LG8
208V	3P+G	63-17163-LG8	63-37163-LG8	63-67163-LG8	33-67233-C-K16-LG8	37-67233-C-K16-LG8
250V	3P+G	63-17073-LG8	63-37073-LG8	63-67073-LG8	33-67173-C-K07-LG8	37-67173-C-K07-LG8
480V	3P+G	63-17043-LG8	63-37043-LG8	63-67043-LG8	33-67243-C-K04-LG8	37-67243-C-K04-LG8
600V	3P+G	63-17143-LG8	63-37143-LG8	63-67143-LG8	33-67183-C-K14-LG8	37-67183-C-K14-LG8

Ratings/Listings

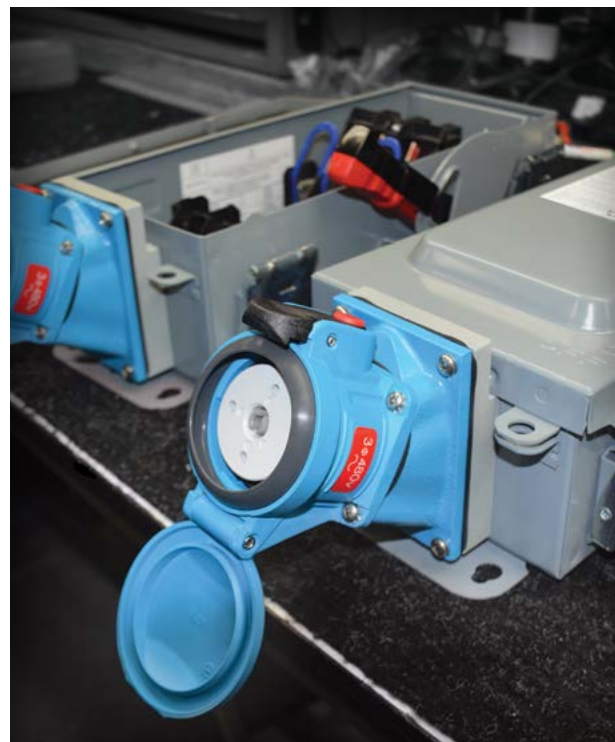
Environmental	Type 4X
GFCI	Protection from 10 - 500mA UL508A listed

ORDERING INFORMATION FOR OPTIONAL CONFIGURATIONS

To order optional stainless steel, change suffix “-LG8” to “LG9”.	Example: 120 VAC (1P+N+G) = 63-17165-LG9
To order Emergency Stop Button, add suffix -S to the part number.	Example: 120 VAC (1P+N+G) = 63-17165-LG8-S

Disconnects

Safety Switch/Receptacle Combinations



MELTRIC's non-interlocked safety switch disconnects are intended for use in power supply applications where additional over current and short circuit protection is desired. Since DECONTACTOR® Series products are UL and CSA Switch-rated, there is no need for the receptacle to be interlocked to the switch. The load may be safely made or broken by throwing the switch lever or by simply connecting or disconnecting the plug.

The standard MELTRIC Safety Switch Disconnect consists of a DS Series receptacle and angle mounted and wired to a heavy duty, single throw, fusible safety switch. They can optionally be provided with DSN series DECONTACTORS, straight mounting adapters, non-fused switches, or with circuit breaker protection.

Options:

- DSN Receptacle (DS is standard)
- Straight Adapter (Angle is standard)
- Non-Fused (Fused is standard)
- Viewing Window
- Reverse Service
- Canadian CSA listed enclosure



RECEPTACLE/DISCONNECT COMBINATIONS



Voltage	Polarity	Part #	Part #		Part #		Part #
		30 A Poly	60 A Poly	60 A Metal	100 A Poly	100 A Metal	200 A Metal
120V	1P+N+G	33-37165-22X	33-67165-22X	37-67165-22X	33-97165-22X	37-97165-22X	37-27165-22X
120 208	2P+N+G	33-37166-22X	33-67166-22X	37-67166-22X	33-97166-22X	37-97166-22X	37-27166-22X
120 208	3P+N+G	33-37167-42X	33-67167-42X	37-67167-42X	33-97167-42X	37-97167-42X	37-27167-42X
125 250	2P+N+G	33-37076-22X	33-67076-22X	37-67076-22X	33-97076-22X	37-97076-22X	37-27076-22X
208V	3P+G	33-37163-32X	33-67163-32X	37-67163-32X	33-97163-32X	37-97163-32X	37-27163-32X
208V	2P+G	33-37162-12X	33-67162-12X	37-67162-12X	33-97162-12X	37-97162-12X	37-27162-12X
250V	2P+G	33-37072-12X	33-67072-12X	37-67072-12X	33-97072-12X	37-97072-12X	37-27072-12X
480V	2P+G	33-37042-12X	33-67042-12X	37-67042-12X	33-97042-12X	37-97042-12X	37-27042-12X
277 480	2P+N+G	33-37046-22X	33-67046-22X	37-67046-22X	33-97046-22X	37-97046-22X	37-27046-22X
277 480	3P+N+G	33-37047-42X	33-67047-42X	37-67047-42X	33-97047-42X	37-97047-42X	37-27047-42X
480V	3P+G	33-37043-32X	33-67043-32X	37-67043-32X	33-97043-32X	37-97043-32X	37-27043-32X
347 600V	2P+N+G	33-37146-22X	33-67146-22X	37-67146-22X	33-97146-22X	37-97146-22X	37-27146-22X
347 600V	3P+N+G	33-37147-42X	33-67147-42X	37-67147-42X	33-97147-42X	37-97147-42X	37-27147-42X
600V	3P+G	33-37143-32X	33-67143-32X	37-67143-32X	33-97143-32X	37-97143-32X	37-27143-32X
600V	2P+G	33-37142-12X	33-67142-12X	37-67142-12X	33-97142-12X	37-97142-12X	37-27142-12X

- Notes:**
- When ordering a Safety Switch Disconnect, replace the "X" with the appropriate number that represents the NEMA Rating of choice.
 - For higher amperage devices, contact MELTRIC's Sales Office.

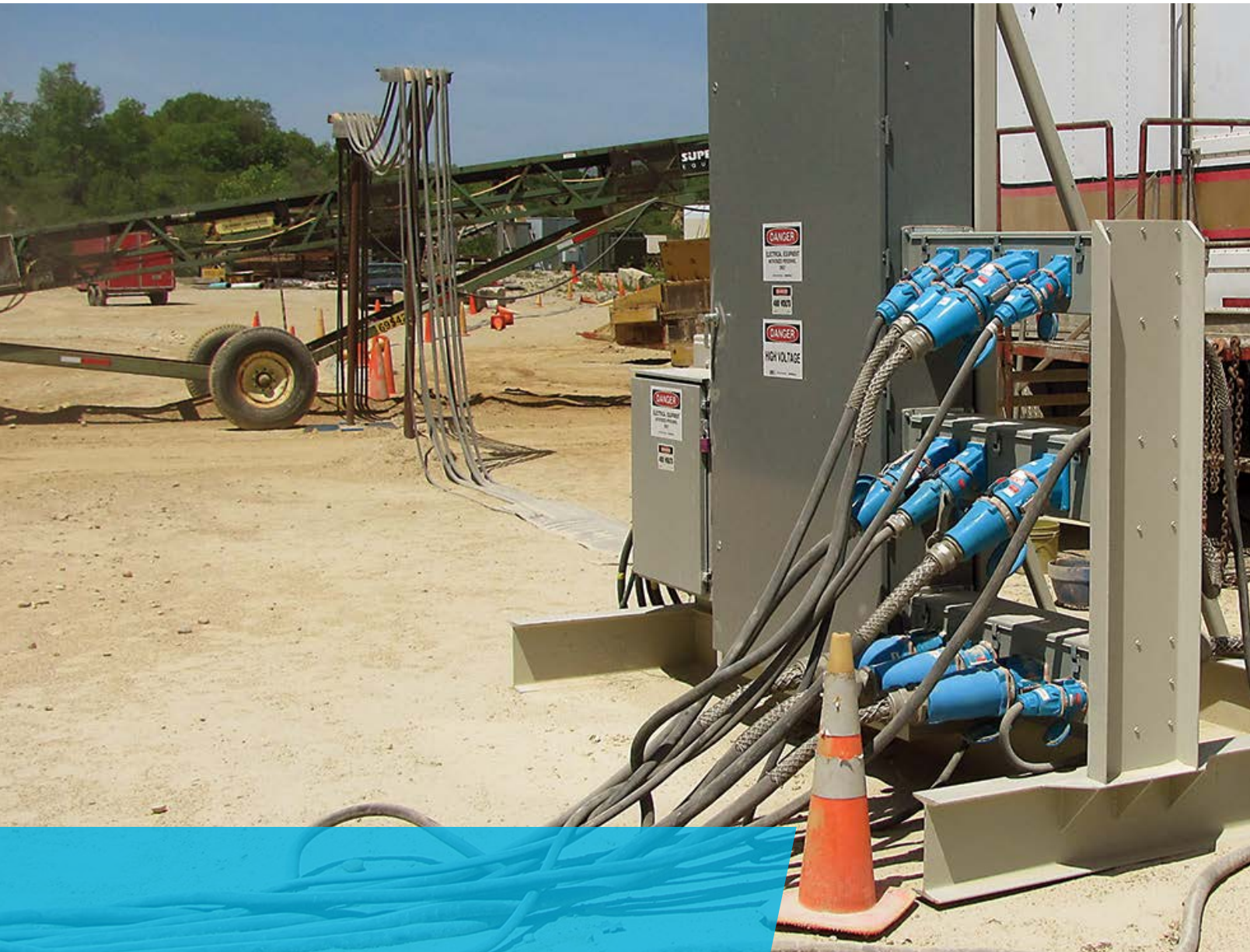
NEMA GUIDELINES

X (NUMBER)	NEMA RATING
9	Type 4X
7	Type 12
5	Type 3R
1	Type 1

ORDERING INFORMATION FOR OPTIONAL CONFIGURATIONS

DSN Receptacle	To order a DSN receptacle (20-60 A), change prefix "33" to "63".	Example: DSN 60 A Poly Receptacle 250 VAC (2P+G) Type 1 = 63-67072-121
Straight Adapter	To order a straight adapter, add suffix -S to the part number.	Example: DS 60 A Metal Receptacle 480 VAC (3P+G) Type 1 = 37-67043-321-S
Non-Fused	To order a non fused device, add suffix -NF to the part number.	Example: DS 30 A Poly Receptacle 250 VAC (2P+G) Type 3R = 33-37072-125-NF
Canadian	To order a CSA listed enclosure, add suffix -CSA to the part number. CSA enclosures are provided with viewing windows as standard.	

SPECIALTY PRODUCTS



MELTRIC manufactures a wide variety of specialty products to fit specific application needs and to help users benefit from the advantages of MELTRIC's switch-rated plugs and receptacles where ever connections may need to be made and broken.

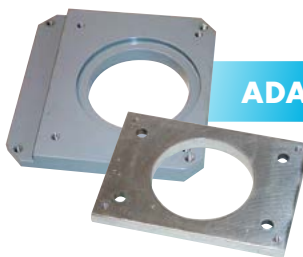


WS P. 161



WELDING CONNECTORS

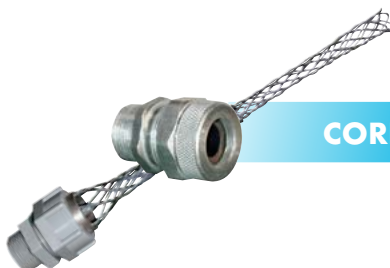
- 200 A or 300 A sizes
- 50 VAC max
- Amperage: 325 A continuous or 500 A intermittent



ADAPTER PLATES P. 163

FOR EASY RETROFITS

- Install on existing back box, disconnect switch, or mechanical interlock
- Standard or custom plates available



CORD GRIPS P. 165

FOR SECURE CORD MOUNTING

- Poly or metal
- With or without mesh
- Non-hazardous or hazardous locations



VOLTAGE METER P. 167

FOR TESTING MELTRIC RECEPTACLES

- 20 A to 200 A sizes
- Test voltage or motor rotation
- Featuring DSN and DS inlets

WS Welding Connectors

General Ratings

- **Voltage**
50 VAC Max
- **Amperage**
325 A Continuous
500 A Intermittent

WS devices allow users to make fast and reliable connections of welding cables. Their spring-loaded silver contacts provide connections that are unaffected by cable movement or vibration and operate with a self-cleaning wiping action that ensures a reliable electrical connection every time.

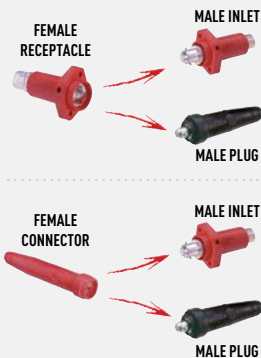


The chart to the right is a guideline for wiring sizes based on duty cycles.

Wiring Hole (in ²) (mm ²)	Current Interruption Capabilities		
	30% Duty	60% Duty	100% Duty
.025 16	150 A	100 A	75 A
.047 30	200 A	125 A	100 A
.062 40	250 A	150 A	125 A
.078 50	300 A	200 A	150 A
.116 75	350 A	250 A	200 A
.155 100	400 A	300 A	250 A
.186 120	450 A	350 A	275 A
.233 150	500 A	450 A	325 A

Application Note

Interchangeability



Receptacle Lug Type Connection (female)



Wiring Hole (in ²) (mm ²)	Type 2 200 A	Type 3 300 A
.025 16	4-2401-A	
.047 30	4-2401-B	
.062 40	4-2401-C	
.078 50	4-2401-D	4-3401-E
.116 75		4-3401-F
.155 100		4-3401-G

Inlet Lug Type Connection (male)



Wiring Hole (in ²) (mm ²)	Type 2 200 A	Type 3 300 A
.025 16	4-2901-A	
.047 30	4-2901-B	
.062 40	4-2901-C	
.078 50	4-2901-D	4-3901-E
.116 75		4-3901-F
.155 100		4-3901-G

Connector Crimp/Solder Connection (female)



Wiring Hole (in ²) (mm ²)	Type 2 200 A	Type 3 300 A
.025 16	4-2301-A	
.047 30	4-2301-B	
.062 40	4-2301-C	
.078 50	4-2301-D	4-3301-E
.116 75		4-3301-F
.155 100		4-3301-G

Plug Crimp/Solder Connection (male)

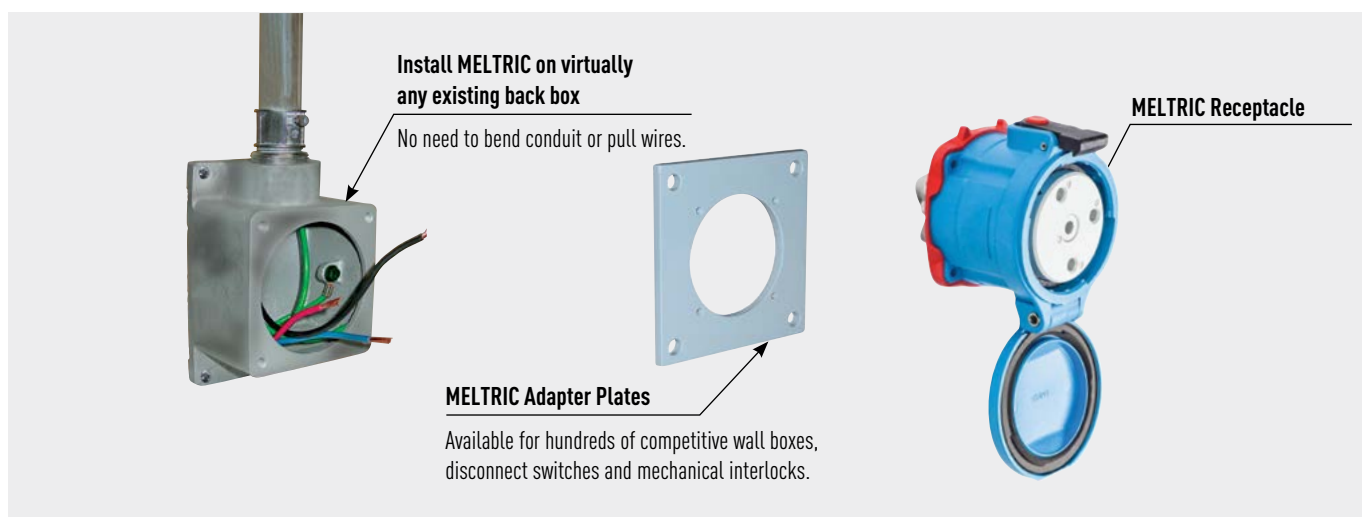


Wiring Hole (in ²) (mm ²)	Type 2 200 A	Type 3 300 A
.025 16	4-0201-A	
.047 30	4-0201-B	
.062 40	4-0201-C	
.078 50	4-0201-D	4-0301-E
.116 75		4-0301-F
.155 100		4-0301-G

Adapter Plates



Updating your facility with MELTRIC plugs and receptacles is simple and affordable with MELTRIC's adapter plates. They allow the mounting of meltric devices to existing boxes previously used for competitive devices. This avoids the cost and hassle of installing new boxes and performing associated re-piping and rewiring. If an adapter plate for the box you have is not listed, contact customer service and MELTRIC will design a new one to fit your application.



MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:		MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:	
CHARE36	DS30/DSN60 Recp/Inlet DS(N)37 Recp/Inlet	Appleton and Crouse-Hinds	Appleton Crouse-Hinds		CHARE56	DS60 Recp/Inlet DS100C Recp/Inlet	Appleton and Crouse-Hinds	Appleton Crouse-Hinds	
			AEE36	ARE36				AEE36	ARE36
			AEE46	ARE46				AEE46	ARE46
			AEE56	ARE56				AEE56	ARE56
			AERH36	ARRH36				AERH36	ARRH36
			AERH46	ARRH46				AERH46	ARRH46
			AERH56	ARRH56				AERH56	ARRH56
			AERC36	ARRC36				AERC36	ARRC36
			AERC46	ARRC46				AERC46	ARRC46
			AERC56	ARRC56				AERC56	ARRC56
			AERA36	ARD36				AERA36	ARD36
			AERA46	ARD46				AERA46	ARD46
			AERA56	ARD56				AERA56	ARD56
			AJA310	ARJ36				AJA310	ARJ36
			AJA410	ARJ46				AJA410	ARJ46
			AJA510	ARJ56				AJA510	ARJ56
			AJA610	ARJG36				AJA610	ARJG36
			AJ100	ARJG46				AJ100	ARJG46
				ARJG56					ARJG56
				AR60					AR60
				AR610					AR610
				AJ37					AJ37
				AJ47					AJ47
				AJ57					AJ57
				AJ67					AJ57

ADAPTER PLATES

MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:	
			Appleton Crouse-Hinds	
CHARE56	DS60 Recp/Inlet	Appleton and Crouse-Hinds		AJ67
	DS100C Recp/Inlet			AJA6
			Appleton Crouse-Hinds	
AJA100	DS100 Recp/Inlet	Appleton and Crouse-Hinds	AJA310	AR610
			AJA410	AJ37
			AJA510	AJ47
			AJA610	AJ57
			AJ100	AJ67
				AJC37
				AJC47
				AJC57
				AJC67
			Appleton Crouse-Hinds	
CHARE23	DS20/DSN30 Recp/Inlet		AEE13	ARE13
	DS(N)24 Recp/Inlet		AEE23	ARE23
			AEE33	ARE33
			AERH13	ARRC13
			AERH23	ARRC23
			AERH33	ARRC33
			AERC13	ARRH13
			AERC23	ARRH23
			AERC33	ARRH33
			AERA13	ARD13
			AERA23	ARD23
			AERA33	ARD33
				AR30
				ARJ13
				ARJ23
				ARJ33
				ARJG13
				ARJG23
				ARJG33
CHARE33	DS30/DSN60 Recp/Inlet	Appleton and Crouse-Hinds	AEE13	ARE13
	DS(N)37 Recp/Inlet		AEE23	ARE23
			AEE33	ARE33
			AERH13	ARRC13
			AERH23	ARRC23
			AERH33	ARRC33
			AERC13	ARRH13
			AERC23	ARRH23
			AERC33	ARRH33
			AERA13	ARD13
			AERA23	ARD23
			AERA33	ARD33
				AR30
				ARJ13
				ARJ23
				ARJ33
				ARJG13
				ARJG23
				ARJG33

MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:	
			Appleton Crouse-Hinds	
CHAJ56-MA6	514M6	Appleton and Crouse-Hinds	AJA310	AJ37
	594M6	without angle adapter	AJA410	AJ47
	594M0		AJA510	AJ57
			AJA610	AJ67
CHFADAPLT		FS/FD Single Gang Box		
	591M0			
	592M3			
	513M3			
	592M3			
	593M3			
	592M0			
	593M0			
	7X2M3			
	7X3M3			
E462	511M3	FS/FD Single Gang Box		
			RUSSELL STOLL	
DSN6JAA6	DSN60 Recp/Inlet	Russell Stoll boxes	JAA6-AB6	
			JAA6-45	
			JRAA-AB6	
			JE6	
			RUSSELL STOLL	
DSN6JAA6	DSN60 Recp/Inlet	Russell Stoll boxes	JAAB6	
			RUSSELL STOLL	
JRF60	DS60 Recp/Inlet	Russell Stoll boxes	JAA6-AB6	
	DS100C Recp/Inlet		JAA6-45	
			JRAA-AB6	
			JE6	
			JAAB6	
PNFS-DSN1-SS	PN/DSN2 Recp/Inlet	FS/FD Single Gang Box		
PNFS-DSN3-SS	DS/DSN3 Recp/Inlet	FS/FD Single Gang Box		
			HUBBELL	
HH312	594M6	Hubbell/60/100 A Boxes	26401	
	514M6		BB601W	
	594M0		BB602W	
			FW60100	
			HUBBELL	
HH312-E448	DS60 Recp/Inlet	Hubbell/60/100 A Boxes	26401	
	DS100C Recp/Inlet		BB601W	
			BB602W	
			FW60100	
			KILLARK	
HH60K	DS60 Recp/Inlet	Hubbell-Killark	AJAE	
	DS100C Recp/Inlet	Hazardous Duty Box	AJAC	
			AJAT	
MAFS6BA	594M6	FS /FD Single Gang Box		
	514M6			
	594M0			
			HUBBELL	
HHBB201W	DS1/DSN3 Recp/Inlet	Hubbell /20/30 A Boxes	BB201W	

MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:	MELTRIC Part #	MELTRIC Devices	Description	Part Numbers Adapted to:
			HUBBELL				PYLE-NATIONAL
HHBB201W	DS1/DSN3 Recp/Inlet	Hubbell /20/30 A Boxes	BB301W	PLN30	591M0	Pyle-National/60 A Boxes	JR-26046-A
			FT202W				JR-36046-A
			FT302W				JR-46046-A
			HUBBELL				JR-56046-A
HBL26401	DS30/DSN60 Recp/Inlet	Hubbell/60/100 A Boxes 60/100 A Boxes	26401		513M3		JR-56046-A
			BB601W		592M3		JR-336046-C
			BB602W		593M3		JR-446046-C
			BB1001W		592M0		JR-556046-C
HBL26401	DS30/DSN60 Recp/Inlet	Hubbell/60/100 A Boxes 60/100 A Boxes	JAA6-BB1002W		593M0		JR-26046-BB
			FW60100				JR-36046-BB
							JR-46046-BB
HBL26401A	DS3/DSN6 Angle Adapter	Hubbell/60/100 A Boxes	26401				JR-56046-BB
						JR-36046-BE	
						JR-46046-BE	
AP-CHAJA1-DS200	DS200 Receptacle	Hubbell 200 A Boxes	4200				JR-56046-BE
HHB26401	DS60 Adapters	Hubbell/60/100 A Boxes	26401				JR-46046-CE
HH50	DS30/DSN60 Recp/Inlet	Hubbell/lock/60 A adapters 60 A adapters	26402				JR-56046-CE
			26404				JR-60-F
PNFS	PN/DSN20 Recp/Inlet	FS /FD Single Gang Box					JR-64-D
PNFSPL	DS60 Recp/Inlet	Pyle-National/60 A Boxes	JR-26046-A				PYLE-NATIONAL
	DS100C Recp/Inlet	60 A Boxes	JR-36046-A	PLN60	514M6	Pyle-National/60 A Boxes	JR-26046-A
			JR-46046-A		594M6		JR-36046-A
			JR-56046-A		594M0		JR-46046-A
			JR-336046-C				JR-56046-A
			JR-446046-C				JR-336046-C
			JR-556046-C				JR-446046-C
			JR-26046-BB				JR-556046-C
			PYLE-NATIONAL				JR-26046-BB
			JR-36046-BB				JR-36046-BB
			JR-46046-BB				JR-46046-BB
			JR-56046-BB				JR-56046-BB
			JR-36046-BE				JR-36046-BE
			JR-46046-BE				JR-46046-BE
			JR-56046-BE				JR-56046-BE
			JR-46046-CE				JR-46046-CE
			JR-56046-CE				JR-56046-CE
			JR-60-J				JR-60-F
			JR-64-D				JR-64-D
			PYLE-NATIONAL	AP-RAC04X4-FS	791M3FS	4"x4" sheet metal boxes	
PNJRBB30		Pyle-National	JRW-13046-A		792M3FS		
	591M0	20/30 A Boxes	JRW-23046-A		793M3FS		
	512M3		JRW-33046-A				
	513M3		JRW-113046-C				
	592M3		JRW-223046-C				
	593M3		JRW-333046-C				
	592M0		JR-13046-BB				
	593M0		JR-23046-BB				
			JR-33046-BB				
			JR-43046-BB				
			JRW-13046-BE				
			JRW-23046-BE				
			JRW-33046-BE				
			JR-23046-CE				

Cord Grips

Aluminum Cord Grips w/Metal Mesh (optional)



Handle NPT (C)	Cable Range (B)	Part # Aluminum Cord Grip	Part # Aluminum Cord Grip w/Mesh
1/2"	.312 - .375"	CG121A	CG121AM
1/2"	.375 - .438"	CG122A	CG122AM
1/2"	.438 - .500"	CG123A	CG123AM
1/2"	.500 - .562"	CG124A	CG124AM
1/2"	.562 - .625"	CG125A	CG125AM
3/4"	.438 - .500"	CG340A	CG340AM
3/4"	.500 - .562"	CG341A	CG341AM
3/4"	.562 - .625"	CG342A	CG342AM
3/4"	.625 - .750"	CG344A	CG344AM
3/4"	.688 - .812"	CG345A	CG345AM
1"	.750 - .875"	CG1001A	CG1001AM
1"	.812 - .938"	CG1002A	CG1002AM
1"	.875 - 1.000"	CG1003A	CG1003AM
1 1/4"	.875 - 1.000"	CG1141A	CG1141AM
1 1/4"	1.000 - 1.125"	CG1142A	CG1142AM
1 1/4"	1.125 - 1.250"	CG1143A	CG1143AM
1 1/4"	1.250 - 1.375"	CG1144A*	CG1144AM*

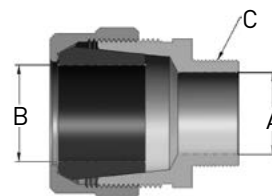
Handle NPT (C)	Cable Range (B)	Part # Aluminum Cord Grip	Part # Aluminum Cord Grip w/Mesh
1 1/2"	1.250 - 1.375"	CG1121A	CG1121AM
1 1/2"	1.438 - 1.562"	CG1122A	CG1122AM
1 1/2"	1.562 - 1.688"	CG1123A*	CG1123AM*
1 1/2"	1.688 - 1.812"	CG1124A*	CG1124AM*
2"	1.688 - 1.812"	CG2001A	CG2001AM
2"	1.812 - 1.938"	CG2002A*	CG2002AM*
2"	1.938 - 2.062"	CG2003A*	CG2003AM*
2"	2.062 - 2.188"	CG2004A*	CG2004AM*
2"	2.188 - 2.312"	CG2005A*	CG2005AM*
2"	2.312 - 2.438"	CG2006A*	CG2006AM*
2 1/2"	1.938 - 2.062"	CG2120A	CG2120AM
2 1/2"	2.062 - 2.188"	CG2121A	CG2121AM
2 1/2"	2.188 - 2.312"	CG2122A	CG2122AM
2 1/2"	2.312 - 2.438"	CG2123A*	CG2123AM*
3"	2.437 - 2.625"	CG3001A	CG3001AM
3"	2.625 - 2.812"	CG3002A	CG3002AM

Poly Cord Grips



Handle NPT (C)	Cable Range (B)	Part # Poly Cord Grip
1/2"	.350 - .520"	CG127P
3/4"	.520 - .680"	CG347P
1"	.680 - .980"	CG1006P
1 1/4"	.980 - 1.260"	CG1145P
1 1/4"	1.270 - 1.470"	CG1143P*
1 1/2"	1.260 - 1.560"	CG1125P
2"	1.190 - 1.530"	CG2001P
2"	1.520 - 1.860"	CG2002P
2"	1.850 - 2.190"	CG2003P*

i

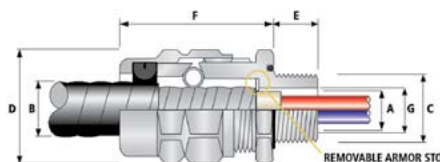


Cord Grip

Notes: * Cable may have to be stripped to pass through the bore of the cord grip body (A).

Metal Cord Grips for Hazardous Locations

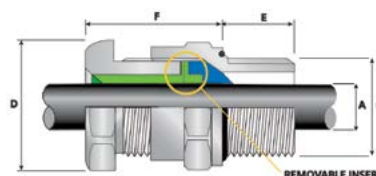
For use with Class I/II Division 2
Class 1 Zone 1
Zone 21



TMC2 Hazardous (Classified) Location Cord Grips for use with Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MCHL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL with an overall jacket of polymeric material.

Part # Cord Grip	Material	Entry Thread "C"	Minimum Thread Length "E"	Cable Armor Diameter "A"				Cable Jacket Diameter "B"		Thru Bore "G"	Across Flats "D"	Across Corners "D"	Nominal Assembly Length "F"
				Armor Stop In		Armor Stop Out							
				Min	Max	Min	Max	Min	Max				
TMC2-050NB075	Nickel Plated Brass	½"	0.78"	0.42"	0.55"	0.55"	0.63"	0.50"	0.75"	0.51"	1.20"	1.32"	2.44"
TMC2-050NB099	Nickel Plated Brass	½"	0.78"	0.60"	0.65"	0.65"	0.89"	0.69"	0.99"	0.61"	1.48"	1.63"	2.96"
TMC2-075NB118	Nickel Plated Brass	¾"	0.80"	0.79"	0.86"	0.86"	1.10"	0.87"	1.18"	0.82"	1.81"	1.99"	3.15"
TMC2-100NB137	Nickel Plated Brass	1"	0.98"	0.94"	1.08"	1.08"	1.28"	1.02"	1.37"	1.04"	2.05"	2.26"	3.55"

For use with Class I/II Division 2
Class 1 Zone 1
Zone 21

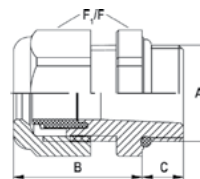


TC Hazardous (Classified) Location Cord Grips for use with all types of Unarmored Tray Cables, Extra Hard Usage Flexible Cables & Cord.

Part # Cord Grip	Material	Entry Thread "C"	Minimum Thread Length "E"	Cable Range "A"		Cable Range "A"		Across Flats "D"	Across Corners "D"	Nominal Assembly Length "F"
				Insert		No Insert				
				Min	Max	Min	Max	Max	Max	
TC-050NB028	Nickel Plated Brass	½"	0.78"	0.126"	0.276"	N/A	N/A	1.201"	1.321"	1.200"
TC-050NB055	Nickel Plated Brass	½"	0.78"	0.256"	0.406"	0.406"	0.551"	1.201"	1.323"	1.200"
TC-075NB079	Nickel Plated Brass	¾"	0.80"	0.437"	0.610"	0.610"	0.787"	1.476"	1.626"	1.200"
TC-100NB104	Nickel Plated Brass	1"	0.98"	0.669"	0.854"	0.854"	1.035"	1.811"	1.992"	1.650"

Fiber Reinforced Poly Cord Grips for Hazardous Locations

For use with Class I/II Division 2
Class 1 Zone 1
Zone 21



Part # Cord Grip	Cable Range	Thread Type & Size	Dimensions (inches)			
			Clearance Hole	Body Length	Thread Length	Wrench Flats
			"A"	"B"	"C"	"F ₁ /F"
CD13NA-BXA	.24 - .47"	½"	0.83"	1.06"	.51"	.95"
CD16NA-BXA	.39 - .55"	½"	0.83"	1.10"	.51"	1.06"
CD21NA-BXA	.51 - .71"	¾"	1.05"	1.22"	.55"	1.29"
CD21NR-BXA	.35 - .63"					
CD29NA-BXA	.71 - .98"	1"	1.35"	1.53"	.75"	1.65"
CD29NR-BXA	.51 - .79"					

VOLTAGE/PHASE ROTATION

Meter Assemblies



Handle, cord
and meter
assembly

Inlet

Voltage/Phase Rotation Meters offer customers an easy means of testing MELTRIC receptacles for voltage, as well as, motor rotation. The product consists of an inlet and handle wired to the meter.

Order Example

The plug with voltage rotation meter assembly should be ordered to match the receptacles to be tested.



Existing 63-64043
receptacle



Matching plug with
voltage phase rotation meter
assembly 63-61043-MTR

Switch-Rated Inlet and Voltage/Phase Rotation Meter Assemblies

DSN Series

Voltage	Polarity	Part #		
		DSN20	DSN30	DSN60
120V	1P+N+G	63-11165-MTR	63-31165-MTR	63-61165-MTR
120 208V	3P+N+G	63-11167-MTR	63-31167-MTR	63-61167-MTR
125V	1P+N+G	63-11075-MTR	63-31075-MTR	63-61075-MTR
125 250V	2P+N+G	63-11076-MTR	63-31076-MTR	63-61076-MTR
208V	2P+G	63-11162-MTR	63-31162-MTR	63-61162-MTR
208V	3P+G	63-11163-MTR	63-31163-MTR	63-61163-MTR
250V	2P+G	63-11072-MTR	63-31072-MTR	63-61072-MTR
250V	3P+G	63-11073-MTR	63-31073-MTR	63-61073-MTR
277V	1P+N+G	63-11045-MTR	63-31045-MTR	63-61045-MTR
277 480V	3P+N+G	63-11047-MTR	63-31047-MTR	63-61047-MTR
347 600V	3P+N+G	63-11147-MTR	63-31147-MTR	63-61147-MTR
480V	2P+G	63-11042-MTR	63-31042-MTR	63-61042-MTR
480V	3P+G	63-11043-MTR	63-31043-MTR	63-61043-MTR
600V	2P+G	63-11142-MTR	63-31142-MTR	63-61142-MTR
600V	3P+G	63-11143-MTR	63-31143-MTR	63-61143-MTR

Notes: • Only the voltage indication function will work for single phase devices. The rotation of the motor cannot be determined because only one phase is in use.
Contact customer service for price and availability of inlet and rotation meter assemblies not published here.

DS Series

Voltage	Polarity	Part #					
		DS20	DS30	DS60	DS100C	DS100	DS200
120V	1P+N+G	33-11165-MTR	33-31165-MTR	33-61165-MTR	33-61235-C-K16-MTR	33-91165-MTR	37-21165-MTR
120 208V	3P+N+G	33-11167-MTR	33-31167-MTR	33-61167-MTR	33-61237-C-K16-MTR	33-91167-MTR	37-21167-MTR
125V	1P+N+G	33-11075-MTR	33-31075-MTR	33-61075-MTR	33-61175-C-K07-MTR	33-91075-MTR	37-21075-MTR
125 250V	2P+N+G	33-11076-MTR	33-31076-MTR	33-61076-MTR	33-61176-C-K07-MTR	33-91076-MTR	37-21076-MTR
208V	2P+G	33-11162-MTR	33-31162-MTR	33-61162-MTR	33-61232-C-K16-MTR	33-91162-MTR	37-21162-MTR
208V	3P+G	33-11163-MTR	33-31163-MTR	33-61163-MTR	33-61233-C-K16-MTR	33-91163-MTR	37-21163-MTR
250V	2P+G	33-11072-MTR	33-31072-MTR	33-61072-MTR	33-61172-C-K07-MTR	33-91072-MTR	37-21072-MTR
250V	3P+G	33-11073-MTR	33-31073-MTR	33-61073-MTR	33-61173-C-K07-MTR	33-91073-MTR	37-21073-MTR
277V	1P+N+G	33-11045-MTR	33-31045-MTR	33-61045-MTR	33-61245-C-K04-MTR	33-91045-MTR	37-21045-MTR
277 480V	3P+N+G	33-11047-MTR	33-31047-MTR	33-61047-MTR	33-61247-C-K04-MTR	33-91047-MTR	37-21047-MTR
347 600V	3P+N+G	33-11147-MTR	33-31147-MTR	33-61147-MTR	33-61187-C-K14-MTR	33-91147-MTR	37-21147-MTR
480V	2P+G	33-11042-MTR	33-31042-MTR	33-61042-MTR	33-61242-C-K04-MTR	33-91042-MTR	37-21042-MTR
480V	3P+G	33-11043-MTR	33-31043-MTR	33-61043-MTR	33-61243-C-K04-MTR	33-91043-MTR	37-21043-MTR
600V	2P+G	33-11142-MTR	33-31142-MTR	33-61142-MTR	33-61182-C-K14-MTR	33-91142-MTR	37-21142-MTR
600V	3P+G	33-11143-MTR	33-31143-MTR	33-61143-MTR	33-61183-C-K14-MTR	33-91143-MTR	37-21143-MTR

Notes: • Only the voltage indication function will work for single phase devices. The rotation of the motor cannot be determined because only one phase is in use.

Contact customer service for price and availability of inlet and rotation meter assemblies not published here.

HAZARDOUS LOCATION

Plugs & Receptacles



MELTRIC offers a wide range of hazardous location devices for use in power supply and control applications. Each device features MELTRIC's butt-style contact technology that maximizes durability and performance.



DNX P. 173

POLY POWER CONNECTORS

- ATEX or cCSAus rated for Zone 1 & 21 and Class I & 2 Div 2
- Horsepower rated
- Compact design
- 20 A, 30 A and 60 A sizes



DR P. 203

POWER CONNECTORS

- cCSAus rated, Zone 2 and Class I Div 2
- Robust metal construction for 60 A and above
- 30 A, 50 A, and 250 A sizes



DXA1 P. 185

POWER CONNECTORS

- ATEX or cCSAus rated for Zone 1 & 21 and Class I & 2 Div 2
- Robust metal construction
- 20 A sizes



DSDC P. 209

POWER CONNECTORS

- cCSAus rated, Zone 2 and Class I Div 2
- Robust metal construction for 60 A and above
- 20 A, 30 A, 60 A, 100 A, and 200 A sizes



DSN/DS P. 189

POWER CONNECTORS

- cCSAus rated, Zone 2 and Class I Div 2
- Horsepower rated
- Robust metal construction for 60 A and above
- 20 A, 30 A, 60 A, 100 A, 150 A and 200 A sizes



DX P. 211

POWER CONNECTORS

- ATEX Rated for Zone 1 & 21
- Rugged metal construction
- 20 A, 32 A, 63 A, and 125 A sizes
- Up to 600V, IP65

The MELTRIC Advantage

MELTRIC offers a range of hazardous duty rated devices for use in power supply and control applications. Each device features MELTRIC's butt-style contact technology that maximizes durability and performance. Depending on application needs, most devices can be configured for use in in-line and wall mounted applications.

Common industry applications:

- ▶ Chemical plants
- ▶ Pharmaceutical plants
- ▶ Oil and Gas facilities
- ▶ Grain silos
- ▶ Wood processing plants
- ▶ Plastics plants
- ▶ Wastewater plants



"Flush Mounted" DX Series
plug and receptacle



"Inline" DXN Series plug
and connector

Explanation of Area Classifications and Relevant Listings

The hazardous location area classifications and ratings used in most of North America differ from those used in most of the rest of the world. The North American approach has historically been to use a Class and Division system to identify the different levels of explosion hazards, while the international approach is based on Zones. In recent years, there has been recognition of the Zone classifications in the NEC and CEC, but the vast majority of the area classifications in North America continue to be based on the Class and Division system. The table below shows the relationship between the Class/Division and Zone based classification systems.

Gas

Explosive atmosphere	Continuously present	May occur in normal conditions	May appear accidentally or in abnormal conditions
Class & Division	Class I, Division 1		Class I, Division 2
Zone	Zone 0	Zone 1	Zone 2

Dust

Explosive atmosphere	Continuously present	May occur in normal conditions	May appear accidentally or in abnormal conditions
Class & Division	Class II, Division 1		Class II, Division 2
Zone	Zone 20	Zone 21	Zone 22

MELTRIC offers hazardous locations products rated for use in Zone 1, Zone 2, Zone 21, Zone 22, Class I Division 2 and Class 2 Division 2 areas as shown by the yellow highlighted cells in the table above. The area classifications, ratings and certifications that apply to each of the various products is shown in the following product specification table.

Selecting the Right Hazardous Location Rated Plug and Receptacle

Hazardous Duty Product Specifications

Zone 1/21 & 2/22, Class I & II Division 2 Devices												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DXN20	Poly	3P+N+G	600	20	YES	5	cCSAus	IP66/IP67	16 AWG	10 AWG	Screw	177
DXN30	Poly	3P+N+G + 2 aux	550	30	YES	15	cCSAus	IP66/IP67	14 AWG	6 AWG	Screw	179
DXN30	Poly	3P+N+G	600	30	YES	15	cCSAus	IP66/IP67	14 AWG	6 AWG	Screw	179
DXN60	Poly	3P+N+G	600	60	YES	20	cCSAus	IP66/IP67	10 AWG	4 AWG	Screw	181
DXN60	Poly	3P+N+G + 2 aux	550	60	YES	20	cCSAus	IP66/IP67	10 AWG	4 AWG	Screw	181
DXA1	Metal	3P+N+G	600	20	YES	5	cCSAus	IP66/IP67	16 AWG	10 AWG	Screw	187
SPeX	Poly	1P	1000	680	NO	-	cCSAus	IP65/IP66	2/0 AWG	750 MCM	Lug	229
Zone 2, Class I Division 2 Devices												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DS20	Poly	3P+N+G + 2 aux	600	20	NO	10	cCSAus	Type 4X	14 AWG	8 AWG	Screw	191
DS30	Poly	3P+N+G + 4 aux	600	30	NO	15	cCSAus	Type 4X	14 AWG	4 AWG	Screw	193
DS60	Metal	3P+N+G + 4 aux	600	60	NO	25	cCSAus	Type 4X	10 AWG	2 AWG	Screw	195
DS100C	Metal or Poly	3P+N+G + 4 aux	600	100	NO	50	cCSAus	Type 4X	10 AWG	2 AWG	Screw	197
DSN150	Metal	3P+N+G + 6 aux	600	150	NO	75	cCSAus	Type 4X	4 AWG	2/0 AWG	Screw	199
DS200	Metal	3P+N+G + 2 aux	600	200	NO	100	cCSAus	Type 4X	4 AWG	4/0 AWG	Screw	201
DR30	Poly	3P+N+G + 2 aux	600	30	NO	-	cCSAus	Type 4X	14 AWG	8 AWG	Screw	203
DR50	Poly	3P+N+G + 4 aux	600	50	NO	-	cCSAus	Type 4X	14 AWG	4 AWG	Screw	205
DR250	Metal	3P+N+G + 2 aux	600	250	NO	-	cCSAus	Type 4X	4 AWG	4/0 AWG	Screw	207
Zone 2, Class I Division 2 Devices for Direct Current												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VDC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DSDC1	Poly	2P+G	250	20	NO	-	cCSAus	Type 4X	14 AWG	8 AWG	Screw	209
DSDC3	Poly	2P+G	250	30	NO	-	cCSAus	Type 4X	14 AWG	4 AWG	Screw	209
DSDC6	Metal or Poly	2P+G	250	60	NO	-	cCSAus	Type 4X	10 AWG	2 AWG	Screw	209
DSDC9	Metal	2P+G	250	100	NO	-	cCSAus	Type 4X	4 AWG	2/0 AWG	Screw	209
DSDC2	Metal	2P+G	250	200	NO	-	cCSAus	Type 4X	4 AWG	4/0 AWG	Screw	209
International Configurations & Ratings												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DXN1	Poly	3P+N+G	550	20	YES	-	ATEX, IECEx	IP66/IP67	16 AWG	10 AWG	Screw	177
DXN3	Poly	3P+N+G	750	32	YES	-	ATEX, IECEx	IP66/IP67	14 AWG	6 AWG	Screw	179
DXN3	Poly	3P+N+G + 2 aux	550	32	YES	-	ATEX, IECEx	IP66/IP67	14 AWG	6 AWG	Screw	179
DXN6	Poly	3P+N+G	750	63	YES	-	ATEX, IECEx	IP66/IP67	10 AWG	4 AWG	Screw	181
DXN6	Poly	3P+N+G + 2 aux	550	63	YES	-	ATEX, IECEx	IP66/IP67	10 AWG	4 AWG	Screw	181
DXA1	Metal	3P+N+G	600	20	YES	-	ATEX, IECEx	IP66/IP67	16 AWG	10 AWG	Screw	187
DX1	Aluminum	3P+N+G	750	20	YES	-	ATEX, IECEx	IP65	14 AWG	8 AWG	Screw	215
DX3	Aluminum	3P+N+G	750	32	YES	-	ATEX, IECEx	IP65	14 AWG	8 AWG	Screw	216
DX6	Aluminum	3P+N+G	750	63	YES	-	ATEX, IECEx	IP65/IP66	6 AWG	1/0 AWG	Screw	217
DX9	Aluminum	3P+N+G	750	125	YES	-	ATEX, IECEx	IP65/IP66	2 AWG	2/0 AWG	Screw	218
PXN12c	Metal	11P+G	220	10	NO	-	ATEX, IECEx	IP65/IP66	16 AWG	14 AWG	Solder/Crimp	224
DXN25c	Metal	24P+G	440	10	NO	-	ATEX, IECEx	IP66/IP67	16 AWG	14 AWG	Solder/Crimp	226
DXN37c	Metal	36P+G	220	10	NO	-	ATEX, IECEx	IP66/IP67	16 AWG	14 AWG	Solder/Crimp	226
SPeX	Poly	1P	1000	680	NO	-	ATEX, IECEx	IP65/IP66	2/0 AWG	750 MCM	Lug	229

DXN

Hazardous Location Plug and Receptacle



Main Advantages

- ▶ Easy to handle due to compact, lightweight design
- ▶ Available in in-line and wall/panel mounted configurations
- ▶ CSA, ATEX and IECEx certified for use in Zones 1 and 2 (gas) and Zones 21 and 22 (dust)



Watch the DXN
video and other
product videos at
meltric.com/video

- | | | | |
|----------------------------|--------|--------------|--------|
| ▶ Features & Ratings | p. 174 | ▶ DXN30 | p. 179 |
| ▶ Certifications & Testing | p. 175 | ▶ DXN60 | p. 181 |
| ▶ Operation | p. 176 | ▶ Dimensions | p. 183 |
| ▶ DXN20 | p. 177 | | |

PRODUCT FEATURES



Pushbutton Pawl/OFF Button

Provides quick, safe and easy current interruption.

Silver-Nickel Contacts

Silver-nickel contact material provides superior conductivity, durability and corrosion resistance.

Hazardous Location Termination Areas

Includes enhanced creepage and clearance distances and specially designed terminals to ensure perfect and permanent clamping.

Casing

Self-extinguishing, non-static, material provides outstanding resistance to mechanical abuse and chemicals.

Lid

When closed, the lid maintains IP66/IP67 protection for the receptacle after removal of the plug.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Arc Isolation Chamber

Minimizes gas/dust volume present during arcing, withstands internal pressure due to ignition of it and isolates the ignition from the outside environment.

Arc-Extinguishing Flame Path

Dissipates internal pressure created during arcing while also preventing any associated ignition sources from reaching the surrounding atmosphere.

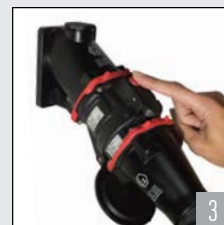
Operating Instructions



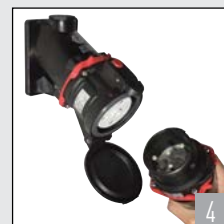
To connect, align the red dots, push the plug partially in, then turn clockwise slightly to line up the latch with the catch.



Push the plug fully home until it is held in place by the latch. The circuit is now closed.



To disconnect, depress the latch and pull the plug simultaneously. This breaks the circuit. The plug contacts are now dead.



Rotate 30° counterclockwise and then withdraw the plug. The safety shutter prevents access to live parts.

General Ratings

Amperage	20 to 60 A
Voltage	600 VAC
Frequency	50-400 Hz
Horsepower	1/2 to 20 hp
Environmental	IP66/IP67
Temperature	min -40°F/max 140°F

* DXN30 and DXN60 devices are 550VAC if ordered with optional auxiliary contacts.

Hazardous Location Listings (CSA or ATEX)

CSA 	ATEX 
Ex de IIC T*Gb	II 2 G/D
Ex tb IIIC T*Db	Ex de IIC T*Gb
	Ex tb IIIC T*Db
Class I Zone I AEx de IIC T*Gb	
Zone 21 AEx tD T*Db	
Class I Division 2 Gr A,B,C,D	
Class II Division 2 Gr E,F,G	

* See temperature tables in product sections.
See following page for additional ratings detail.

Plug & Receptacle Listings (CSA or ATEX)

Category	CSA	IEC
Plugs and Receptacles	C22.2 No. 182.1	60309-1

CE ratings available upon request.

Highlighted Feature

Dead Front



The dead front on the DXN receptacle provides protection from accidental tool and wire insertion.

HAZARDOUS
LOCATION

DXN Certifications

Hazardous Duty Certification (example)

DXN's are offered with CSA or ATEX certifications for use in hazardous locations.

CSA

$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Class I Zone 1 AEx de IIC T5, Gb

Zone 21, AEx tD T90°C Db

Class I Division 2 Gr A,B,C,D

Class I – Indicates suitability for use in applications where flammable Gases, Vapors, or Mists may be present.

Zone I – Indicates suitability for use in applications where an explosive environment is likely to occur in the air in sufficient quantities to produce explosive or ignitable mixtures under normal operating conditions.

Division 2 – Indicates suitability for use where exposure to the hazard occurs under abnormal conditions.

GR A,B,C,D – Indicates suitability for use in areas that may contain Acetylene, Hydrogen, Ethylene, or Propane.

Class II Division 2 Gr E,F,G

Class II – Indicates suitability for use in applications where explosive dust atmosphere may occur.

Division 2 – Indicates suitability for use where hazard exposure occurs under abnormal conditions.

GR E,F,G – Indicates suitability for use in areas where Magnesium, Coal or Grain dust may occur.



CSA certification based on IEC 60079-0, 60079-1, 60079-7

ATEX and IECEx

II 2 G/D Ex de IIC T* Gb

Ex tb IIIC T* Db

$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ T5 T90°C

$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ T6 T70°C



II – Indicates suitability for installation in surface applications (as opposed to underground mine applications).

2 – Indicates suitability for use where a high level of protection is required and where the presence of an explosive atmosphere is likely to occur occasionally during normal operation (Zone 1 and Zone 21 environments).

G/D – Indicates suitability for installation in areas that may contain flammable gases, vapors/mists, or dusts.

T90°C* – Indicates a maximum surface temperature of the product of 90°C, at -40°C to 60°C ambient.

Ex de – Indicates that explosion protection is provided with (e) increased safety in the conductor termination area, and (d) flame proof chambers for making and breaking the current that can withstand the pressure of internal ignition and that prevent arcs, flame or other ignition events from being communicated to the surrounding atmosphere.

IIC – Indicates suitability for installation in areas where exposure to any type of gas, including the most dangerous subdivision C gases may occur.

T6* – Temperature class – the maximum product surface temperature is 185°F (85°C) for ambient temperature of 104°F (40°).

ATEX certification was performed by LCIE.

* Temperature ratings vary depending on product and ambient temperature. See specific product section for temperature ratings.

Electrical Performance Testing

Model	Key Performance Tests Passed				Dielectric Test
	Mechanical Endurance	Electrical Endurance ¹	Overload Testing ²	Temperature Rise (max)	
DXN20	-	5000 Operations	50 Operations	30°C	2 x V (rated) + 1000V
DXN30	1000 Cycles	1000 Operations	50 Operations	30°C	2 x V (rated) + 1000V
DXN60	1000 Cycles	1000 Operations	50 Operations	30°C	2 x V (rated) + 1000V

¹ @ 100% of rated current and voltage and 0.6 power factor

² @125% of rated current, 110% of rated voltage, & 0.6 power factor

DXN Operation

Arcing is a natural occurrence when electrical contacts make and break under load. The purpose of a hazardous duty product is to prevent arcing from igniting hazardous gases or dusts present in the atmosphere into an explosion that may cause personal injury or damage to facilities and equipment. The DXN accomplishes this with specially designed flame-proof arc chambers.

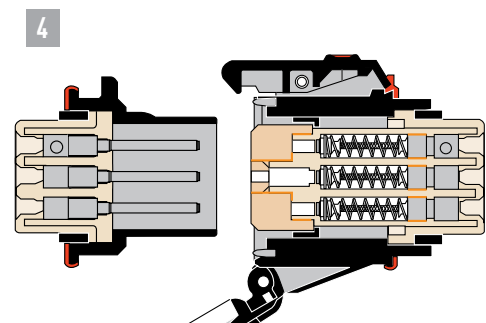
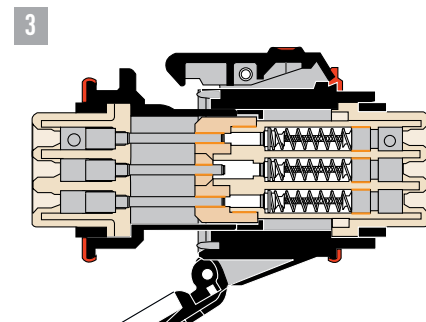
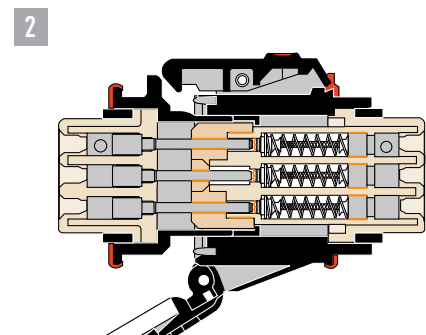
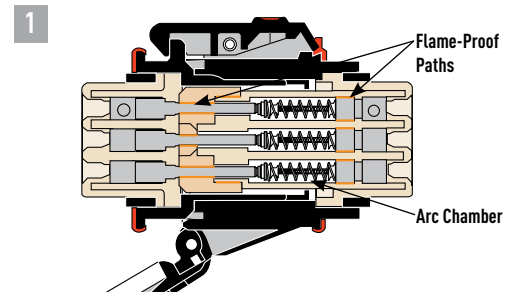
The arc chambers are sized to minimize the amount of atmospheric gas or air/dust mixture that may ignite during arcing and are built to contain this internal mini-explosion and withstand the pressure that it generates. The length and width of the flame-proof pathways are very precisely designed to provide for the effective dissipation of the pressure, while also ensuring that the arcing and internal ignitions of gases or air/dust mixture in the arc chamber are totally isolated from the surrounding atmosphere.

1 When the plug and receptacle are connected, the flameproof arc chamber is completed with pressure relief/arc extinguishing pathways between the outer diameter of the plug contact and its associated contact hole in the safety shutter and between the main interior component and receptacle contact base.

2 DXN's are current interrupting rated devices. They can safely make and break under full load and also during moderate overload situations. During the making or breaking of the contacts, the arc chamber completely contains any ignitions of gas or dust due to arcing and the flame-proof pathways dissipate the pressure.

3 As the plug is being inserted or removed, the flame-proof arc chamber and pathways are maintained. This ensures continuous hazardous duty protection and the safety of the user.

4 When the plug and receptacle are disconnected, the receptacle maintains a flame-proof chamber. In this case, the flame-proof pathway exists between the safety shutter and the main interior component. The shutter also prevents access to live parts, providing users with the safety of a dead front. The plug must be inserted into the safety shutter and be rotated in order to access the receptacle contacts.



DXN20 Hazardous Location Plugs & Receptacles – 20 A

Devices rated for hazardous locations are not returnable.

cCSAus Certifications DXN20

- **Max Amperage & Voltage**
20 A, 600 VAC, 60 Hz
- **Current Interruption Capability**
For current interrupting (AC)
- **Horsepower Ratings**

120V	1Ø	0.5 hp
240V	3Ø	2 hp
480V	3Ø	5 hp
600V	3Ø	5 hp
- **Short Circuit Rating**
25kA Close & Withstand
Testing was performed with RK1 30 A fuse sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
Note: Consult NEC for Short Circuit limits.
- **Environmental Ratings**
IP66/IP67
- **Wiring Capacity**
Min 16 AWG Max 10 AWG
* Based on THHN wire sizes
- **Applicable Standards**
CSA C22.2 No. 182.1
- **Hazardous Location Ratings**

-40°C ≤ Ta ≤ +60°C
Ex de IIC T5 Gb Ex tb IIIC T90°C Db
Class I Zone1 AEx de IIC T5 Gb
Zone 21 AEx td T90°C Db
Class I Div 2 Gr A,B,C,D
Class II Div 2 Gr E,F,G
cCSAus 00.1144106X

Receptacle (female)



Standard DXN20 lid opens to 120°

Inlet (male)



! Receptacles & Inlets must be mounted to a DXN handle, angle or wall box

North American cCSAus Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	22-14165	22-18165
125V	1P+N+G	22-14075	22-18075
208V	2P+G	22-14162	22-18162
208V	3P+G	22-14163	22-18163
208V	3P+N+G	22-14167	22-18167
250V	2P+G	22-14072	22-18072
250V	3P+G	22-14073	22-18073
250V	2P+N+G	22-14076	22-18076
277V	1P+N+G	22-14045	22-18045
480V	2P+G	22-14042	22-18042
480V	3P+G	22-14043	22-18043
480V	3P+N+G	22-14047	22-18047
600V	2P+G	22-14142	22-18142
600V	3P+G	22-14143	22-18143
600V	3P+N+G	22-14147	22-18147

Receptacle Options	Suffix #	Inlet Options	Suffix #
Padlock Pawl	Recept # - 843	With No Lockout Hole	Inlet # - A155
Metal Pawl on Poly Receptacle	Recept # - 924		
Closed Lid Configuration	Recept # - R		
180° Lid Opening	Recept # - 180		

ATEX/IECEX Certifications DXN1

- **Max Amperage & Voltage**
20 A, 550 VAC, 50 Hz
- **Environmental** IP66/IP67
- **Ambient Temp** -40°C to +60°C
- **Hazardous Location Ratings**
ATEX/IECEX Zones 1 & 2, 21 & 22

MARECHAL ELECTRIC MAROMME
Ex de IIC T5 Gb Ex tb IIIC T90°C Db
Ex de IIC T5 Gb Ex tb IIIC T90°C Db
-40 °C ≤ Ta ≤ +60 °C T5 T90 °C
-40 °C ≤ Ta ≤ +40 °C T6 T70 °C
IECEX LCI 09.0005X / LCI 99 ATEX 6027X

See MELTRIC's International Catalog (online) for additional product information.

Receptacle

Inlet

IEC/CE Configurations (ATEX/IECEX)

Voltage	Polarity	Part # Poly	Part # Poly
20 - 24 V	2P	25-1408A	25-1808A
190 - 230 V	3P+E	25-14033	25-18033
220 - 250 V	1P+N+E	25-14015	25-18015
380 - 440 V	3P+E	25-14013	25-18013
380 - 440 V	3P+N+E	25-14017	25-18017
480 - 500 V	3P+E	25-14093	25-18093
480 - 500 V	3P+N+E	25-14097	25-18097

Receptacle Options	Suffix #	Receptacle Options	Suffix #
Padlock Pawl w/shaft for 2 locks	Recept # + 843	Self-returning Lid	Recept # + R
180° Lid Opening	Recept # + 10	180° Opening & Self-returning Lid	Recept # + 18

INSTALLATION ACCESSORIES – SIZE 1

Accessories rated for hazardous locations are not returnable.

HANDLES

POLY HANDLE w/NPT		Part #	
	1/2"	22-1A013-12	For use in Class I or II Division 2 or Class 1 Zone 1 or Zone 21 depending on fitting used. Fitting manufactured by others.
	3/4"	22-1A013-34	

POLY HANDLE w/CORD GRIP w/Cable Range			
	.24 - .47"	251P0BPA	For use in Class I or II Division 2, Class I Zone 1 or Zone 21
	.39 - .55"	251P0BPB	
	.35 - .63"	251P0CPD	
	.51 - .71"	251P0CPC	
			-20°C ≤ Ta ≤ +85°C

ANGLES

POLY ANGLE		
	30°	22-1A057

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-1A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	22-1A426	For Inlets/Plugs Only.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

BOXES

POLY WALL BOX w/NPT		Part #	
	30°	1/2"	22-1A023-12-T NPT Thread on top
	30°	3/4"	22-1A023-34-T * Interior volume with receptacle installed.
			* 4.5 in ³

POLY WALL BOX w/NPT			
	30°	1/2"	22-1A023-12-B NPT Thread on bottom
	30°	3/4"	22-1A023-34-B * Interior volume with receptacle installed.
			* 4.5 in ³ NPT

POLY ANGLE WITH METAL BOX w/NPT w/o TERMINAL BLOCKS				
	70°	1/2"	221C7N05	NPT is drilled on top of metal box as standard. For NPT on side only, add an "L" suffix. To switch from top to bottom or left to right the box can be rotated.
	70°	3/4"	221C7N07	
	70°	1"	221C7N10	
	70°	1 1/4"	221C7N12	
	70°	1 1/2"	221C7N15	
* 74.6 in ³				

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

* Interior volume with receptacle installed.

POLY WALL BOX 120x120 w/o TERMINAL BLOCKS w/CORD GRIP					
	70°	1/2"	.20 - .35"	221C7BPJ	For use in Class I or II Division 2, Class I Zone I or Zone 21
	70°	1/2"	.24 - .47"	221C7BPA	
	70°	1/2"	.39 - .55"	221C7BPB	
	70°	3/4"	.35 - .63"	221C7CPD	1 hole with a poly cable gland.
	70°	3/4"	.51 - .71"	221C7CPC	
	70°	1"	.51 - .79"	221C7DPF	
	70°	1"	.71 - .98"	221C7DPE	
* 82.0 in ³					

HANDLES

POLY HANDLE w/POLY Cable Gland		Part #	
	5 - 10 mm	25-1A253-16P	For use in Zones 1 & 2 Zones 21 & 22
	12 - 18 mm	25-1A253-25P	
	16 - 25 mm	25-1A253-32P	

POLY HANDLE w/METAL Cable Gland			
	8 - 10 mm	25-1A253-20M	With Earth continuity
	12 - 14 mm	25-1A253-25M	
	18 - 24 mm	25-1A253-32M	

ANGLES

POLY ANGLE		
	30°	25-1A057

POLY ANGLE		
	70°	25-1A757
		For panel mounting. Not a replacement part for 70° wall box.

BOXES

POLY WALL BOX		Part #
	30°	5 - 10 mm 25-1AB53-16P
	30°	10 - 14 mm 25-1AB53
	30°	12 - 18 mm 25-1AB53-25P

POLY WALL BOX 120x120 w/o TERMINAL BLOCKS				
	70°	10 - 14 mm	25-1AB88-20P	1 hole with a poly cable gland.
	70°	12 - 18 mm	25-1AB88-25P	
	70°	16 - 25 mm	25-1AB88-32P	

POLY WALL BOX 120x120 w/4mm ² TERMINAL BLOCKS				
	70°	10 - 14 mm	25-1A088-20P	With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8+2E 4 mm ² terminals blocks + 2.5 mm ² wires, wiring 1-4 mm ² . For loop in loop out wiring. -40°C ≤ Ta ≤ +60°C T5 T90°C -40°C ≤ Ta ≤ +40°C T6 T70°C
	70°	12 - 18 mm	25-1A088-25P	

HAZARDOUS
LOCATION

DXN30 Hazardous Location Plugs & Receptacles – 30 A

Devices rated for hazardous locations are not returnable.

cSAus Certifications DXN30

- Max Amperage & Voltage**
30 A, 600 VAC, 60 Hz
- Current Interruption Capability**
For current interrupting (AC)
- Horsepower Ratings**

120V	1Ø	1 hp
240V	3Ø	5 hp
480V	3Ø	10 hp
600V	3Ø	15 hp
- Short Circuit Rating**
25kA Close & Withstand
Testing was performed with RK1 70 A fuse sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
Note: Consult NEC for Short Circuit limits.
- Environmental Ratings**
IP66/IP67
- Wiring Capacity**
Min 14 AWG Max 6 AWG
Aux Contacts - Max 10 AWG
* Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1
- Hazardous Location Ratings**

-40°C ≤ T_a ≤ +60°C
Ex de IIC T5 Gb Ex tb IIIC T77°C Db
Class I Zone 1 AEx de IIC T5 Gb
Zone 21 AEx td T77°C Db
Class I Div 2 Gr A,B,C,D
Class II Div 2 Gr E,F,G
cSAus 00.1144106X

Receptacle (female)



Standard DXN30 lid opens to 120°

Inlet (male)



! Receptacles & Inlets must be mounted to a DXN handle, angle or wall box

North American cSAus Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	22-34165	22-38165
125V	1P+N+G	22-34075	22-38075
208V	2P+G	22-34162	22-38162
208V	3P+G	22-34163	22-38163
208V	3P+N+G	22-34167	22-38167
250V	2P+G	22-34072	22-38072
250V	3P+G	22-34073	22-38073
250V	2P+N+G	22-34076	22-38076
277V	1P+N+G	22-34045	22-38045
480V	2P+G	22-34042	22-38042
480V	3P+G	22-34043	22-38043
480V	3P+N+G	22-34047	22-38047
600V	2P+G	22-34142	22-38142
600V	3P+G	22-34143	22-38143
600V	3P+N+G	22-34147	22-38147

Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts*	Recept # - 972	With 2 Auxiliary/Pilot Contacts*	Inlet # - 972
Padlock Pawl	Recept # - 843	With No Lockout Hole	Inlet # - A155
Metal Pawl on Poly Receptacle	Recept # - 924	* Not available with 600V devices, use -972-S74 for 550 VAC.	
Closed Lid Configuration	Recept # - R		
180° Lid Opening	Recept # - 180		

ATEX/IECEx Certifications DXN3

- Max Amperage & Voltage**
32 A, 750 VAC, 50 Hz
- Environmental** IP66/IP67
- Ambient Temp** -40°C to +60°C
- Hazardous Location Ratings**
ATEX/IECEx Zones 1 & 2, 21 & 22

MARECHAL ELECTRIC MAROMME
Ex de IIC T*Gb
Ex tb IIIC T*Db
-40 °C ≤ T_a ≤ +60 °C T5 T77 °C
-40 °C ≤ T_a ≤ +40 °C T6 T57 °C
IECEx LC1 09.0006X / LCIE 05 ATEX 6149

See MELTRIC's International Catalog (online) for additional product information.

Receptacle

Inlet

IEC/CE Configurations (ATEX/IECEx)

Voltage	Polarity	Part # Poly	Part # Poly
20 - 24 V	2P	25-3408A	25-3808A
190 - 230 V	3P+E	25-34033	25-38033
220 - 250 V	1P+N+E	25-34015	25-38015
380 - 440 V	3P+E	25-34013	25-38013
380 - 440 V	3P+N+E	25-34017	25-38017
480 - 500 V	3P+E	25-34093	25-38093
480 - 500 V	3P+N+E	25-34097	25-38097

Receptacle Options	Suffix #	Receptacle Options	Suffix #
Padlock Pawl w/shaft for 2 locks	Recept # + 843	Self-returning Lid	Recept # + R
180° Lid Opening	Recept # + 10	180° Opening & Self-returning Lid	Recept # + 18
With 2 Auxiliary/Pilot Contacts*	Recept # + 972 Inlet # + 972		

INSTALLATION ACCESSORIES – SIZE 2

Accessories rated for hazardous locations are not returnable.

HANDLES

POLY HANDLE w/NPT		Part #	
	3/4"	22-3A013-34	For use in Class I or II Division 2 or Class 1 Zone 1 or Zone 21 depending on fitting used. Fitting manufactured by others.
	1"	22-3A013-1	

POLY HANDLE w/CORD GRIP w/Cable Range			
	.35 - .63"	252P0CPD	For use in Class I or II Division 2, Class I Zone 1 or Zone 21.
	.51 - .71"	252P0CPC	
	.51 - .79"	252P0DPF	
	.71 - .98"	252P0DPE	

-20°C ≤ Ta ≤ +85°C

ANGLES

POLY ANGLE		
	30°	22-3A027

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-3A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	22-3A426	For Inlets/Plugs Only.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

BOXES

POLY WALL BOX w/NPT		Part #	
	30°	3/4"	22-3A023-34-T
			NPT Thread on top.

* Interior volume with receptacle installed.

POLY WALL BOX w/NPT		Part #	
	30°	3/4"	22-3A023-34-B
			NPT Thread on bottom

* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT w/o TERMINAL BLOCKS			
	70°	1/2"	222C7N05
	70°	3/4"	222C7N07
	70°	1"	222C7N10
	70°	1 1/4"	222C7N12
	70°	1 1/2"	222C7N15

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

* Interior volume with receptacle installed.

POLY WALL BOX 120x120 w/o TERMINAL BLOCKS w/CORD GRIP					
 * 82.0 in ³	70°	1/2"	.20 - .35"	222C7BPJ	For use in Class I or II Division 2, Class I Zone I or Zone 21
	70°	1/2"	.24 - .47"	222C7BPA	
	70°	1/2"	.39 - .55"	222C7BPB	
	70°	3/4"	.35 - .63"	222C7CPD	
	70°	3/4"	.51 - .71"	222C7CPC	1 hole with a poly cable gland.
	70°	1"	.51 - .79"	222C7DPF	
	70°	1"	.71 - .98"	222C7DPE	

* 82.0 in³

HANDLES

POLY HANDLE w/POLY Cable Gland		Part #	
	10 - 14 mm	25-3A753	For use in Zones 1 & 2 Zones 21 & 22
	12 - 18 mm	25-3A783	
	16 - 25 mm	25-3A253-32P	
	22 - 32 mm	25-3A253-40P	

POLY HANDLE w/METAL Cable Gland			
	8 - 10 mm	25-3A253-20M	With Earth continuity
	12 - 14 mm	25-3A253-25M	
	18 - 24 mm	25-3A253-32M	

ANGLES

POLY ANGLE		
	30°	25-3A027

POLY ANGLE		
	70°	25-3A757

For panel mounting. Not a replacement part for 70° wall box.

BOXES

POLY WALL BOX		Part #
	30°	10 - 14 mm 25-3AB53
	30°	12 - 18 mm 25-3AB53-25P

POLY WALL BOX 120x120 w/o TERMINAL BLOCKS			
	70°	10 - 14 mm	25-3AB88-20P
	70°	12 - 18 mm	25-3AB88-25P
	70°	16 - 25 mm	25-3AB88-32P

1 hole with a poly cable gland.

POLY WALL BOX 120x120 w/10mm ² TERMINAL BLOCKS			
	70°	10 - 14 mm	25-3A088-20P
	70°	12 - 18 mm	25-3A088-25P

With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8+2E 10 mm² terminals blocks + 6 mm² wires, wiring 2.5 - 10 mm². For loop in loop out wiring.
-40°C ≤ Ta ≤ +60°C T5 T77°C
-40°C ≤ Ta ≤ +40°C T6 T57°C

HAZARDOUS
LOCATION

DXN60 Hazardous Location Plugs & Receptacles – 60 A

Devices rated for hazardous locations are not returnable.

cSAus Certifications DXN60

- Max Amperage & Voltage**
60 A, 600 VAC, 60 Hz
- Current Interruption Capability**
For current interrupting (AC)
- Horsepower Ratings**

120V	1Ø	2 hp
240V	3Ø	7.5 hp
480V	3Ø	20 hp
600V	3Ø	20 hp
- Short Circuit Rating**
25kA Close & Withstand
Testing was performed with RK1 100 A fuse sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
Note: Consult NEC for Short Circuit limits.
- Environmental Ratings**
IP66/IP67
- Wiring Capacity**
Min 10 AWG Max 4 AWG
Aux Contacts - Max 10 AWG
* Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1
- Hazardous Location Ratings**

-40°C ≤ T_a ≤ +60°C
Ex de IIC T4 Gb Ex tb IIIC T100°C Db
Class I Zone 1 AEx de IIC T4 Gb
Zone 21 AEx td T100°C Db
Class I Div 2 Gr A,B,C,D
Class II Div 2 Gr E,F,G
cSAus 00.1144106X

Receptacle (female)



Standard DXN60 lid opens to 120°

Inlet (male)



! Receptacles & Inlets must be mounted to a DXN handle, angle or wall box

North American cSAus Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	22-64165	22-68165
125V	1P+N+G	22-64075	22-68075
208V	2P+G	22-64162	22-68162
208V	3P+G	22-64163	22-68163
208V	3P+N+G	22-64167	22-68167
250V	2P+G	22-64072	22-68072
250V	3P+G	22-64073	22-68073
250V	2P+N+G	22-64076	22-68076
277V	1P+N+G	22-64045	22-68045
480V	2P+G	22-64042	22-68042
480V	3P+G	22-64043	22-68043
480V	3P+N+G	22-64047	22-68047
600V	2P+G	22-64142	22-68142
600V	3P+G	22-64143	22-68143
600V	3P+N+G	22-64147	22-68147

Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts*	Recept # - 972	With 2 Auxiliary/Pilot Contacts*	Inlet # - 972
Padlock Pawl	Recept # - 843	With No Lockout Hole	Inlet # - A155
Metal Pawl on Poly Receptacle	Recept # - 924	* Not available with 600V devices, use -972-S74 for 550 VAC	
Closed Lid Configuration	Recept # - R		
180° Lid Opening	Recept # - 180		

ATEX/IECEX Certifications DXN6

- Max Amperage & Voltage**
63 A, 750 VAC, 50 Hz
- Environmental** IP66/IP67
- Ambient Temp** -40°C to +60°C
- Hazardous Location Ratings**
ATEX/IECEX Zones 1 & 2, 21 & 22

MARECHAL ELECTRIC MAROMME
Ex de IIC T*Gb
Ex tb IIIC T*Db
-40 °C ≤ T_a ≤ +60 °C T4 T107 °C
-40 °C ≤ T_a ≤ +40 °C T5 T87 °C
IECEX LCI 09.0007 / LCI 05 ATEX 6150

See MELTRIC's International Catalog (online) for additional product information.

Receptacle

Inlet

IEC/CE Configurations (ATEX/IECEX)

Voltage	Polarity	Part # Poly	Part # Poly
20 - 24 V	2P	25-6408A	25-6808A
190 - 230 V	3P+E	25-64033	25-68033
220 - 250 V	1P+N+E	25-64015	25-68015
380 - 440 V	3P+E	25-64013	25-68013
380 - 440 V	3P+N+E	25-64017	25-68017
480 - 500 V	3P+E	25-64093	25-68093
480 - 500 V	3P+N+E	25-64097	25-68097

Receptacle Options	Suffix #	Receptacle Options	Suffix #
Padlock Pawl w/shaft for 2 locks	Recept # + 843	Self-returning Lid	Recept # + R
180° Lid Opening	Recept # + 10	180° Opening & Self-returning Lid	Recept # + 18
With 2 Auxiliary/Pilot Contacts*	Recept # + 972	Inlet # + 972	

INSTALLATION ACCESSORIES – SIZE 3

Accessories rated for hazardous locations are not returnable.

HANDLES

POLY HANDLE w/NPT		Part #	
	1"	22-6A013-1	For use in Class I or II Division 2 or Class 1 Zone 1 or Zone 21 depending on fitting used. Fitting manufactured by others.

POLY HANDLE w/CORD GRIP w/Cable Range			
	.51 - .79"	253P0DPF	For use in Class I or II Division 2, Class I Zone I or Zone 21.
	.71 - .98"	253P0DPE	
			-20°C ≤ Ta ≤ +85°C

ANGLES

POLY ANGLE			
	30°	22-6A027	

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES			
	61-6A346	Set of Two (2)	Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP			
	22-6A426	For Inlets/Plugs Only.	

RECEPTACLE LOCKING PIN			
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.	

BOXES

POLY WALL BOX w/NPT		Part #	
	30° 1"	22-6A023-1-T	NPT Thread on top. * Interior volume with receptacle installed.

POLY WALL BOX w/NPT		Part #	
	30° 1"	22-6A023-1-B	NPT Thread on bottom. * Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT w/o TERMINAL BLOCKS			
	70° 1/2"	223C7N05	NPT is drilled on top of metal box as standard. For NPT on side only, add an "L" suffix. To switch from top to bottom or left to right the box can be rotated. * Interior volume with receptacle installed.
	70° 3/4"	223C7N07	
	70° 1"	223C7N10	
	70° 1 1/4"	223C7N12	
	70° 1 1/2"	223C7N15	

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

POLY WALL BOX 160x160 w/o TERMINAL BLOCKS w/CORD GRIP					
 * 179.4 in ³	70°	3/4"	.35 - .63"	223C7CPD	For use in Class I or II Division 2, Class I Zone I or Zone 21
	70°	3/4"	.51 - .71"	223C7CPC	
	70°	1"	.51 - .79"	223C7DPF	
	70°	1"	.71 - .98"	223C7DPE	1 hole with a poly cable gland.
	70°	1 1/2"	.79 - 1.02"	223C7M40PG	
	70°	1 1/2"	.87 - 1.26"	223C7M40PH	

HANDLES

POLY HANDLE w/POLY Cable Gland		Part #	
	10 - 14 mm	25-6A253-20P	For use in Zones 1 & 2 Zones 21 & 22.
	12 - 18 mm	25-6A753	
	16 - 25 mm	25-6A253-32P	
	22 - 32 mm	25-6A253-40P	

POLY HANDLE w/METAL Cable Gland			
	8 - 10 mm	25-6A253-20M	With Earth continuity.
	12 - 14 mm	25-6A253-25M	
	18 - 24 mm	25-6A253-32M	

ANGLES

POLY ANGLE			
	30°	25-6A027	

POLY ANGLE			
	70°	25-6A757	For panel mounting. Not a replacement part for 70° wall box.

BOXES

POLY WALL BOX		Part #	
	30° 12 - 18 mm	25-6AB53	

POLY WALL BOX 160x160 w/o TERMINAL BLOCKS			
	70° 10 - 14 mm	25-6AB88-20P	1 hole with a poly cable gland.
	70° 12 - 18 mm	25-6AB88-25P	
	70° 16 - 25 mm	25-6AB88-32P	
	70° 22 - 32 mm	25-6AB88-40P	

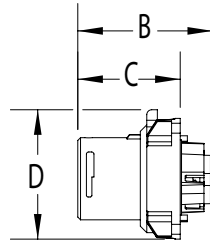
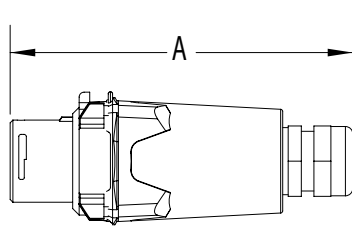
POLY WALL BOX 160x160 w/16mm² TERMINAL BLOCKS			
	70° 10 - 14 mm	25-6A088-20P	With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8 + 2E 16 mm² terminal blocks + 16 mm² wires, wiring 6 - 16 mm² for loop in loop out wiring -40°C ≤ Ta ≤ +55°C T4 T105°C -40°C ≤ Ta ≤ +50°C T5 T95°C
	70° 12 - 18 mm	25-6A088-25P	
	70° 16 - 25 mm	25-6A088-32P	
	70° 22 - 32 mm	25-6A088-40P	

HAZARDOUS
LOCATION

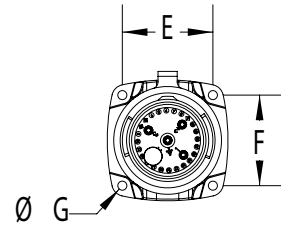
DXN DIMENSIONS Inlet – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug

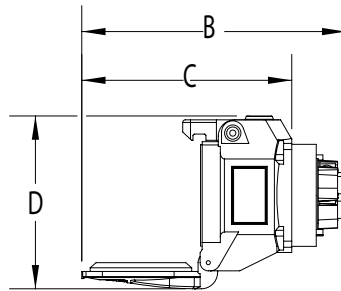
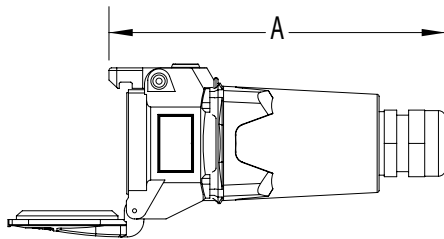


Inlet

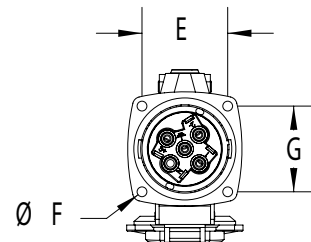


PRODUCT	A	B	C	D	E	F	Ø G
DXN20	6.36	2.57	1.86	2.4	1.65	1.65	0.18
DXN30	6.47	3.03	1.97	2.83	1.89	1.89	0.19
DXN60	9.67	3.94	2.19	3.02	2.19	2.19	0.20

Connector

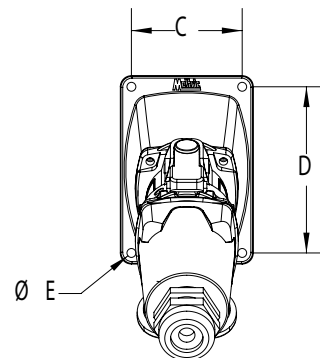
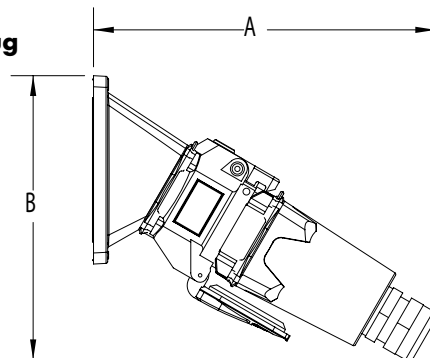


Receptacle



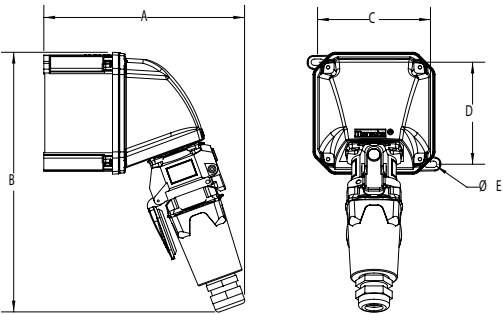
PRODUCT	A	B	C	D	E	Ø F	G
DXN20	6.22	4.77	4.09	5.28	1.65	0.18	1.65
DXN30	7.17	5.49	4.29	7.05	1.89	0.2	1.89
DXN60	8.31	7.18	5.91	7.68	2.19	0.2	2.19

30° Angle/Receptacle/Plug



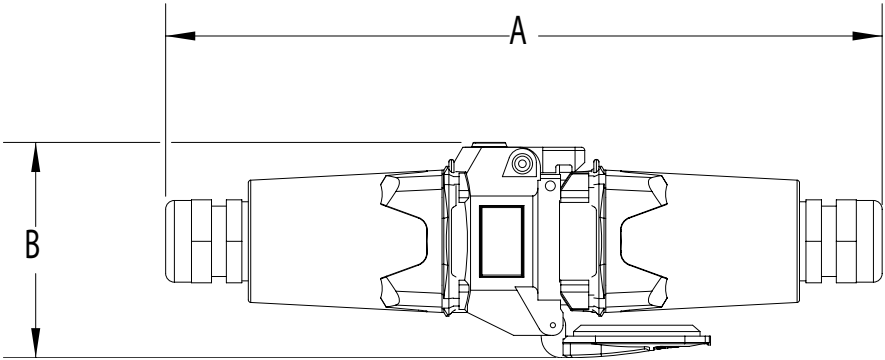
PRODUCT	A	B	C	D	Ø E
DXN20	7.52	5.91	2.5	3.75	0.2
DXN30	8.07	6.57	2.5	3.75	0.2
DXN60	9.41	7.48	2.5	3.75	0.2

70° Wall Box/ Receptacle/Plug



PRODUCT	A	B	C	D	øE
DXN20	8.17	10.57	4.6	4.15	0.26
DXN30	9.25	12.62	4.6	4.15	0.26
DXN60	11.88	13.39	6.17	5.73	0.26

Connector/Plug



PRODUCT	A	B
DXN20	11.10	3.33
DXN30	12.59	4.08
DXN60	13.95	4.65

DXA1

Hazardous Location Plug and Receptacle

Main Advantages

- ▶ CSA and ATEX hazardous listings
- ▶ Robust metal casings withstand harsh environments
- ▶ Spring-loaded, butt-style contacts provide superior performance
- ▶ Dual pawls with locking feature for secure connections



- ▶ **Features & Ratings** p. 186
- DXA1 20 p. 187

PRODUCT FEATURES



Locking Provision

For insertion of locking pin (or padlock) to prevent inadvertent disconnection (Standard).

Metal Casing

Provides excellent durability and protection.

Lid

Provides additional protection from harsh environments.

IP66/IP67 Watertightness

Environmental rating is achieved as soon as the plug is latched to the receptacle. There is no additional ring to tighten.

Silver-Nickel Contacts

Silver-nickel contact material provides superior conductivity, durability and corrosion resistance.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Hazardous Location Listings (CSA or ATEX)

CSA 	ATEX 
Ex de IIC T*Gb	II 2 G D Ex de IIC T*Gb Ex tb IIIC T* Db
Ex tb IIIC T*Db	-55°C <Ta< 40°C T6 T68°C
Class I Zone I AEx de IIC T*Gb	-55°C <Ta< 60°C T5 T88 °C
Zone 21 AEx td T*Db	LCIE 15 ATEX 3033 / IECEx LCIE 15.0030
Class I Division 2 Gr A,B,C,D	
Class II Division 2 Gr E,F,G	
-55°C <Ta< 40°C T6 T68°C	
-55°C <Ta< 60°C T5 T88 °C	

The DXA product line is similar to the DXN, but uses a larger casing made of aluminum and equipped with dual pawls for use in more abusive and colder environments.



HAZARDOUS
LOCATION

Hazardous Location Plugs & Receptacles – 20 A

Devices rated for hazardous locations are not returnable.

Certifications

- **Max Amperage & Voltage**
20 A, 600 VAC, 60 Hz
- **Current Interruption Capacity**
For current interrupting (AC)
- **Horsepower Ratings**

120V	1Ø	0.5 hp
240V	3Ø	2 hp
480V	3Ø	5 hp
600V	3Ø	5 hp
- **Short Circuit Rating**
25kA Close & Withstand
Testing was performed with RK1 30 A fuse sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
Note: Consult NEC for Short Circuit limits.
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -67°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 16 AWG Max 10 AWG
* Based on THHN wire sizes
- **Applicable Standards**
CSA C22.2 No. 182.1
- **Hazardous Location Ratings**

-55°C ≤ Ta ≤ +60°C
Ex de IIC T5 Gb Ex tb IIIC T88°C Db
Class I Zone1 AEx de IIC T5 Gb
Zone 21 AEx td T88°C Db
Class I Div 2 Gr A,B,C,D
Class II Div 2 Gr E,F,G
cCSAus 00.114406X

XX Suffix

XX [Suffix #]	Threaded NPT
-12	1/2"
-34	3/4"

Receptacle (female)



or

Inlet (male)



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	2814165	2818165
125V	1P+N+G	2814075	2818075
208V	2P+G	2814162	2818162
208V	3P+G	2814163	2818163
208V	3P+N+G	2814167	2818167
250V	2P+G	2814072	2818072
250V	3P+G	2814073	2818073
250V	2P+N+G	2814076	2818076
277V	1P+N+G	2814045	2818045
480V	2P+G	2814042	2818042
480V	3P+G	2814043	2818043
480V	3P+N+G	2814047	2818047
600V	2P+G	2814142	2818142
600V	3P+G	2814143	2818143
600V	3P+N+G	2814147	2818147

Connector (female)



or

Plug (male)



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	2813165XX	2811165XX
125V	1P+N+G	2813075XX	2811075XX
208V	2P+G	2813162XX	2811162XX
208V	3P+G	2813163XX	2811163XX
208V	3P+N+G	2813167XX	2811167XX
250V	2P+G	2813072XX	2811072XX
250V	3P+G	2813073XX	2811073XX
250V	2P+N+G	2813076XX	2811076XX
277V	1P+N+G	2813045XX	2811045XX
480V	2P+G	2813042XX	2811042XX
480V	3P+G	2813043XX	2811043XX
480V	3P+N+G	2813047XX	2811047XX
600V	2P+G	2813142XX	2811142XX
600V	3P+G	2813143XX	2811143XX
600V	3P+N+G	2813147XX	2811147XX

Cord grip not included. NPT sizes are determined by the cable diameter. Select hazardous cord grip from Cord Grip section, pg 166.

Receptacle/30° Angle (female)



or

Inlet/30° Angle (male)



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	2817165	2819165
125V	1P+N+G	2817075	2819075
208V	2P+G	2817162	2819162
208V	3P+G	2817163	2819163
208V	3P+N+G	2817167	2819167
250V	2P+G	2817072	2819072
250V	3P+G	2817073	2819073
250V	2P+N+G	2817076	2819076
277V	1P+N+G	2817045	2819045
480V	2P+G	2817042	2819042
480V	3P+G	2817043	2819043
480V	3P+N+G	2817047	2819047
600V	2P+G	2817142	2819142
600V	3P+G	2817143	2819143
600V	3P+N+G	2817147	2819147

Accessories & Options



Inlet Cap

Part #

281A426

Receptacle
Lockout Pin

Part #

LP-843

Finger
Drawplates

Part #

281A346

Receptacle/Wall Box (female)



or

Inlet/Wall Box (male)

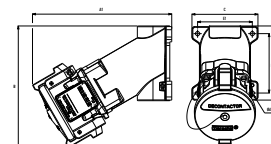


North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	2810165XXY	2816165XXY
125V	1P+N+G	2810075XXY	2816075XXY
208V	2P+G	2810162XXY	2816162XXY
208V	3P+G	2810163XXY	2816163XXY
208V	3P+N+G	2810167XXY	2816167XXY
250V	2P+G	2810072XXY	2816072XXY
250V	3P+G	2810073XXY	2816073XXY
250V	2P+N+G	2810076XXY	2816076XXY
277V	1P+N+G	2810045XXY	2816045XXY
480V	2P+G	2810042XXY	2816042XXY
480V	3P+G	2810043XXY	2816043XXY
480V	3P+N+G	2810047XXY	2816047XXY
600V	2P+G	2810142XXY	2816142XXY
600V	3P+G	2810143XXY	2816143XXY
600V	3P+N+G	2810147XXY	2816147XXY

XXY Suffix

XXY [Suffix #]	Threaded NPT	Location
12T	1/2"	Top
12B	1/2"	Bottom
34T	1/2"	Top
34B	1/2"	Bottom



! Contact MELTRIC Engineering for DXA1 dimensions.

ZONE 2

Hazardous Location Rated Plug and Receptacle



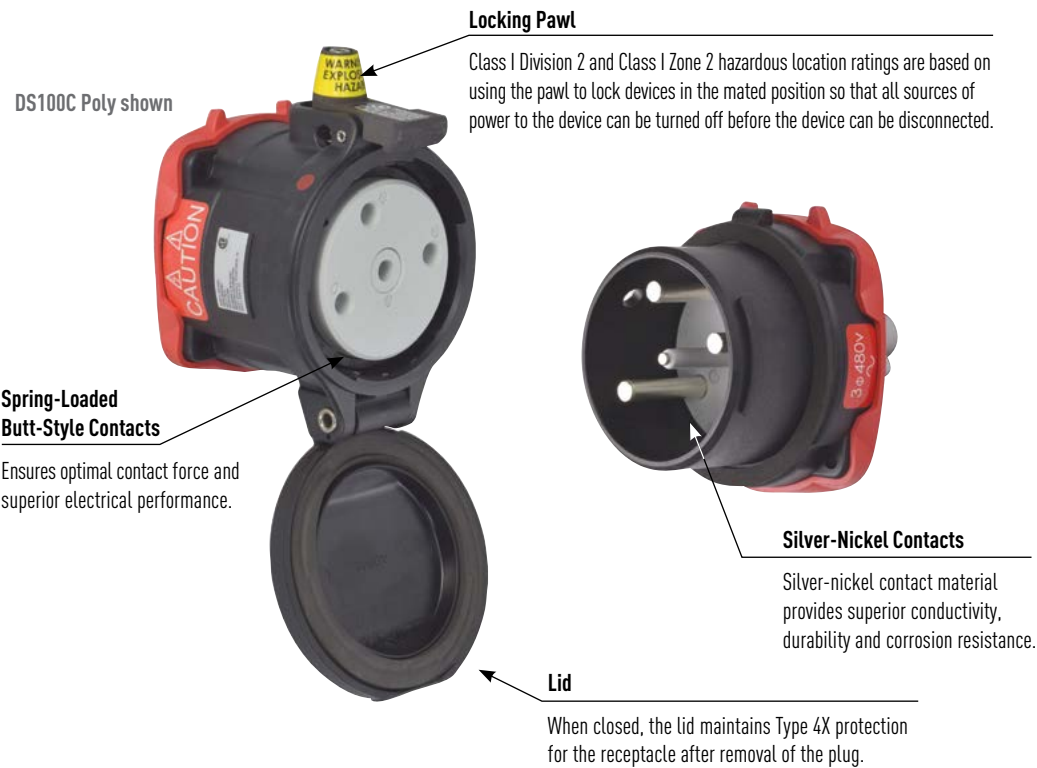
Main Advantages

- ▶ Featuring silver nickel butt-style contacts for maximum performance and durability
- ▶ Available in in-line and wall/panel mounted configurations
- ▶ Ideal for motor connections up to 75 hp



- | | |
|----------------------|--------|
| ▶ Features & Ratings | p. 190 |
| ▶ DS | p. 191 |
| ▶ DSN | p. 199 |
| ▶ DR | p. 203 |
| ▶ DSDC | p. 209 |

PRODUCT FEATURES



General Ratings

Amperage	20 to 250 A
Voltage	600 VAC
Frequency	60 Hz
Horsepower	2 to 100 hp
Environmental	Type 4X
Temperature	min -40°F/max 104°F

Hazardous Location Listings

CSA 
Class I Division 2 Gr A,B,C,D, T6
Class I Zone 2, IIC

Plug & Receptacles Listings (CSA)

Category	CSA
Plugs and Receptacles	C22.2 No. 182.1-07
Electrical Equipment for Class I, Div 2 Locations	C22.2 No. 213-M1987

Operating Instructions



Before connection, ensure that the circuit is deenergized. Align the red dots, push the plug partially in, then turn clockwise slightly to line up the latch with the catch.



Push the plug fully home until it is held in place by the latch. The circuit is now closed.



Listing Requirement: Tighten screw to lock the plug in the mated position.



Optional: Insert a 5/16" lock or locking pin to prevent disconnection or to lock the receptacle lid closed.

Highlighted Feature

Typical Device Labels

Meltric DS60 60 A, 480VAC 20hp, TYPE 4X 1002001 36-64043 RECEPTACLE/CONNECTOR Class I, Division 2, Groups ABCD, T6 Class I, Zone 2, IIC	
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DS and DSN plugs and receptacles are CSA horsepower rated for motor connections in hazardous locations. Not to be operated while energized.

DS20 Hazardous Location Plugs & Receptacles – 20 A

Devices rated for hazardous locations are not returnable.

SP Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

120V	1Ø	.75 hp
208V	3Ø	3 hp
240V	3Ø	5 hp
480V	3Ø	7.5 hp
600V	3Ø	10 hp
- Short Circuit Rating**
100kA Withstand
Tested with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 14 AWG Max 8 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Hazardous Location DS20 lid is normally closed

Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	35-14165-xxx-HAZ	35-18165-xxx-HAZ
120 208V	3P+N+G	35-14167-xxx-HAZ	35-18167-xxx-HAZ
125V	1P+N+G	35-14075-xxx-HAZ	35-18075-xxx-HAZ
125 250V	2P+N+G	35-14076-xxx-HAZ	35-18076-xxx-HAZ
208V	2P+G	35-14162-xxx-HAZ	35-18162-xxx-HAZ
208V	3P+G	35-14163-xxx-HAZ	35-18163-xxx-HAZ
250V	2P+G	35-14072-xxx-HAZ	35-18072-xxx-HAZ
250V	3P+G	35-14073-xxx-HAZ	35-18073-xxx-HAZ
277V	1P+N+G	35-14045-xxx-HAZ	35-18045-xxx-HAZ
277 480V	3P+N+G	35-14047-xxx-HAZ	35-18047-xxx-HAZ
347 600V	3P+N+G	35-14147-xxx-HAZ	35-18147-xxx-HAZ
480V	2P+G	35-14042-xxx-HAZ	35-18042-xxx-HAZ
480V	3P+G	35-14043-xxx-HAZ	35-18043-xxx-HAZ
600V	2P+G	35-14142-xxx-HAZ	35-18142-xxx-HAZ
600V	3P+G	35-14143-xxx-HAZ	35-18143-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DS20 + 2 aux contacts

DS20 recept 3P+G = 35-14043-972-HAZ

480V DS20 with no options

DS20 recept 3P+G = 35-14043-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

Normally Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # -A155

Feature Spotlight – Screw-Type Locking Pawl



Listing Requirement
Users must tighten screw to lock the plug in the mated position

Zone 2/Division 2 DS20 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 2

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	552P0N05	5K2P0N05
	3/4"	552P0N07	5K2P0N07
	1"	552P0N10	5K2P0N10
	1 1/4"	552P0N12	-

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.20 - .82"	552P0D21
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i

Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.660 - 1.000"	1"
.438 - .812"	3/4"	.875 - 1.375"	1 1/4"

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT

	30°	1/2"	752C3N05	* Interior volume with receptacle installed.
	30°	3/4"	752C3N07	
	30°	1"	752C3N10	
	30°	1 1/4"	752C3N12	
* 28.7 in ³				

METAL ANGLE WITH METAL BOX w/NPT

	30°	1/2"	7K2C3N05	* Interior volume with receptacle installed.
	30°	3/4"	7K2C3N07	
	30°	1"	7K2C3N10	
	30°	1 1/4"	7K2C3N12	
* 28.7 in ³				

POLY ANGLE WITH LARGER METAL BOX w/NPT

	70°	1/2"	752C7N05	* Interior volume with receptacle installed.
	70°	3/4"	752C7N07	
	70°	1"	752C7N10	
	70°	1 1/4"	752C7N12	
	70°	1 1/2"	752C7N15	
* 75.0 in ³				

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE

	30°	552M3
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METAL ANGLE

	0°	5K2M0
	30°	5K2M3

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES

	61-3A346	Set of Two (2) Recommended for easier connector closure.
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PROTECTIVE INLET/PLUG CAP

	31-1A426	For Inlets/Plugs Only.
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RECEPTACLE LOCKING PIN

	LP-843
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Notes: For Zone 2 DS dimensions refer to DS dimensions on pgs 55-56.

DS30 Hazardous Location Plugs & Receptacles – 30 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

120V	1Ø	1 1/2 hp
240V	1Ø	3 hp
208V	3Ø	5 hp
240V	3Ø	5 hp
480V	3Ø	15 hp
600V	3Ø	15 hp
- Short Circuit Rating**
100kA Withstand
Tested with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 14 AWG Max 4 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Hazardous Location DS30 lid is normally closed

! Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	35-34165-xxx-HAZ	35-38165-xxx-HAZ
120 208V	3P+N+G	35-34167-xxx-HAZ	35-38167-xxx-HAZ
125V	1P+N+G	35-34075-xxx-HAZ	35-38075-xxx-HAZ
125 250V	2P+N+G	35-34076-xxx-HAZ	35-38076-xxx-HAZ
208V	2P+G	35-34162-xxx-HAZ	35-38162-xxx-HAZ
208V	3P+G	35-34163-xxx-HAZ	35-38163-xxx-HAZ
250V	2P+G	35-34072-xxx-HAZ	35-38072-xxx-HAZ
250V	3P+G	35-34073-xxx-HAZ	35-38073-xxx-HAZ
277V	1P+N+G	35-34045-xxx-HAZ	35-38045-xxx-HAZ
277 480V	3P+N+G	35-34047-xxx-HAZ	35-38047-xxx-HAZ
347 600V	3P+N+G	35-34147-xxx-HAZ	35-38147-xxx-HAZ
480V	2P+G	35-34042-xxx-HAZ	35-38042-xxx-HAZ
480V	3P+G	35-34043-xxx-HAZ	35-38043-xxx-HAZ
600V	2P+G	35-34142-xxx-HAZ	35-38142-xxx-HAZ
600V	3P+G	35-34143-xxx-HAZ	35-38143-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DS30 + 2 aux contacts

DS30 recept 3P+G = 35-34043-972-HAZ

480V DS30 with no options

DS30 recept 3P+G = 35-34043-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 973

With 3 Auxiliary/Pilot Contacts

Inlet # - 973

With 4 Auxiliary/Pilot Contacts

Recept # - 974

With 4 Auxiliary/Pilot Contacts

Inlet # - 974

Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

Feature Spotlight – Screw-Type Locking Pawl



Listing Requirement

Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DS30 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security



See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 3

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	553P0N05	5K3P0N05
	3/4"	553P0N07	5K3P0N07
	1"	553P0N10	5K3P0N10
	1 1/4"	553P0N12	5K3P0N12

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.39 - 1.18"	553P0D30
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Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.660 - 1.000"	1"
.438 - .812"	3/4"	.875 - 1.375"	1 1/4"

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT

	30°	1/2"	753C3N05	* Interior volume with receptacle installed.
	30°	3/4"	753C3N07	
	30°	1"	753C3N10	
	30°	1 1/4"	753C3N12	
* 29.6 in ³				

METAL ANGLE WITH METAL BOX w/NPT

	30°	1/2"	7K3C3N05	* Interior volume with receptacle installed.
	30°	3/4"	7K3C3N07	
	30°	1"	7K3C3N10	
	30°	1 1/4"	7K3C3N12	
* 29.6 in ³				

POLY ANGLE WITH LARGER METAL BOX w/NPT

	70°	1/2"	753C7N05	* Interior volume with receptacle installed.
	70°	3/4"	753C7N07	
	70°	1"	753C7N10	
	70°	1 1/4"	753C7N12	
	70°	1 1/2"	753C7N15	
* 170.0 in ³				

METAL ANGLE WITH METAL BOX w/NPT

	70°	1/2"	7K3C7N05	* Interior volume with receptacle installed.
	70°	3/4"	7K3C7N07	
	70°	1"	7K3C7N10	
	70°	1 1/4"	7K3C7N12	
* 27.7 in ³				

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE

	30°	553M3
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METAL ANGLE

	0°	5K3M0
	30°	5K3M3
	70°	5K3M7

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES

	61-6A346	Set of Two (2) Recommended for easier connector closure.
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PROTECTIVE INLET/PLUG CAP

	31-3A426	For Inlets/Plugs Only.
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RECEPTACLE LOCKING PIN

	LP-843
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Notes: For Zone 2 DS dimensions refer to DS dimensions on pgs 55-56.

DS60 Hazardous Location Plugs & Receptacles – 60 A

Devices rated for hazardous locations are not returnable.

SP Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

120V	1Ø	3 hp
240V	1Ø	5 hp
208V	3Ø	10 hp
240V	3Ø	10 hp
480V	3Ø	25 hp
600V	3Ø	25 hp
- Short Circuit Rating**
100kA Withstand
Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 10 AWG Max 2 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Don't forget to add installation accessories to your order

Hazardous Location DS60 lid is normally closed and opens to 120°

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	36-64165-xxx-HAZ	36-68165-xxx-HAZ
120 208V	3P+N+G	36-64167-xxx-HAZ	36-68167-xxx-HAZ
125V	1P+N+G	36-64075-xxx-HAZ	36-68075-xxx-HAZ
125 250V	2P+N+G	36-64076-xxx-HAZ	36-68076-xxx-HAZ
208V	2P+G	36-64162-xxx-HAZ	36-68162-xxx-HAZ
208V	3P+G	36-64163-xxx-HAZ	36-68163-xxx-HAZ
250V	2P+G	36-64072-xxx-HAZ	36-68072-xxx-HAZ
250V	3P+G	36-64073-xxx-HAZ	36-68073-xxx-HAZ
277V	1P+N+G	36-64045-xxx-HAZ	36-68045-xxx-HAZ
277 480V	3P+N+G	36-64047-xxx-HAZ	36-68047-xxx-HAZ
347 600V	3P+N+G	36-64147-xxx-HAZ	36-68147-xxx-HAZ
480V	2P+G	36-64042-xxx-HAZ	36-68042-xxx-HAZ
480V	3P+G	36-64043-xxx-HAZ	36-68043-xxx-HAZ
600V	2P+G	36-64142-xxx-HAZ	36-68142-xxx-HAZ
600V	3P+G	36-64143-xxx-HAZ	36-68143-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DS60 + 2 aux contacts

DS60 recept 3P+G = 36-64043-972-HAZ

480V DS60 with no options

DS60 recept 3P+G = 36-64043-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 263

With 3 Auxiliary/Pilot Contacts

Inlet # - 263

With 4 Auxiliary/Pilot Contacts

Recept # - 264

With 4 Auxiliary/Pilot Contacts

Inlet # - 264

Normally Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

180° Opening Lid

Recept # - 180

Feature Spotlight – Screw-Type Locking Pawl

Listing Requirement
Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DS60 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 4

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	554P0N05	5K4P0N05
	3/4"	554P0N07	5K4P0N07
	1"	554P0N10	5K4P0N10
	1 1/4"	554P0N12	5K4P0N12
	1 1/2"	554P0N15	5K4P0N15

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.51 - 1.38"	554P0D35
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Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.875 - 1.375"	1 1/4"
.438 - .812"	3/4"	.890 - 1.812"	1 1/2"
.660 - 1.000"	1"		

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT

	30°	1"	754C3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	754C3N12	
	30°	1 1/2"	754C3N15	
	30°	2"	754C3N20	

* 61.0 in³

METAL ANGLE WITH METAL BOX w/NPT

	30°	1"	7K4C3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	7K4C3N12	
	30°	1 1/2"	7K4C3N15	
	30°	2"	7K4C3N20	

* 59.4 in³

METAL ANGLE WITH METAL BOX w/NPT

	70°	1"	7K4C7N10	* Interior volume with receptacle installed.
	70°	1 1/4"	7K4C7N12	
	70°	1 1/2"	7K4C7N15	
	70°	2"	7K4C7N20	

* 91.0 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE

	30°	554M3
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METAL ANGLE

	0°	5K4M0
	30°	5K4M3
	70°	5K4M7

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES

	31-6A346	Set of Two (2) Recommended for easier connector closure.
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PROTECTIVE INLET/PLUG CAP

	31-6A426	For Inlets/Plugs Only.
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PADLOCKABLE INLET/PLUG CAP

	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
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RECEPTACLE LOCKING PIN

	LP-843
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Notes: For Zone 2 DS dimensions refer to DS dimensions on pgs 55-56.

DS100C Hazardous Location Plugs & Receptacles – 100 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

120V	1Ø	5 hp
240V	1Ø	10 hp
208V	3Ø	20 hp
240V	3Ø	20 hp
480V	3Ø	50 hp
600V	3Ø	50 hp
- Short Circuit Rating**
100kA Withstand
Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 10 AWG Max 2 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Don't forget to add installation accessories to your order

Hazardous Location DS100C lid is normally closed and opens to 120°

Voltage	Polarity	Part #		Part #	
		Poly	Metal	Poly	Metal
120V	1P+N+G	35-64235-C-K16-xxx-HAZ	36-64235-C-K16-xxx-HAZ	35-68235-C-K16-xxx-HAZ	36-68235-C-K16-xxx-HAZ
120 208V	3P+N+G	35-64237-C-K16-xxx-HAZ	36-64237-C-K16-xxx-HAZ	35-68237-C-K16-xxx-HAZ	36-68237-C-K16-xxx-HAZ
125V	1P+N+G	35-64175-C-K07-xxx-HAZ	36-64175-C-K07-xxx-HAZ	35-68175-C-K07-xxx-HAZ	36-68175-C-K07-xxx-HAZ
125 250V	2P+N+G	35-64176-C-K07-xxx-HAZ	36-64176-C-K07-xxx-HAZ	35-68176-C-K07-xxx-HAZ	36-68176-C-K07-xxx-HAZ
208V	2P+G	35-64232-C-K16-xxx-HAZ	36-64232-C-K16-xxx-HAZ	35-68232-C-K16-xxx-HAZ	36-68232-C-K16-xxx-HAZ
208V	3P+G	35-64233-C-K16-xxx-HAZ	36-64233-C-K16-xxx-HAZ	35-68233-C-K16-xxx-HAZ	36-68233-C-K16-xxx-HAZ
250V	2P+G	35-64172-C-K07-xxx-HAZ	36-64172-C-K07-xxx-HAZ	35-68172-C-K07-xxx-HAZ	36-68172-C-K07-xxx-HAZ
250V	3P+G	35-64173-C-K07-xxx-HAZ	36-64173-C-K07-xxx-HAZ	35-68173-C-K07-xxx-HAZ	36-68173-C-K07-xxx-HAZ
277V	1P+N+G	35-64245-C-K04-xxx-HAZ	36-64245-C-K04-xxx-HAZ	35-68245-C-K04-xxx-HAZ	36-68245-C-K04-xxx-HAZ
277 480V	3P+N+G	35-64247-C-K04-xxx-HAZ	36-64247-C-K04-xxx-HAZ	35-68247-C-K04-xxx-HAZ	36-68247-C-K04-xxx-HAZ
347 600V	3P+N+G	35-64187-C-K14-xxx-HAZ	36-64187-C-K14-xxx-HAZ	35-68187-C-K14-xxx-HAZ	36-68187-C-K14-xxx-HAZ
480V	2P+G	35-64242-C-K04-xxx-HAZ	36-64242-C-K04-xxx-HAZ	35-68242-C-K04-xxx-HAZ	36-68242-C-K04-xxx-HAZ
480V	3P+G	35-64243-C-K04-xxx-HAZ	36-64243-C-K04-xxx-HAZ	35-68243-C-K04-xxx-HAZ	36-68243-C-K04-xxx-HAZ
600V	2P+G	35-64182-C-K14-xxx-HAZ	36-64182-C-K14-xxx-HAZ	35-68182-C-K14-xxx-HAZ	36-68182-C-K14-xxx-HAZ
600V	3P+G	35-64183-C-K14-xxx-HAZ	36-64183-C-K14-xxx-HAZ	35-68183-C-K14-xxx-HAZ	36-68183-C-K14-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DS100C + 2 aux contacts

DS100C Poly recept 3P+G = 35-64243-C-K04-972-HAZ

480V DS100C with no options

DS100C Poly recept 3P+G = 35-64243-C-K04-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 263

With 3 Auxiliary/Pilot Contacts

Inlet # - 263

With 4 Auxiliary/Pilot Contacts

Recept # - 264

With 4 Auxiliary/Pilot Contacts

Inlet # - 264

Normally Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

180° Opening Lid (metal only)

Recept # - 180

Feature Spotlight – Screw-Type Locking Pawl



Listing Requirement

Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DS100C receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security



See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 4

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	554P0N05	5K4P0N05
	3/4"	554P0N07	5K4P0N07
	1"	554P0N10	5K4P0N10
	1 1/4"	554P0N12	5K4P0N12
	1 1/2"	554P0N15	5K4P0N15

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.51 - 1.38"	554PD035
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Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.875 - 1.375"	1 1/4"
.438 - .812"	3/4"	.890 - 1.812"	1 1/2"
.660 - 1.000"	1"		

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT

	30°	1"	754C3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	754C3N12	
	30°	1 1/2"	754C3N15	
	30°	2"	754C3N20	

* 61.0 in³

METAL ANGLE WITH METAL BOX w/NPT

	30°	1"	7K4C3N10	* Interior volume with receptacle installed.
	30°	1 1/4"	7K4C3N12	
	30°	1 1/2"	7K4C3N15	
	30°	2"	7K4C3N20	

* 59.4 in³

METAL ANGLE WITH METAL BOX w/NPT

	70°	1"	7K4C7N10	* Interior volume with receptacle installed.
	70°	1 1/4"	7K4C7N12	
	70°	1 1/2"	7K4C7N15	
	70°	2"	7K4C7N20	

* 170.0 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE

	30°	554M3
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METAL ANGLE

	0°	5K4M0
	30°	5K4M3
	70°	5K4M7

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES

	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.
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PROTECTIVE INLET/PLUG CAP

	31-6A426	For Inlets/Plugs Only.
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PADLOCKABLE INLET/PLUG CAP

	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
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RECEPTACLE LOCKING PIN

	LP-843
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Notes: For Zone 2 DS dimensions refer to DS dimensions on pgs 55-56.

DSN150 Hazardous Location Plugs & Receptacles – 150 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

120V	1Ø	7 1/2 hp
240V	1Ø	20 hp
208V	3Ø	30 hp
240V	3Ø	30 hp
480V	3Ø	75 hp
600V	3Ø	75 hp
- Short Circuit Rating**
100kA Withstand
Testing was performed with 225 A RK1 non-time delay Mersen fuses.
10kA Withstand
Testing was performed with 400 A RK1 non-time delay Mersen fuses.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 4 AWG Max 2/0 AWG
Aux Contacts - Max 14 AWG
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC



Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	66-94165-xxx-HAZ	66-98165-xxx-HAZ
120 208V	3P+N+G	66-94167-xxx-HAZ	66-98167-xxx-HAZ
125V	1P+N+G	66-94075-xxx-HAZ	66-98075-xxx-HAZ
125 250V	2P+N+G	66-94076-xxx-HAZ	66-98076-xxx-HAZ
208V	2P+G	66-94162-xxx-HAZ	66-98162-xxx-HAZ
208V	3P+G	66-94163-xxx-HAZ	66-98163-xxx-HAZ
250V	2P+G	66-94072-xxx-HAZ	66-98072-xxx-HAZ
250V	3P+G	66-94073-xxx-HAZ	66-98073-xxx-HAZ
277V	1P+N+G	66-94045-xxx-HAZ	66-98045-xxx-HAZ
277 480V	3P+N+G	66-94047-xxx-HAZ	66-98047-xxx-HAZ
347 600V	3P+N+G	66-94147-xxx-HAZ	66-98147-xxx-HAZ
480V	2P+G	66-94042-xxx-HAZ	66-98042-xxx-HAZ
480V	3P+G	66-94043-xxx-HAZ	66-98043-xxx-HAZ
600V	2P+G	66-94142-xxx-HAZ	66-98142-xxx-HAZ
600V	3P+G	66-94143-xxx-HAZ	66-98143-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DSN150 + 2 aux contacts

DSN150 recept 3P+G = 66-94043-262-HAZ

480V DSN150 with no options

DSN150 recept 3P+G = 66-94043-HAZ

Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # - 262	With 2 Auxiliary/Pilot Contacts	Inlet # - 262
With 3 Auxiliary/Pilot Contacts	Recept # - 263	With 3 Auxiliary/Pilot Contacts	Inlet # - 263
With 4 Auxiliary/Pilot Contacts	Recept # - 264	With 4 Auxiliary/Pilot Contacts	Inlet # - 264
With 5 Auxiliary/Pilot Contacts	Recept # - 975	With 5 Auxiliary/Pilot Contacts	Inlet # - 975
With 6 Auxiliary/Pilot Contacts	Recept # - 976	With 6 Auxiliary/Pilot Contacts	Inlet # - 976
180° Opening Lid	Recept # - 180**	With No Lockout Hole	Inlet # - A155
Normally Open Lid Configuration	Recept # - NO		

Notes: ** Required when mating to panel mounted male inlet.

Feature Spotlight – Screw-Type Locking Pawl



Listing Requirement
Users must tighten screw to lock the plug in the mated position

5/16" hole for added security

Zone 2/Division 2 DSN150 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl. For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 5

Accessories rated for hazardous locations are not returnable.

HANDLES

METAL HANDLE w/NPT		Part #
	3/4"	5K5P0N07
	1"	5K5P0N10
	1 1/4"	5K5P0N12
	1 1/2"	5K5P0N15
	2"	5K5P0N20
For available third party cord grips, consult factory.		
OVERSIZED METAL HANDLE w/NPT		
	3/4"	7K5P0N07
	1"	7K5P0N10
	1 1/4"	7K5P0N12
	1 1/2"	7K5P0N15
	2"	7K5P0N20
	2 1/2"	7K5P0N25
SANTOPRENE HANDLE w/Cable Range		
	.70 - 1.000"	555P0D25
	.984 - 1.377"	555P0D35
	1.378 - 1.771"	555P0D45

IP66/IP67

BOXES

METAL ANGLE WITH METAL BOX w/NPT			
	30°	1 1/4"	7K5C3N12
	30°	1 1/2"	7K5C3N15
	30°	2"	7K5C3N20
	30°	2 1/2"	7K5C3N25
	111.8 in ³ *		
METAL ANGLE WITH METAL BOX w/NPT			
	70°	1 1/4"	7K5C7N12
	70°	1 1/2"	7K5C7N15
	70°	2"	7K5C7N20
	70°	2 1/2"	7K5C7N25
	175.0 in ³ *		

* Interior volume with receptacle installed.

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

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Cable Range	NPT	Cable Range	NPT
.438 - .812"	3/4"	.890" - 1.812"	1 1/2"
.660 - 1.000"	1"	1.190" - 2.438"	2"
.875 - 1.375"	1 1/4"	2.062" - 2.438"	2 1/2"

NPT sizes are determined by the cable diameter and third party cord grip.

ANGLES

METAL ANGLE		
	0°	5K5M0
	30°	5K5M3
	70°	5K5M7

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	31-9A426	For Inlets/Plugs Only.
PADLOCKABLE INLET/PLUG CAP		
	DS9MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
CORD GRIP		
	see pg 166	
RECEPTACLE LOCKING PIN		
	LP-843	

HAZARDOUS
LOCATION

Notes: For Zone 2 DSN dimensions refer to DSN dimensions on pgs 37-38.

DS200

Hazardous Location Plugs & Receptacles – 200 A

Devices rated for hazardous locations are not returnable.

SPC Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Horsepower Ratings**

208V	3Ø	40 hp
240V	3Ø	40 hp
480V	3Ø	100 hp
600V	3Ø	100 hp
- Short Circuit Rating**
65kA Close & Withstand
Testing was performed with RK5 time delay fuses sized at 100% of the devices rated ampacity.
10kA Close & Withstand
Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 4 AWG Max 4/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Standard Hazardous Location DS200 lid is normally closed and opens to 90° (degrees)

Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	36-24165-xxx-HAZ	36-28165-xxx-HAZ
120 208V	3P+N+G	36-24167-xxx-HAZ	36-28167-xxx-HAZ
125V	1P+N+G	36-24075-xxx-HAZ	36-28075-xxx-HAZ
125 250V	2P+N+G	36-24076-xxx-HAZ	36-28076-xxx-HAZ
208V	2P+G	36-24162-xxx-HAZ	36-28162-xxx-HAZ
208V	3P+G	36-24163-xxx-HAZ	36-28163-xxx-HAZ
250V	2P+G	36-24072-xxx-HAZ	36-28072-xxx-HAZ
250V	3P+G	36-24073-xxx-HAZ	36-28073-xxx-HAZ
277V	1P+N+G	36-24045-xxx-HAZ	36-28045-xxx-HAZ
277 480V	3P+N+G	36-24047-xxx-HAZ	36-28047-xxx-HAZ
347 600V	3P+N+G	36-24147-xxx-HAZ	36-28147-xxx-HAZ
480V	2P+G	36-24042-xxx-HAZ	36-28042-xxx-HAZ
480V	3P+G	36-24043-xxx-HAZ	36-28043-xxx-HAZ
600V	2P+G	36-24142-xxx-HAZ	36-28142-xxx-HAZ
600V	3P+G	36-24143-xxx-HAZ	36-28143-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DS200 + 2 aux contacts

DS200 recept 3P+G = 36-24043-972-HAZ

480V DS200 with no options

DS200 recept 3P+G = 36-24043-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972	With 2 Auxiliary/Pilot Contacts	Inlet # - 972
With 4 Auxiliary/Pilot Contacts	Recept # - 174	With 4 Auxiliary/Pilot Contacts	Inlet # - 174
With 6 Auxiliary/Pilot Contacts	Recept # - 976	With 6 Auxiliary/Pilot Contacts	Inlet # - 976
180° Opening Lid	Recept # - 180**	With No Lockout Hole	Inlet # - A155
Normally Open Lid Configuration	Recept # - NO		

Notes: ** Required when mating to panel mounted male inlet.

Feature Spotlight – Screw-Type Locking Pawl



Listing Requirement
Users must tighten screw to lock the plug in the mated position

5/16" hole for added security

Zone 2/Division 2 DS200 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl. For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 6

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT	Part # Metal
1"	5K6P0N10
1 1/4"	5K6P0N12
1 1/2"	5K6P0N15
2"	5K6P0N20
2 1/2"	5K6P0N25
3"	5K6P0N30



Metal

For available cord grips, see pg 166.

SANTOPRENE HANDLE w/Cable Range

 IP66/IP67	.984 - 1.378"	556P0D35
	1.378 - 1.772"	556P0D45
	1.772 - 1.929"	556P0D49

BOXES

METAL ANGLE WITH METAL BOX w/NPT	Part #
60° 1 1/2"	7K6C6N15
60° 2"	7K6C6N20
60° 2 1/2"	7K6C6N25



* 248.4 in³

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.



Cable Range	NPT	Cable Range	NPT
.660 - 1.000"	1"	1.190 - 2.438"	2"
.875 - 1.375"	1 1/4"	2.062 - 2.438"	2 1/2"
.890 - 1.812"	1 1/2"	2.438 - 2.812"	3"

NPT sizes are determined by the cable diameter and third party cord grip.

ANGLES

METAL ANGLE	Part # Metal
0°	5K6M0
60°	5K6M6



MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	39-2A426	For Inlets/Plugs Only.
PADLOCKABLE INLET/PLUG CAP		
	DS2MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.
CORD GRIP with MESH		
	see pg 165	
RECEPTACLE LOCKING PIN		
	LP-843	

HAZARDOUS
LOCATION

Notes: For Zone 2 DS dimensions refer to DS dimensions on pgs 55-56.

DR30 Hazardous Location Plugs & Receptacles – 30 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Short Circuit Rating**
100kA Withstand
Testing was performed with RK1 current limiting fuses sized at 100% of the devices ampacity rating.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 14 AWG Max 8 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Hazardous Location DR30 lid is normally closed

Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	35-14235-K16-xxx-HAZ	35-18235-K16-xxx-HAZ
120 208V	3P+N+G	35-14237-K16-xxx-HAZ	35-18237-K16-xxx-HAZ
125V	1P+N+G	35-14175-K07-xxx-HAZ	35-18175-K07-xxx-HAZ
125 250V	2P+N+G	35-14176-K07-xxx-HAZ	35-18176-K07-xxx-HAZ
208V	2P+G	35-14232-K16-xxx-HAZ	35-18232-K16-xxx-HAZ
208V	3P+G	35-14233-K16-xxx-HAZ	35-18233-K16-xxx-HAZ
250V	2P+G	35-14172-K07-xxx-HAZ	35-18172-K07-xxx-HAZ
250V	3P+G	35-14173-K07-xxx-HAZ	35-18173-K07-xxx-HAZ
277V	1P+N+G	35-14245-K04-xxx-HAZ	35-18245-K04-xxx-HAZ
277 480V	3P+N+G	35-14247-K04-xxx-HAZ	35-18247-K04-xxx-HAZ
347 600V	3P+N+G	35-14187-K14-xxx-HAZ	35-18187-K14-xxx-HAZ
480V	2P+G	35-14242-K04-xxx-HAZ	35-18242-K04-xxx-HAZ
480V	3P+G	35-14243-K04-xxx-HAZ	35-18243-K04-xxx-HAZ
600V	2P+G	35-14182-K14-xxx-HAZ	35-18182-K14-xxx-HAZ
600V	3P+G	35-14183-K14-xxx-HAZ	35-18183-K14-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DR30 + 2 aux contacts

DR30 recept 3P+G = 35-14243-K04-972-HAZ

480V DR30 with no options

DR30 recept 3P+G = 35-14243-K04-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

Normally Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

Feature Spotlight – Screw-Type Locking Pawl

- Listing Requirement**
Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DR30 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 2

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	552P0N05	5K2P0N05
	3/4"	552P0N07	5K2P0N07
	1"	552P0N10	5K2P0N10
	1 1/4"	552P0N12	-

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.20 - .82"	552P0D21
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Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.660 - 1.000"	1"
.438 - .812"	3/4"	.875 - 1.375"	1 1/4"

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	752C3N05
	30°	3/4"	752C3N07
	30°	1"	752C3N10
	30°	1 1/4"	752C3N12

* 28.7 in³

* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX w/NPT			
	30°	1/2"	7K2C3N05
	30°	3/4"	7K2C3N07
	30°	1"	7K2C3N10
	30°	1 1/4"	7K2C3N12

* 28.7 in³

* Interior volume with receptacle installed.

POLY ANGLE WITH LARGER METAL BOX w/NPT			
	70°	1/2"	752C7N05
	70°	3/4"	752C7N07
	70°	1"	752C7N10
	70°	1 1/4"	752C7N12
	70°	1 1/2"	752C7N15
	70°	1 1/2"	752C7N15

* 75.0 in³

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE	
	30°
552M3	
METAL ANGLE	
	0°
5K2M0	
	30°
5K2M3	

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	61-3A346	Set of Two (2) Recommended for easier connector closure.
PROTECTIVE INLET/PLUG CAP		
	31-1A426	For Inlets/Plugs Only.
RECEPTACLE LOCKING PIN		
	LP-843	

Notes: For Zone 2 DR dimensions refer to DR dimensions on pgs 99-100.

DR50 Hazardous Location Plugs & Receptacles – 50 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Short Circuit Rating**
100kA Withstand
Testing was performed with RK1 current limiting fuses sized at 100% of the devices ampacity rating.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 14 AWG Max 4 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Hazardous Location DR50 lid is normally closed

Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	35-34235-K16-xxx-HAZ	35-38235-K16-xxx-HAZ
120 208V	3P+N+G	35-34237-K16-xxx-HAZ	35-38237-K16-xxx-HAZ
125V	1P+N+G	35-34175-K07-xxx-HAZ	35-38175-K07-xxx-HAZ
125 250V	2P+N+G	35-34176-K07-xxx-HAZ	35-38176-K07-xxx-HAZ
208V	2P+G	35-34232-K16-xxx-HAZ	35-38232-K16-xxx-HAZ
208V	3P+G	35-34233-K16-xxx-HAZ	35-38233-K16-xxx-HAZ
250V	2P+G	35-34172-K07-xxx-HAZ	35-38172-K07-xxx-HAZ
250V	3P+G	35-34173-K07-xxx-HAZ	35-38173-K07-xxx-HAZ
277V	1P+N+G	35-34245-K04-xxx-HAZ	35-38245-K04-xxx-HAZ
277 480V	3P+N+G	35-34247-K04-xxx-HAZ	35-38247-K04-xxx-HAZ
347 600V	3P+N+G	35-34187-K14-xxx-HAZ	35-38187-K14-xxx-HAZ
480V	2P+G	35-34242-K04-xxx-HAZ	35-38242-K04-xxx-HAZ
480V	3P+G	35-34243-K04-xxx-HAZ	35-38243-K04-xxx-HAZ
600V	2P+G	35-34182-K14-xxx-HAZ	35-38182-K14-xxx-HAZ
600V	3P+G	35-34183-K14-xxx-HAZ	35-38183-K14-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DR50 + 2 aux contacts

DR50 recept 3P+G = 35-34243-K04-972-HAZ

480V DR50 with no options

DR50 recept 3P+G = 35-34243-K04-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 3 Auxiliary/Pilot Contacts

Recept # - 973

With 3 Auxiliary/Pilot Contacts

Inlet # - 973

With 4 Auxiliary/Pilot Contacts

Recept # - 974

With 4 Auxiliary/Pilot Contacts

Inlet # - 974

Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

Feature Spotlight – Screw-Type Locking Pawl

- Listing Requirement**
Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DR50 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug in the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 3

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
	1/2"	553P0N05	5K3P0N05
	3/4"	553P0N07	5K3P0N07
	1"	553P0N10	5K3P0N10
	1 1/4"	553P0N12	5K3P0N12

For available cord grips, see pg 166.

POLY HANDLE w/Cable Range

	.39 - 1.18"	553P0D30
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Cable Range	NPT	Cable Range	NPT
.312 - .625"	1/2"	.660 - 1.000"	1"
.438 - .812"	3/4"	.875 - 1.375"	1 1/4"

NPT sizes are determined by the cable diameter and third party cord grip.

BOXES

POLY ANGLE WITH METAL BOX w/NPT

	30°	1/2"	753C3N05	* Interior volume with receptacle installed.
	30°	3/4"	753C3N07	
	30°	1"	753C3N10	
	30°	1 1/4"	753C3N12	

* 29.6 in³

METAL ANGLE WITH METAL BOX w/NPT

	30°	1/2"	7K3C3N05	* Interior volume with receptacle installed.
	30°	3/4"	7K3C3N07	
	30°	1"	7K3C3N10	
	30°	1 1/4"	7K3C3N12	

* 29.6 in³

POLY ANGLE WITH LARGER METAL BOX w/NPT

	70°	1/2"	753C7N05	* Interior volume with receptacle installed.
	70°	3/4"	753C7N07	
	70°	1"	753C7N10	
	70°	1 1/4"	753C7N12	
	70°	1 1/2"	753C7N15	

* 170.0 in³

METAL ANGLE WITH METAL BOX w/NPT

	70°	1/2"	7K3C7N05	* Interior volume with receptacle installed.
	70°	3/4"	7K3C7N07	
	70°	1"	7K3C7N10	
	70°	1 1/4"	7K3C7N12	

* 27.7 in³

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

ANGLES

POLY ANGLE

	30°	553M3
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METAL ANGLE

	0°	5K3M0
---	----	-------

	30°	5K3M3
---	-----	-------

	70°	5K3M7
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MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES

	61-6A346	Set of Two (2) Recommended for easier connector closure.
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PROTECTIVE INLET/PLUG CAP

	31-3A426	For Inlets/Plugs Only.
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RECEPTACLE LOCKING PIN

	LP-843
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Notes: For Zone 2 DR dimensions refer to DR dimensions on pgs 99-100.

DR250 Hazardous Location Plugs & Receptacles – 250 A

Devices rated for hazardous locations are not returnable.

SPC Ratings

- Voltage**
600 VAC
- Current Interruption Capability**
Not for current interrupting
- Short Circuit Rating**
10kA Withstand
Testing was performed with RK1 current limiting fuses sized at 100% of the devices ampacity rating.
- Environmental Ratings**
Type 4X
- Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 4 AWG Max 4/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Applicable Standards**
CSA C22.2 No. 182.1-07
C22.2 No. 213-M1987
- Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)

Inlet (male)

Easy Closing Mechanism



Standard Hazardous Location DR250 lid is normally closed and opens to 90°

Don't forget to add installation accessories to your order

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	36-24235-K16-xxx-HAZ	36-28235-K16-xxx-HAZ
120 208V	3P+N+G	36-24237-K16-xxx-HAZ	36-28237-K16-xxx-HAZ
125V	1P+N+G	36-24035-K07-xxx-HAZ	36-28035-K07-xxx-HAZ
125 250V	2P+N+G	36-24036-K07-xxx-HAZ	36-28036-K07-xxx-HAZ
208V	2P+G	36-24232-K16-xxx-HAZ	36-28232-K16-xxx-HAZ
208V	3P+G	36-24233-K16-xxx-HAZ	36-28233-K16-xxx-HAZ
250V	2P+G	36-24032-K07-xxx-HAZ	36-28032-K07-xxx-HAZ
250V	3P+G	36-24033-K07-xxx-HAZ	36-28033-K07-xxx-HAZ
277V	1P+N+G	36-24245-K04-xxx-HAZ	36-28245-K04-xxx-HAZ
277 480V	3P+N+G	36-24247-K04-xxx-HAZ	36-28247-K04-xxx-HAZ
347 600V	3P+N+G	36-24027-K14-xxx-HAZ	36-28027-K14-xxx-HAZ
480V	2P+G	36-24242-K04-xxx-HAZ	36-28242-K04-xxx-HAZ
480V	3P+G	36-24243-K04-xxx-HAZ	36-28243-K04-xxx-HAZ
600V	2P+G	36-24022-K14-xxx-HAZ	36-28022-K14-xxx-HAZ
600V	3P+G	36-24023-K14-xxx-HAZ	36-28023-K14-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Part Number Example

480V DR250 + 2 aux contacts

DR250 recept 3P+G = 36-24243-K04-972-HAZ

480V DR250 with no options

DR250 recept 3P+G = 36-24243-K04-HAZ

Receptacle Options

Suffix

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts

Recept # - 972

With 2 Auxiliary/Pilot Contacts

Inlet # - 972

With 4 Auxiliary/Pilot Contacts

Recept # - 174

With 3 Auxiliary/Pilot Contacts

Inlet # - 174

With 6 Auxiliary/Pilot Contacts

Recept # - 976

With 4 Auxiliary/Pilot Contacts

Inlet # - 976

Normally Open Lid Configuration

Recept # - NO

With No Lockout Hole

Inlet # - A155

180° Opening Lid

Recept # - 180

Feature Spotlight – Screw-Type Locking Pawl

- Listing Requirement**
Users must tighten screw to lock the plug in the mated position



Zone 2/Division 2 DR250 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 6

Accessories rated for hazardous locations are not returnable.

HANDLES

HANDLE w/NPT	Part # Metal
1"	5K6P0N10
1 1/4"	5K6P0N12
1 1/2"	5K6P0N15
2"	5K6P0N20
2 1/2"	5K6P0N25
3"	5K6P0N30

For available cord grips, see pg 166.

SANTOPRENE HANDLE w/Cable Range	
 IP66/IP67	
.984 - 1.378"	556P0D35
1.378 - 1.772"	556P0D45
1.772 - 1.929"	556P0D49

BOXES

METAL ANGLE WITH METAL BOX w/NPT	Part #
 60° 1 1/2"	7K6C6N15
60° 2"	7K6C6N20
60° 2 1/2"	7K6C6N25

* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

i

Cable Range	NPT	Cable Range	NPT
.660 - 1.000"	1"	1.190 - 2.438"	2"
.875 - 1.375"	1 1/4"	2.062 - 2.438"	2 1/2"
.890 - 1.812"	1 1/2"	2.438 - 2.812"	3"

NPT sizes are determined by the cable diameter and third party cord grip.

ANGLES

METAL ANGLE	
 0°	5K6M0
 60°	5K6M6

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP		
	39-2A426	For Inlets/Plugs Only.
PADLOCKABLE INLET/PLUG CAP		
	DS2MC	Aluminum – For Inlets/Plugs Only -A155 suffix required to maintain water ingress protection.
CORD GRIP with MESH		
	see pg 165	
RECEPTACLE LOCKING PIN		
	LP-843	

HAZARDOUS
LOCATION

Notes: For Zone 2 DR dimensions refer to DR dimensions on pgs 99-100.

Hazardous Location Plugs & Receptacles

20 A – 200 A

Devices rated for hazardous locations are not returnable.

SP US Ratings

- **Max Amperage & Voltage**
200 A, 250 VDC
- **Current Interruption Capability**
Not for current interrupting
- **Environmental Ratings**
Type 4X
- **Temperature Range**
Min -40°F/Max 104°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
DSDC1 Min 14 AWG Max 8 AWG
DSDC3 Min 14 AWG Max 4 AWG
DSDC6 Min 10 AWG Max 2 AWG
DSDC9 Min 4 AWG Max 2/0 AWG
DSDC2 Min 4 AWG Max 4/0 AWG
Based on THHN wire sizes
- **Certifications**
CSA C22.2 No. 182.1-07
CSA C22.2 No. 213-M1987
- **Hazardous Ratings**
Class I, Division 2, Groups ABCD, T6
Class I, Zone 2, IIC

Receptacle (female)



Inlet (male)



Don't forget to add installation accessories to your order

Hazardous Location DSDC lid is normally closed

Voltage	Polarity	Part #			Part #	
		Poly	Metal		Poly	Metal
DSDC1	130V/20 A	2P+G	35-14109-xxx-HAZ	-	35-18109-xxx-HAZ	-
DSDC3	130V/30 A	2P+G	35-34109-xxx-HAZ	-	35-38109-xxx-HAZ	-
DSDC6	130V/60 A	2P+G	35-64109-xxx-HAZ	36-64109-xxx-HAZ	35-68109-xxx-HAZ	36-68109-xxx-HAZ
DSDC9	130V/100 A	2P+G	-	36-94109-xxx-HAZ	-	36-98109-xxx-HAZ
DSDC2	130V/200 A	2P+G	-	36-24109-xxx-HAZ	-	36-28109-xxx-HAZ
DSDC1	250V/20 A	2P+G	35-14209-xxx-HAZ	-	35-18209-xxx-HAZ	-
DSDC3	250V/30 A	2P+G	35-34209-xxx-HAZ	-	35-38209-xxx-HAZ	-
DSDC6	250V/60 A	2P+G	35-64209-xxx-HAZ	36-64209-xxx-HAZ	35-68209-xxx-HAZ	36-68209-xxx-HAZ
DSDC9	250V/100 A	2P+G	-	36-94209-xxx-HAZ	-	36-98209-xxx-HAZ
DSDC2	250V/200 A	2P+G	-	36-24209-xxx-HAZ	-	36-28209-xxx-HAZ

The xxx represents any and all device options; if no options are needed, the xxx suffix should be omitted.

Receptacle Options Part

Normally Open Lid Recept # - NO

180° Opening Lid Recept # - 180

Metal casings only.

Inlet Options Part

With no Lockout Hole Inlet # -A155

Part Number Example

250V DSDC6 + 180° Opening Lid

DSDC6 Metal recept 2P+G = 36-64209-180-HAZ

250V DSDC6 with no options

DSDC6 Metal recept 2P+G = 36-64209-HAZ

Feature Spotlight – Screw-Type Locking Pawl



Zone 2/Division 2 DSDC receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

See pages 233-242 for detailed information on these options

INSTALLATION ACCESSORIES

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES



Poly Handle



Poly Handle

For Zone 2 DSDC dimensions use the cross reference chart below and refer to DS dimensions on pgs 55-56.

	Cable Range	Poly Handle	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT
DSDC1	.20 - .83"	552P0D21	552P0N05	552P0N07	552P0N10	552P0N12	-
DSDC3	.39 - 1.18"	553P0D30	553P0N05	553P0N07	553P0N10	553P0N12	-
DSDC6	.51 - 1.38"	554P0D35	554P0N05	554P0N07	554P0N10	554P0N12	554P0N15



Metal Handle



Metal Handle

Dimensions	
DSDC1	same as DS20
DSDC3	same as DS30
DSDC6	same as DS60
DSDC9	same as DS100
DSDC2	same as DS200

DSDC1, 3, 6 shown

DSDC9, 2 shown

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT
DSDC1	5K2P0N05	5K2P0N07	5K2P0N10	5K2P0N12	-	-	-	-
DSDC3	5K3P0N05	5K3P0N07	5K3P0N10	5K3P0N12	-	-	-	-
DSDC6	5K4P0N05	5K4P0N07	5K4P0N10	5K4P0N12	5K4P0N15	-	-	-
DSDC9	-	5K5P0N07	5K5P0N10	5K5P0N12	5K5P0N15	5K5P0N20	-	-
DSDC2	-	-	5K6P0N10	5K6P0N12	5K6P0N15	5K6P0N20	5K6P0N25	5K6P0N30



• For available cord grips, see pg 166.



Poly Angle 30° with Metal Box



Metal Angle 30° with Metal Box (DSDC2 60°)



DSDC9, 2 shown

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	752C3N05	752C3N07	752C3N10	752C3N12	-	-	7K2C3N05	7K2C3N07	7K2C3N10	7K2C3N12	-	-	-
DSDC3	753C3N05	753C3N07	753C3N10	753C3N12	-	-	7K3C3N05	7K3C3N07	7K3C3N10	7K3C3N12	-	-	-
DSDC6	-	-	754C3N10	754C3N12	754C3N15	754C3N20	-	-	7K4C3N10	7K4C3N12	7K4C3N15	7K4C3N20	-
DSDC9	-	-	-	-	-	-	-	-	-	7K5C3N12	7K5C3N15	7K5C3N20	7K5C3N25
DSDC2	-	-	-	-	-	-	-	-	-	-	7K6C6N15	7K6C6N20	7K6C6N25



Poly Angle 70° with Larger Metal Wall Box w/NPT



Metal Angle 70° with Metal Box w/NPT

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	752C7N05	752C7N07	752C7N10	752C7N12	752C7N15	DSDC6	7K4C7N10	7K4C7N12	7K4C7N15	7K4C7N20
DSDC3	753C7N05	753C7N07	753C7N10	753C7N12	753C7N15	DSDC9	-	7K5C7N12	7K5C7N15	7K5C7N20

BOXES

ANGLES



Poly 30° Angle



Metal 30° Angle



Metal 70° Angle



Metal Straight Adapter

	Poly 30° Angle	Metal 30° Angle	Metal 70° Angle	Metal Straight Adapter
DSDC1	552M3	5K2M3	-	5K2M0
DSDC3	553M3	5K3M3	5K3M7	5K3M0
DSDC6	554M3	5K4M3	5K4M7	5K4M0
DSDC9	-	5K5M3	5K5M7	5K5M0
DSDC2	-	5K6M6 (60°)	-	5K6M0



* Set of Two (2)



For Inlets/Plugs Only



For Inlets/Plugs Only



Cord Grip



Receptacle Locking Pin

MISC. ACCESSORIES

Finger Drawplates	Protective Inlet/Plug Cap	Padlockable Aluminum Cap	Cord Grip	Receptacle Locking Pin
61-3A346	31-1A426	-	see pg 166	LP-843
61-6A346	31-3A426	-	see pg 166	LP-843
31-6A346	31-6A426	DS6MC	see pg 166	LP-843
**	31-9A426	DS9MC	see pg 166	LP-843
**	39-2A426	DS2MC	see pg 166	LP-843

* Recommended for easier connector closure.

** An easy closing mechanism is standard on DSDC9 and DSDC2.

DX Hazardous Location Plug and Receptacle

Main Advantages

- ▶ Rugged Construction, cost effective design
- ▶ Rated for Zone 1 and Zone 21 applications



- | | | | |
|----------------------------|--------|--------------|--------|
| ▶ Features & Ratings | p. 212 | ▶ DX3 | p. 216 |
| ▶ Certifications & Testing | p. 213 | ▶ DX6 | p. 217 |
| ▶ Operation | p. 214 | ▶ DX9 | p. 218 |
| ▶ DX1 | p. 215 | ▶ Dimensions | p. 219 |

PRODUCT FEATURES

Dead Front

The 'dead' load-side switching contacts block access to the receptacle and are locked in the open position until an appropriate mating plug is fully inserted. This prevents unintended access to live parts and ensures user safety.

ON & OFF Positions when Mated

The operation of the switching mechanism allows the circuit to be disconnected without removing the plug.

Normally Closed Receptacle Lid

The lid automatically closes to a pre-latched position when the plug is removed. This prevents the entry of dust and debris. The lid must be manually latched to maintain IP 65 protection.

Heavy Duty Aluminum Casing

All components are enclosed in rugged copper free aluminum housings for maximum durability and protection.

Arc Isolation Chamber

Minimizes gas/dust volume present during arcing, withstands internal pressure due to ignition of it and isolates the ignition from the outside environment.

Spring Operated Switching Mechanism

An integral switching mechanism ensures quick-make, quick-break operation, independent of the motion of the user.

Silver-Nickel Butt Contacts

Contact design provides a superior connection, with maximum conductivity, the ability to withstand arcing and oxidation, excellent wear resistance, and a long operating life. A wiping motion during operation also provides a self-cleaning action.

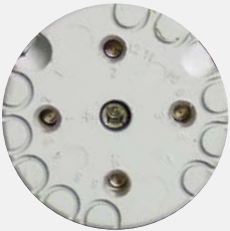


General Ratings

Amperage	20 to 125 A
Voltage	750 VAC
Frequency	50-400 Hz
Environmental	IP65
Temperature	min -13°F/max 140°F* (DX1/DX3) min -40°F/max 140°F* (DX6/DX9)

Highlighted Feature

Dead Front



The dead front on the DX receptacle provides protection from accidental tool and wire insertion.

Operating Instructions



When a DX is connected there is total safety.



Pressing the pawl while turning the plug about 30° counterclockwise causes the circuit to be broken.



Press the pawl while withdrawing the plug from the receptacle. This is done in complete safety because the circuit is already dead.



The plug and receptacle are separated. The safety shutter prevents access to live parts.

To reconnect, insert plug into receptacle fully, then twist the plug approximately 30° clockwise to make the circuit.

DX Certifications

Hazardous Duty Certification

ATEX and IECEx



II 2 G/D Ex de IIC tD A21

II – Indicates suitability for installation in surface applications (as opposed to underground mine applications).

2 – Indicates suitability for use where a high level of protection is required and where the presence of an explosive atmosphere is likely to occur (Zone 1 and Zone 21 environments).

G/D – Indicates suitability for installation in areas that may contain flammable gases, vapors/mists, or dusts.

Ex de – Protection method for gas atmospheres indicating that explosion protection is provided with (e) increased safety in the conductor termination area, and (d) explosion proof chambers for making and breaking the current that can withstand the pressure of internal ignition and that prevent arcs, flame or other ignition events from being communicated to the surrounding atmosphere.

IIC – Indicates suitability for installation in areas where exposure to any type of gas, including the most dangerous subdivision C gases may occur.

tD – Protection method for dust atmospheres indicating that explosion protection is provided by the type of enclosure (casing) used.

A21 – Indicates a dust tight enclosure (IP6x) is used to achieve a Zone 21 rating.

ATEX & IECEx certification was performed by LCIE.

* Temperature ratings vary depending on product and ambient temperature. See specific product section for temperature ratings.

Electrical Performance Testing

Key Performance Tests Passed				
Model	Mechanical Endurance	Electrical Endurance ¹	Overload Testing ²	Dielectric Test
DX1	-	5000 Operations	50 Operations	2 x V (rated) + 1000V
DX3	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX6	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX9	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V

¹ @ 100% of rated current and voltage and 0.6 power factor.

² @ 125% of rated current, 110% of rated voltage, & 0.6 power factor.

DX complies with

ATEX	2014/35/EV Directive
IEC/EN	60079-0
	60079-1
	60079-7
	60079-31

DX Operation

Connection

1



Insertion of the Plug

As the plug contact is inserted, it engages and depresses the 'dead' switching contact.

This releases the locking mechanism. The switching contact is free to operate.

2



Charging the Operating Spring

Clockwise rotation of the inserted plug winds the operating spring and rotates the switching contact into position to engage with the live receptacle contact.

3



Making the Circuit

With the final few degrees of rotation, the switching contact is released and force from the spring quickly drives it into engagement with the live receptacle contact.

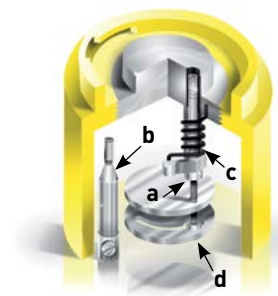
Disconnection



After depressing the pawl, the plug is rotated in a counter-clockwise direction. This frees the switching contact for operation and the release of the remaining spring tension causes a quick breaking of the contacts. The plug may now be removed, if desired.



Receptacle with Plug Disconnected



- a. **Switching Contact**
Shown in the open (dead) position
- b. **'Live' Receptacle Contact**
Accessibility is denied
- c. **Operating Spring**
Shown with tension released
- d. **Mechanical Locking Device**
Blocks contact operation

DX1 Hazardous Location Plugs & Receptacles – 20 A

Devices rated for hazardous locations are not returnable.

Ratings

- **Max Amperage & Voltage**
20 A, 750 VAC
- **Environmental Ratings**
IP65
- **Temperature Range**
Min -13°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
* Based on THHN wire sizes
- **Applicable Standards**
ATEX, IECEx
- **Hazardous Location Ratings**

MARECHAL ELECTRIC MAROMME
II2 G/D Ex de IIC tD A21
-25°C ≤ Ta ≤ +60°C T5 T84°C
-25°C ≤ Ta ≤ +50°C T6 T74°C
IECEx LCI 09.0014/LCIE 05 ATEX 6127

XXX Suffix/Cable Range

XXX (Suffix #)	Cable Range
-20M	.31" - .51"
-25M	.35" - .63"

XX Suffix/NPT Size

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

NPT sizes are determined by the cable diameter and third party cord grip.

Accessories

Protective Cap



For Male
Devices Only

DX1 26-2A126

Metal Wall Box



NPT	Part #
1/2"	26-2A023-12
3/4"	26-2A023-34
1"	26-2A023-1

Plug (Male inlet w/handle)



Inlet w/cap on box (Male)



or

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	26-21165-XXX	26-26165-XX
125V	1P+N+G	26-21075-XXX	26-26075-XX
208V	2P+G	26-21162-XXX	26-26162-XX
208V	3P+G	26-21163-XXX	26-26163-XX
208V	3P+N+G	26-21167-XXX	26-26167-XX
250V	2P+G	26-21072-XXX	26-26072-XX
250V	3P+G	26-21073-XXX	26-26073-XX
250V	2P+N+G	26-21076-XXX	26-26076-XX
277V	1P+N+G	26-21045-XXX	26-26045-XX
480V	2P+G	26-21042-XXX	26-26042-XX
480V	3P+G	26-21043-XXX	26-26043-XX
480V	3P+N+G	26-21047-XXX	26-26047-XX
600V	3P+G	26-21143-XXX	26-26143-XX

Connector

(female recept w/handle)



Receptacle on box

(female)



Receptacle

(female)



or

or

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-23165-XXX	26-20165-XX	26-24165
125V	1P+N+G	26-23075-XXX	26-20075-XX	26-24075
208V	2P+G	26-23162-XXX	26-20162-XX	26-24162
208V	3P+G	26-23163-XXX	26-20163-XX	26-24163
208V	3P+N+G	26-23167-XXX	26-20167-XX	26-24167
250V	2P+G	26-23072-XXX	26-20072-XX	26-24072
250V	3P+G	26-23073-XXX	26-20073-XX	26-24073
250V	2P+N+G	26-23076-XXX	26-20076-XX	26-24076
277V	1P+N+G	26-23045-XXX	26-20045-XX	26-24045
480V	2P+G	26-23042-XXX	26-20042-XX	26-24042
480V	3P+G	26-23043-XXX	26-20043-XX	26-24043
480V	3P+N+G	26-23047-XXX	26-20047-XX	26-24047
600V	3P+G	26-23143-XXX	26-20143-XX	26-24143

DX3 Hazardous Location Plugs & Receptacles – 32 A

Devices rated for hazardous locations are not returnable.

Plug
(Male inlet w/handle)



or

Inlet w/cap on box
(Male)



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	26-31165-XXX	26-36165-XX
125V	1P+N+G	26-21075-XXX	26-26075-XX
208V	2P+G	26-31162-XXX	26-36162-XX
208V	3P+G	26-21163-XXX	26-26163-XX
208V	3P+N+G	26-31167-XXX	26-36167-XX
250V	2P+G	26-21072-XXX	26-26072-XX
250V	3P+G	26-31073-XXX	26-36073-XX
250V	2P+N+G	26-21076-XXX	26-26076-XX
277V	1P+N+G	26-31045-XXX	26-36045-XX
480V	2P+G	26-21042-XXX	26-26042-XX
480V	3P+G	26-31043-XXX	26-36043-XX
480V	3P+N+G	26-21047-XXX	26-26047-XX
600V	3P+G	26-31143-XXX	26-36143-XX

Ratings

- **Max Amperage & Voltage**
32 A, 750 VAC
- **Environmental Ratings**
IP65
- **Temperature Range**
Min -13°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 14 AWG Max 8 AWG
* Based on THHN wire sizes
- **Applicable Standards**
ATEX, IECEx
- **Hazardous Location Ratings**

MARECHAL ELECTRIC MAROMME
IIC G/D Ex de IIC tD A21
-25°C ≤ Ta ≤ +60°C T5 T84°C
-25°C ≤ Ta ≤ +50°C T6 T74°C
IECEx LCI 09.0014/LCIE 05 ATEX 6127

XXX Suffix/Cable Range

XXX (Suffix #)	Cable Range
-25M	.35" - .63"
-32M	.47" - .83"

Connector
(female recept w/handle)



Receptacle on box
(female)

or



Receptacle
(female)

or



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-33165-XXX	26-30165-XX	26-34165
125V	1P+N+G	26-33075-XXX	26-30075-XX	26-34075
208V	2P+G	26-33162-XXX	26-30162-XX	26-34162
208V	3P+G	26-33163-XXX	26-30163-XX	26-34163
208V	3P+N+G	26-33167-XXX	26-30167-XX	26-34167
250V	2P+G	26-33072-XXX	26-30072-XX	26-34072
250V	3P+G	26-33073-XXX	26-30073-XX	26-34073
250V	2P+N+G	26-33076-XXX	26-30076-XX	26-34076
277V	1P+N+G	26-33045-XXX	26-30045-XX	26-34045
480V	2P+G	26-33042-XXX	26-30042-XX	26-34042
480V	3P+G	26-33043-XXX	26-30043-XX	26-34043
480V	3P+N+G	26-33047-XXX	26-30047-XX	26-34047
600V	3P+G	26-33143-XXX	26-30143-XX	26-34143

XX Suffix/NPT Size

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

NPT sizes are determined by the cable diameter and third party cord grip.

Accessories

Protective Cap



For Male
Devices Only

DX3

26-3A126

Metal Wall Box



NPT

Part #

1/2"

26-3A023-12

3/4"

26-3A023-34

1"

26-3A023-1

DX6 Hazardous Location Plugs & Receptacles – 63 A

Devices rated for hazardous locations are not returnable.

Ratings

- **Max Amperage & Voltage**
63 A, 750 VAC
- **Environmental Ratings**
IP65/IP66
- **Temperature Range**
Min -40°F/Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 6 AWG Max 1/0 AWG
* Based on THHN wire sizes
- **Applicable Standards**
ATEX, IECEx
- **Hazardous Location Ratings**

MARECHAL ELECTRIC MAROMME
II2 G/D Ex de IIC tD A21
-40°C ≤ Ta ≤ +60°C T5 T90°C
-40°C ≤ Ta ≤ +50°C T6 T80°C
IECEx LCI 09.0015/LCIE 04 ATEX 6038

XXX Suffix/Cable Range

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"

XX Suffix/NPT Size

NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

NPT sizes are determined by the cable diameter and third party cord grip.

Accessories

Protective Cap



For Male
Devices Only

DX6 **26-6A126**

Metal Wall Box



NPT	Part #
1"	26-6A023-1
1 1/4"	26-6A023-114
1 1/2"	26-6A023-112
2"	26-6A023-2

Plug (Male inlet w/handle)



Inlet w/cap on box (Male)



or

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	26-61165-XXX	26-66165-XX
125V	1P+N+G	26-61075-XXX	26-66075-XX
208V	2P+G	26-61162-XXX	26-66162-XX
208V	3P+G	26-61163-XXX	26-66163-XX
208V	3P+N+G	26-61167-XXX	26-66167-XX
250V	2P+G	26-61072-XXX	26-66072-XX
250V	3P+G	26-61073-XXX	26-66073-XX
250V	2P+N+G	26-61076-XXX	26-66076-XX
277V	1P+N+G	26-61045-XXX	26-66045-XX
480V	2P+G	26-61042-XXX	26-66042-XX
480V	3P+G	26-61043-XXX	26-66043-XX
480V	3P+N+G	26-61047-XXX	26-66047-XX
600V	3P+G	26-61143-XXX	26-66143-XX

Connector (female recept w/handle)



Receptacle on box (female)



Receptacle (female)



or

or

North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-63165-XXX	26-60165-XX	26-64165
125V	1P+N+G	26-63075-XXX	26-60075-XX	26-64075
208V	2P+G	26-63162-XXX	26-60162-XX	26-64162
208V	3P+G	26-63163-XXX	26-60163-XX	26-64163
208V	3P+N+G	26-63167-XXX	26-60167-XX	26-64167
250V	2P+G	26-63072-XXX	26-60072-XX	26-64072
250V	3P+G	26-63073-XXX	26-60073-XX	26-64073
250V	2P+N+G	26-63076-XXX	26-60076-XX	26-64076
277V	1P+N+G	26-63045-XXX	26-60045-XX	26-64045
480V	2P+G	26-63042-XXX	26-60042-XX	26-64042
480V	3P+G	26-63043-XXX	26-60043-XX	26-64043
480V	3P+N+G	26-63047-XXX	26-60047-XX	26-64047
600V	3P+G	26-63143-XXX	26-60143-XX	26-64143

DX9 Hazardous Location Plugs & Receptacles – 125 A

Devices rated for hazardous locations are not returnable.

Plug
(Male inlet w/handle)



or

Inlet w/cap on box
(Male)



North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal
120V	1P+N+G	26-91165-XXX	26-96165-XX
125V	1P+N+G	26-91075-XXX	26-96075-XX
208V	2P+G	26-91162-XXX	26-96162-XX
208V	3P+G	26-91163-XXX	26-96163-XX
208V	3P+N+G	26-91167-XXX	26-96167-XX
250V	2P+G	26-91072-XXX	26-96072-XX
250V	3P+G	26-91073-XXX	26-96073-XX
250V	2P+N+G	26-91076-XXX	26-96076-XX
277V	1P+N+G	26-91045-XXX	26-96045-XX
480V	2P+G	26-91042-XXX	26-96042-XX
480V	3P+G	26-91043-XXX	26-96043-XX
480V	3P+N+G	26-91047-XXX	26-96047-XX
600V	3P+G	26-91143-XXX	26-96143-XX

Ratings

- **Max Amperage & Voltage**
125 A, 750 VAC
- **Environmental Ratings**
IP65/IP66
- **Temperature Range**
Min -40°F / Max 140°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 2 AWG Max 2/0 AWG
* Based on THHN wire sizes
- **Applicable Standards**
ATEX, IECEx
- **Hazardous Location Ratings**

MARECHAL ELECTRIC MAROMME
II2 G/D Ex de IIC tD A21
-40°C ≤ Ta ≤ +60°C T5 T90°C
-40°C ≤ Ta ≤ +50°C T6 T80°C
IECEx LCI 09.0015/LCIE 04 ATEX 6038

XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"
-50M	.91" - 1.38"
-63M	1.42" - 1.89"
NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

NPT sizes are determined by the cable diameter and third party cord grip.

Accessories

Protective Cap



For Male
Devices Only

DX9

26-9A126

Metal Wall Box



NPT

Part #

1"

26-9A023-1

1 1/4"

26-9A023-114

1 1/2"

26-9A023-112

2"

26-9A023-2

Connector
(female recept w/handle)



Receptacle on box
(female)

or



or

Receptacle
(female)



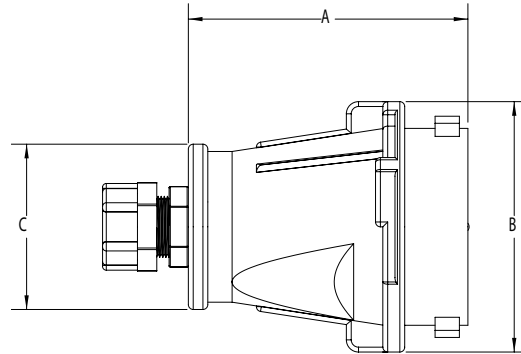
North American Configurations

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-93165-XXX	26-90165-XX	26-94165
125V	1P+N+G	26-93075-XXX	26-90075-XX	26-94075
208V	2P+G	26-93162-XXX	26-90162-XX	26-94162
208V	3P+G	26-93163-XXX	26-90163-XX	26-94163
208V	3P+N+G	26-93167-XXX	26-90167-XX	26-94167
250V	2P+G	26-93072-XXX	26-90072-XX	26-94072
250V	3P+G	26-93073-XXX	26-90073-XX	26-94073
250V	2P+N+G	26-93076-XXX	26-90076-XX	26-94076
277V	1P+N+G	26-93045-XXX	26-90045-XX	26-94045
480V	2P+G	26-93042-XXX	26-90042-XX	26-94042
480V	3P+G	26-93043-XXX	26-90043-XX	26-94043
480V	3P+N+G	26-93047-XXX	26-90047-XX	26-94047
600V	3P+G	26-93143-XXX	26-90143-XX	26-94143

DX DIMENSIONS Inlet – Provided in inches

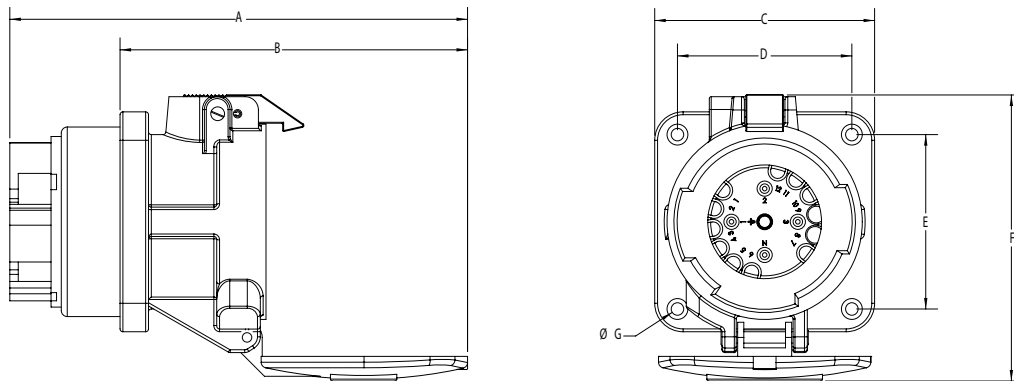
Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug



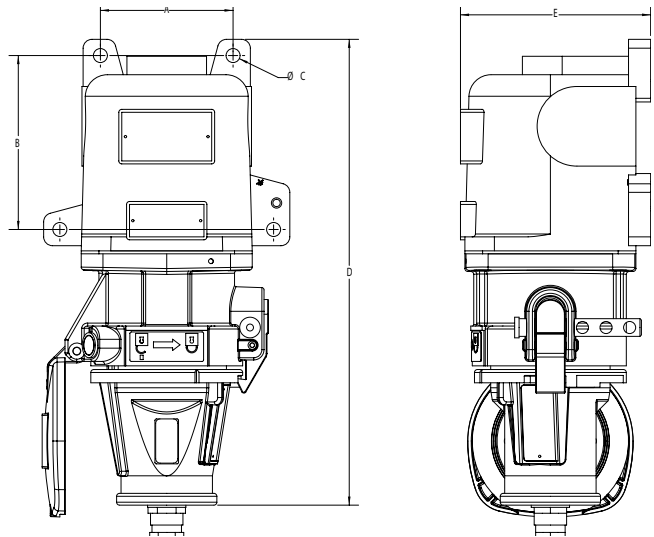
PRODUCT	A	B	C
DX20/DX30	4.53	4.06	2.68
DX60/DX100	8.66	5.75	3.94

Receptacle



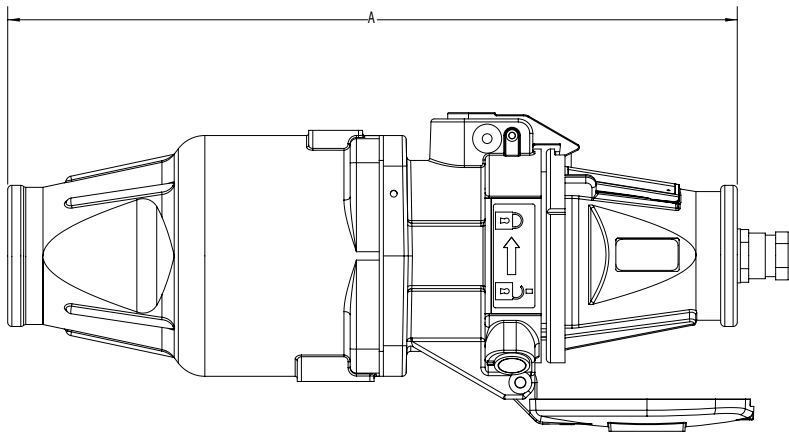
PRODUCT	A	B	C	D	E	F	ØG
DX20/DX30	9.51	7.22	4.57	3.62	3.62	5.94	0.26
DX60/DX100	15.30	11.67	6.3	4.8	4.8	7.95	0.35

Wall Box/ Receptacle/Plug



PRODUCT	A	B	C	D	øE
DX20/DX30	3.54	4.65	0.37	12.44	5.08
DX60/DX100	5.12	6.81	0.39	19.06	6.5

Plug/Connector



PRODUCT	A
DX20/DX30	13.84
DX60/DX100	21.14

MULTIPIN

Plugs & Receptacles

A large, dark silhouette of an oil pumpjack (jack-o'-lantern) against a bright, hazy orange background, suggesting a sunset or sunrise in an industrial setting. The pumpjack is positioned on the right side of the frame, with its long arm extending upwards and to the left. A chain-link fence is visible in the foreground, partially obscuring the base of the pumpjack.

Multipin plugs and receptacles rated for hazardous environments. Industrial duty casings withstand harsh environments and rough handling.



PXN12C P. 223

MULTIPIN CONNECTORS

- ATEX rated
- Up to 12 contacts
- Compact design
- Crimped or soldered contact



DXN25C P. 225

MULTIPIN CONNECTORS

- ATEX rated
- Up to 25 contacts
- Corrosion-free metal casing
- Crimped or soldered contacts



DXN37C P. 225

MULTIPIN CONNECTORS

- ATEX rated
- Up to 37 contacts
- Corrosion-free metal casing
- Crimped or soldered contacts

MULTIPIN PXN12c

PRODUCT FEATURES



Metal Casing

Provides excellent durability and protection.

IP65/IP66 Watertightness

Environmental rating is achieved as soon as the plug is latched to the receptacle. There is no additional rings to tighten.

Lid

Provides additional protection from harsh environments.

Recessed Contacts

Provides IP2X protection from live electrical parts.

Locking Provision

Turn triangular screw with special tool (provided) to prevent plug removal.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Silver-Nickel Contacts

Silver-nickel contact material provides superior conductivity, durability and corrosion resistance.

Hazardous Location Listings

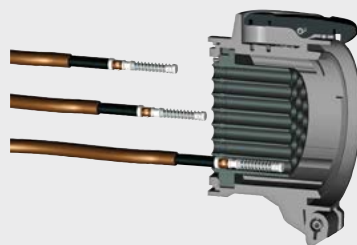
ATEX		
	II 2 G D	Ex e IIC Gb Ex tb IIIC Db
Suitable for Zone 1 & 2 (gas) 21 & 22 (dust)		
-40°C ≤ Ta ≤ +55°C		T5 T69°C
Ex ia or ib IIC T6 Gb		
IECEX LCIE 14.0041X/LCIE 07 ATEX 6070X		

Highlighted Feature

- Crimped Contacts**
 PXN12c devices now feature contacts that can be crimped or soldered. Each device is supplied with 13 contacts so that the product can be set up to suit application needs.

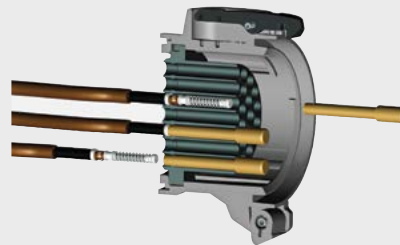
Simple Assembly and Disassembly

DSN37c shown



Assembly

To insert contacts when they have been wired is simple. Push wired contact into rear of insulator until it stops to complete the installation.



Disassembly

To remove, use the tool provided. Push tool from front onto contact until tool stops. Contact is then released at rear of insulator.

PXN12c Hazardous Location Multipin – 10 A

Devices rated for hazardous locations are not returnable.

Connector (female recept w/handle)



or

Receptacle/Angle (female)



or

Recept/Angle/Box (female)



Voltage	Polarity	Cable Range	Part # Metal	Part # Metal	Part # Metal
220V	11P+G	.35 - .63"	06-A3001-25M	06-A7001	06-A0001-25M
220V	11P+G	.47 - .82"	06-A3001	06-A7001	06-A0001

For international configurations (IEC/CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

Plug (male inlet w/handle)



or

Inlet/Angle (male)



or

Inlet/Angle/Box (male)



Voltage	Polarity	Cable Range	Part # Metal	Part # Metal	Part # Metal
220V	11P+G	.35 - .63"	06-A1001-25M	06-A9001	06-A6001-25M
220V	11P+G	.47 - .82"	06-A1001	06-A9001	06-A6001

For international configurations (IEC/CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

Ratings

- **Voltage**
220 VAC or VDC
- **Amperage Ratings**
10 A Not for disconnection of a live circuit
- **Environmental Ratings**
IP65/IP66
- **Temperature Range**
Min -40°F / Max 131°F
See pg 256 for temps below -15°F.
- **Wiring Capacity**
Min 16 AWG Max 14 AWG
* Based on THHN wiring connection type solder
- **Terminal Type**
Solder/Crimp
- **Applicable Standards**
ATEX, IECEx

ACCESSORIES

PROTECTIVE INLET/PLUG CAP



01-NA426

MULTI-CONTACT REMOVAL TOOL



61-CA593

EUROPEAN CRIMPING TOOL



61-CA500

CRIMPER TOOL (Greenlee or equal)



4CN30

BAG OF 13 FEMALE CONTACTS



01-AA213

Includes insulation sleeves and ferrules

BAG OF 13 MALE CONTACTS



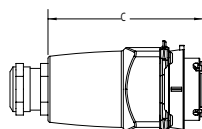
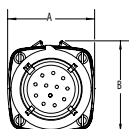
01-AA113

Includes insulation sleeves and ferrules

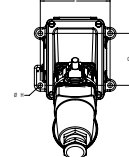
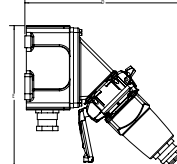
PXN12c DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Plug



Wall box/angle/receptacle/plug



PRODUCT	A	B	C	D	E	F	G	H
PXN12c	2.3	2.42	4.09	8.37	7.54	3.7	2.76	0.26

MULTIPIN DXN25c/DXN37c

PRODUCT FEATURES



Recessed Contacts

Provides IP2X protection from live electrical parts.

Metal Casing

Provides excellent durability and protection.

Lid

Provides additional protection from harsh environments.

Locking Pin

Locking Provision

For insertion of locking pin (or padlock) to prevent inadvertent disconnection.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Silver-Nickel Contacts

Silver-nickel contact material provides superior conductivity, durability and corrosion resistance.

IP66/IP67 Watertightness

Environmental rating is achieved as soon as the plug is latched to the receptacle. There is no additional ring to tighten.

Hazardous Location Listings

ATEX			
II 2 GD Ex e IIC Gb Ex tb IIIC Db Suitable for Zone 1 & 2 (gas) 21 & 22 (dust) Ex ia or ib IIC T6 Gb			
DXN25c	-40°C ≤ Ta ≤ +60°C	T5	T71°C
	-40°C ≤ Ta ≤ +40°C	T6	T51°C
IECEx LCIE 14.0040X/LCIE 09 ATEX 3050X			
DXN37c	-40°C ≤ Ta ≤ +55°C	T5	T76°C
	-40°C ≤ Ta ≤ +40°C	T6	T56°C
IECEx LCIE 14.0038X/LCIE 07 ATEX 6071X			

Highlighted Feature

• Crimped Contacts

DXN25c/DXN37c devices now feature contacts that can be crimped or soldered. Each device is supplied with 26 or 39 contacts so that the product can be set up to suit application needs.

Simple Assembly and Disassembly

DSN37c shown



Assembly

To insert contacts when they have been wired is simple. Push wired contact into rear of insulator until it stops to complete the installation.



Disassembly

To remove, use the tool provided. Push tool from front onto contact until tool stops. Contact is then released at rear of insulator.

DXN25C/37C Hazardous Location Multipin – 10 A

Devices rated for hazardous locations are not returnable.

Connector

(female recept w/handle)



or

Receptacle/Angle

(female)



or

Recept/Angle/Box

(female)



Voltage	Polarity	Cable Range	Part # Metal	Part # Metal	Part # Metal
440V	24P+G	.47 - .825"	36-D3002-32M	36-D7002	36-D0002-32M
440V	24P+G	.63 - 1.063"	36-D3002	36-D7002	36-D0002
220V	36P+G	.47 - .825"	36-C3003-32M	36-C7003	36-C0003-32M
220V	36P+G	.63 - 1.063"	36-C3003	36-C7003	36-C0003

For international configurations (IEC/CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

Plug

(male inlet w/handle)



or

Inlet/Angle

(male)



or

Inlet/Angle/Box

(male)



Voltage	Polarity	Cable Range	Part # Metal	Part # Metal	Part # Metal
440V	24P+G	.47 - .825"	36-D1002-32M	36-D9002	36-D6002-32M
440V	24P+G	.63 - 1.063"	36-D1002	36-D9002	36-D6002
220V	36P+G	.47 - .825"	36-C1003-32M	36-C9003	36-C6003-32M
220V	36P+G	.63 - 1.063"	36-C1003	36-C9003	36-C6003

For international configurations (IEC/CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

ACCESSORIES

MULTI-CONTACT REMOVAL TOOL



61-CA593

PLUG CAP



31-3A426

EUROPEAN CRIMPING TOOL



61-CA500

CRIMPER TOOL (Greenlee or equal)



4CN30

BAG OF 13 FEMALE CONTACTS



01-AA213

Includes insulation sleeves and ferrules

BAG OF 13 MALE CONTACTS



61-CA113

Includes insulation sleeves and ferrules

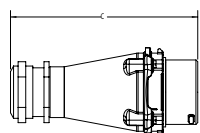
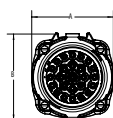
Ratings

- Voltage**
440 VAC or VDC DXN25c
230 VAC or VDC DXN37c
- Amperage Ratings**
10 A DXN25c Not for disconnection of a live circuit
10 A DXN37c Not for disconnection of a live circuit
- Environmental Ratings**
IP66/IP67
- Temperature Range**
Min -40°F / Max 131°F – (DXN25c)
Min -40°F / Max 131°F – (DXN37c)
See pg 256 for temps below -15°F.
- Wiring Capacity**
Min 16 AWG Max 14 AWG
* Based on THHN wiring connection type solder
- Terminal Type**
DXN25c: Solder/Crimp
DXN37c: Solder/Crimp
- Applicable Standards**
ATEX, IECEx

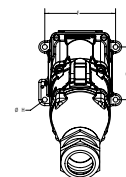
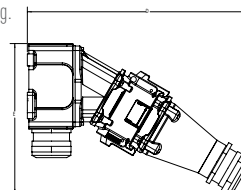
DXN25C/37C DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

plug



wall box/angle/receptacle/plug



PRODUCT	A	B	C	D	E	F	G	ØH
DXN25C/DXN37C	3.17	3.35	7.26	11.64	7.83	3.7	2.76	0.26

SPeX

Hazardous Location Single Pole Plug and Receptacle



Main Advantages

- ▶ Mechanical keying system prevents intermating of phases
- ▶ Reliable mechanical and Electrical interlocking
- ▶ Automatic IP65/IP66 when plug is mated



- ▶ Features & Ratings p. 228
- ▶ SPeX p. 229
- ▶ Dimensions p. 230

PRODUCT FEATURES



Hazardous location rating is based on mandatory use of pilot circuit to make and break load on phase contacts.



Operating Instructions



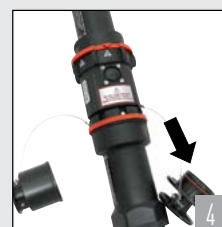
To connect, insert the plug into the receptacle until a click is heard. Rotation of the plug in either direction engages a locking finger, which prevents further rotation.



To close the pilot circuit and mechanically lock the plug into the receptacle, turn the ring on the receptacle until the "1" lines up with the arrow. This turns the power on.



To disconnect, open the pilot circuit and unlock the plug by turning the ring until the "0" is aligned with the arrow. The power is now off.



Press firmly on the latch release button and simultaneously pull on the inlet. A slight rotation of the plug may also be required.

Hazardous Location Listings (CSA or ATEX)

CSA	ATEX
Class I, Division 2, Group ABCD	II2 G D Ex e IIC T* Gb Ex tIIIC T* Db IP65/IP66
Class II, Division 1 Groups EFG; Class III, Division 1	Suitable for Zone 1 & 2 (gas) 21 & 22 (dust)
Ex e IIC; Ex tb IIIC T56°C or T76°C: IP66 (For Canada)	-20°C ≤ Ta ≤ 40°C T5 T56°C
Class I, Zone 1, AEx e IIC T5 or T6	-20°C ≤ Ta ≤ 60°C T5 T76°C
AEx tb IIIC T56°C or T76°C	-20°C ≤ Ta ≤ 40°C T6 T56°C
IP65/IP66 (For US)	-20°C ≤ Ta ≤ +60°C T4 T79°C

Amperage Ratings by Cable Size and ATEX Rating

	-20°C ≤ Ta ≤ 40°C G/D T5/T56°C	-20°C ≤ Ta ≤ 40°C G/D T6/T56°C	-20°C ≤ Ta ≤ 60°C G/D T5/T76°C
70mm ²	290 A	235 A	235 A
95mm ²	415 A	335 A	335 A
120mm ²	456 A	376 A	376 A
150mm ²	493 A	415 A	415 A
185mm ²	530 A	450 A	450 A
240mm ²	570 A	497 A	497 A
300mm ²	620 A	540 A	540 A
400mm ²	680 A	600 A	600 A

SPeX Hazardous Location Plugs & Receptacles

Devices rated for hazardous locations are not returnable.

cCSAus Ratings

- **Voltage**
600 VAC
- **Amperage Ratings**
600 A
- **Environmental Ratings**
IP65/IP66
- **Temperature Range**
See table page 228
- **Wiring Capacity**
Min 2/0 AWG Max 750 MCM
Aux Contacts 12-14 AWG
See table page 228
- **Applicable Standards**
CSA C22.2 No. 182.1,
CSA 213-M1987, CSA 25-1966

Plug
(Male inlet w/handle)



Receptacle on angle
(Female)



North American cCSAus Configurations

Color Code	Polarity	Part # without Lug (by cable diameter)				Part # without Lug
		.70 - .98"	.94 - 1.33"	1.33 - 1.65"	1.57 - 1.89"	
	L1	42-41001-32P	42-41001-40P	42-41001-50P	42-41001-63P	42-47001
	L2	42-41002-32P	42-41002-40P	42-41002-50P	42-41002-63P	42-47002
	L3	42-41003-32P	42-41003-40P	42-41003-50P	42-41003-63P	42-47003
	NEUTRAL	42-4100N-32P	42-4100N-40P	42-4100N-50P	42-4100N-63P	42-4700N
	GROUND	42-4100T-32P	42-4100T-40P	42-4100T-50P	42-4100T-63P	42-4700T
	POSITIVE	42-4100P-32P	42-4100P-40P	42-4100P-50P	42-4100P-63P	42-4700M
	NEGATIVE	42-4100M-32P	42-4100M-40P	42-4100M-50P	42-4100M-63P	42-4700P

IEC/CE Ratings

- **Voltage**
1000 VAC, 1500 VDC
- **Amperage Ratings**
See table page 228
- **Environmental Ratings**
IP65/IP66
- **Temperature Range**
See table page 228
- **Wiring Capacity**
Min 2/0 AWG Max 750 MCM
Aux Contacts 12-14 AWG
See table page 228
- **Applicable Standards**
ATEX, IECEx

Plug
(Male inlet w/handle)



Receptacle on angle
(Female)



IEC/CE Configurations

Color Code	Polarity	Part # without Lug (by cable diameter)				Part # without Lug
		.70 - .98"	.94 - 1.33"	1.33 - 1.65"	1.57 - 1.89"	
	L1	46-41001-32P	46-41001-40P	46-41001-50P	46-41001-63P	46-47001
	L2	46-41002-32P	46-41002-40P	46-41002-50P	46-41002-63P	46-47002
	L3	46-41003-32P	46-41003-40P	46-41003-50P	46-41003-63P	46-47003
	NEUTRAL	46-4100N-32P	46-4100N-40P	46-4100N-50P	46-4100N-63P	46-4700N
	GROUND	46-4100T-32P	46-4100T-40P	46-4100T-50P	46-4100T-63P	46-4700T
	POSITIVE	46-4100P-32P	46-4100P-40P	46-4100P-50P	46-4100P-63P	46-4700P
	NEGATIVE	46-4100M-32P	46-4100M-40P	46-4100M-50P	46-4100M-63P	46-4700M

INSTALLATION ACCESSORIES

Accessories rated for hazardous locations are not returnable.



WIRE CAPACITY

CRIMPING LUGS	Internal Diameter		Straight w/terminal	Straight Threaded	Flexible Wiring*		Course Wiring	
	in	mm	Part #	Part #	mm ²	AWG	mm ²	AWG
	.43	11	45-4A50C	45-4A50D	50	1/0	70	2/0
	.51	13.1	45-4A70C	45-4A70D	70	2/0	95	3/0
	.57	14.5	45-4A95C	45-4A95D	95	3/0	120	4/0
	.64	16.2	45-4A12C	45-4A12D	120	250	150	300
	.71	18	45-4A15C	45-4A15D	150	300	185	400
	.81	20.6	45-4A18C	45-4A18D	185	350	240	450
	.91	23.1	45-4A24C	45-4A24D	240	450	300	500
	1.03	26.1	45-4A30C	45-4A30D	300	600	400	750
	1.15	29.2	45-4A40C	45-4A40D	400	750, 777	500	800

Notes: * Class H & I

ACCESSORIES

DRAWBAR

Part

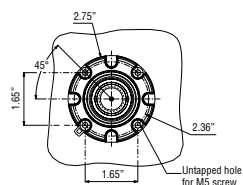
45-4A376



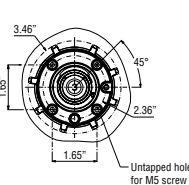
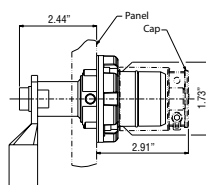
Dimensions Inlet/Receptacle – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

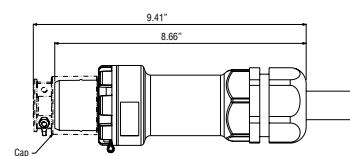
inlet



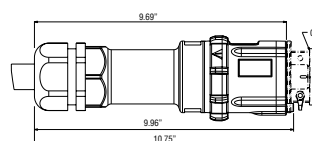
receptacle



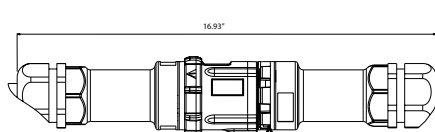
plug



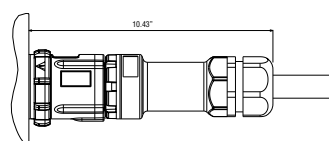
connector



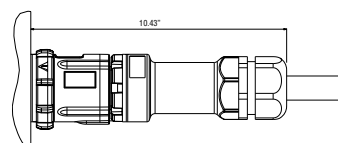
plug/connector



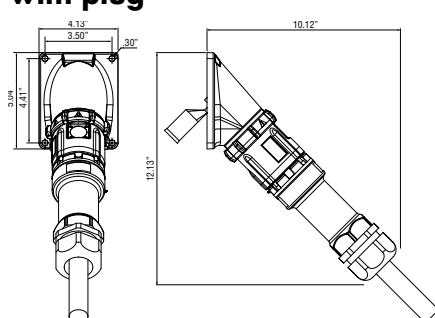
plug with connector on/off



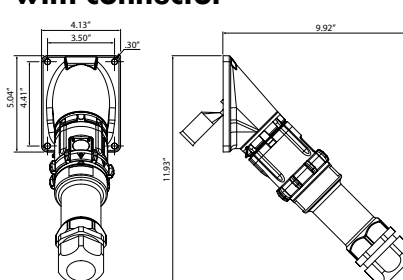
connector with plug on/off



45° inclined receptacle/angle with plug



45° inclined inlet/angle with connector



BOXES Hazardous Location



TECHNOR
ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

SB Series

316L Stainless Steel Enclosures



- ▶ Meets UL, ATEX and IECEx standards for use in explosive environments
- ▶ Over 20 standard sizes available
- ▶ Custom sizes can be ordered ranging from 100mm x 120mm x 100mm thru 910mm x 1140mm x 500mm
- ▶ Can be ordered empty or as a complete customized control panel per customer specifications

Technical Features

- ▶ **Box material:** Stainless steel AISI 316L, 1.5 mm thickness
- ▶ **Surface treatment:** Acid treatment
- ▶ **Gaskets:** Silicon rubber (suitable for use between -70°C/+200°C)
- ▶ **Environmental Rating:** IP66/IP67, Type 1, 4, 4X, 12
- ▶ **Shock resistance:** IK10
- ▶ **Ambient Temperature:** From -50°C to +60°C (ATEX), From -50°C to +95°C (IECEx)
From -40°C to +40°C (UL)
- ▶ **Approvals:** cULus: file UL E488994
ATEX : IMQ 08 ATEX 028X and IMQ 16 ATEX 004 U
IECEx: IECEx IMQ 15.0002X and IECEx IMQ 15.0010U
EAC: TR CU 05.B.01093
- ▶ **Marking:** Ex II 2 GD
Ex e IIC T(**) Gb / Ex ia IIC T(**) Gb / Ex ib IIC T(**) Gb
Ex tb IIIC T(**) Db IP66/67
** T6/T85°C, T5/T100°C, T4/T135°C
UL Type 1, 4, 4X or 12
- ▶ **Compliance:** IECEx / ATEX: IEC/EN : 60079-0 / 60079-1 / 60079-7 / 60079-11 / 60079-18 / 60079-31
UL : UL 508A and CSA C22.2 No. 14-13
- ▶ **Standard certificate label:** Self adhesive UV and corrosion resistant polyester
- ▶ **Entries:** Up to 80 mm diameter

Key Options Available

- ▶ Entries – added as needed
- ▶ Hinges – optional without
- ▶ Doors – optional locked
- ▶ Side gland plates
- ▶ Other options:
 - ▶ Breather drains
 - ▶ Viewing windows
 - ▶ Ground studs
 - ▶ Internal mounting plates
 - ▶ Acrylic laminated or stainless steel tag & certification labels
 - ▶ Other material thickness available
 - ▶ Electro polishing

SB Series 316L Stainless Steel Enclosure

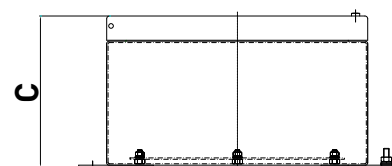
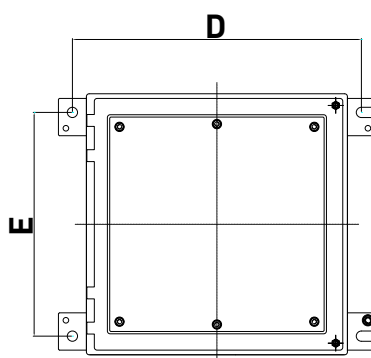
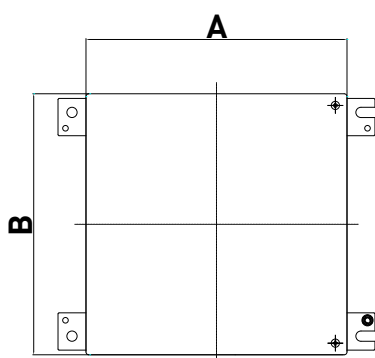
Devices rated for hazardous locations are not returnable.

PART NUMBER	DIMENSIONS (mm)*					MAXIMUM CABLE ENTRIES W/O GLAND PLATE		MAXIMUM CABLE ENTRIES W/GLAND PLATE		MAX N° TERMINALS		WEIGHT (KG)
	A	B	C	D	E	SIDE A	SIDE B	SIDE A	SIDE B	2,5 MM ²	4 MM ²	
SB-101210**	100	120	100	150	–	4	4	–	–	7	6	1.5
SB-151510**	150	150	100	180	–	6	6	–	–	13	11	2.5
SB-202010	200	200	100	230	160	9	9	–	–	22	19	3.0
SB-202016	200	200	160	230	160	15	15	8	8	22	19	3.5
SB-204016	200	400	160	230	360	15	30	8	18	66	57	4.8
SB-282816	280	280	160	310	240	21	21	12	12	76	64	5.2
SB-282827	280	280	270	310	240	46	46	33	33	76	64	7.5
SB-302016	300	200	160	330	160	21	15	12	8	44	38	5.0
SB-383816	380	380	160	410	340	30	30	18	18	114	96	8.1
SB-383827	380	380	270	410	340	67	67	51	51	114	96	10.1
SB-384516	380	450	160	410	410	30	36	18	20	171	144	10.7
SB-385716	380	570	160	410	530	30	45	18	28	228	192	16.4
SB-575716	570	570	160	600	530	45	45	28	28	372	312	16.4
SB-575730	570	570	300	600	530	116	116	95	95	372	312	21.4
SB-577620	570	760	200	600	720	73	98	54	74	558	468	21.7
SB-769520	760	950	200	790	910	98	125	74	94	990	834	32.9
SB-272713	270	270	130	300	230	14	14	6	6	36	30	4.5
SB-353516	350	350	160	380	310	27	27	16	16	102	86	5.6
SB-142013	140	200	130	170	160	6	10	2	4	11	9	4.0
SB-202713	200	270	130	230	230	10	14	4	6	36	30	7.0
SB-273513	270	350	130	300	310	14	18	6	8	72	60	9.5
SB-355016	350	500	160	380	460	27	39	16	24	160	134	13.0
SB-505016	500	500	160	530	460	39	39	24	24	240	201	14.5

* Upon request, any dimension between 100x120x100 and 910x1140x500 can be manufactured.

** The enclosure is only available without hinges.

Dimensions – Provided in mm



HAZARDOUS
LOCATION

ACCESSORIES/OPTIONS



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ADDITIONAL WATERTIGHTNESS	P. 236
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PAWL OPTIONS.....	P. 239
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SELF-EJECTING DEVICES	P. 241

AUXILIARY/PILOT CONTACTS

Auxiliary/pilot contacts can operate secondary circuits on the inlet or receptacle side of the circuit. They make last and break first when the plug is engaged or disengaged from the receptacle. To order a device with auxiliary/pilot contacts, add the appropriate suffix numbers listed to the right. Amperage ratings for the auxiliary/pilot contacts depend on the device size and operating voltage (see table below).

Switch-rated plugs & receptacles with auxiliary/pilot contacts can make the operation of a facility safer and more efficient by facilitating the use of advanced control schemes. They allow facilities to:



- **Quickly reconfigure or change-out processing equipment.** – The need for hard-wiring or multiple plug connections is eliminated.
- **Reduce equipment costs.** – The need for separate connections for the auxiliary/pilot contacts is eliminated.
- **Simplify the monitoring of key parameters.** – Thermistors on a motor driving a critical process pump can communicate temperature problems via auxiliary/pilot contacts in the Decontactor.
- **Communicate alarm signals or turn off equipment.** – When a motor is disconnected or unplugged, the auxiliary/pilot contacts can convey a signal that will de-energize the motor starter.

Auxiliary Contact Amperage Ratings

Product	DSN20	DSN30 DSN60	DSN150	DS20 DS30 DS60 2 Aux DS100C 2 Aux	DS100 DS200	DS60 3+4 Aux DS100C 3+4 Aux	DXN30 DXN60	PFQ300	PF (all sizes)	DR30 DR50 DR100 2 Aux	DR150 DR225 DR250 DR400	DR100 3+4 Aux	SP	SPeX	DS7c	DR7c
120 VAC	0.60 A	6 A	1.50 A	6 A	1.50 A	3 A	5 A*	7 A	10 A*	6 A	1.50 A	3 A	0.60 A**	-	-	-
240 VAC	0.30 A	3 A	0.75 A	3 A	0.75 A	1.50 A	5 A*	5 A	10 A*	3 A	0.75 A	1.50 A	1 A	6 A* (220V max)	-	5 A*
480 VAC	-	1.50 A	0.38 A	1.50 A	0.38 A	0.75 A	5 A	2 A*	10 A*	1.50 A	0.38 A	0.75 A	-	-	5 A* (400V max)	-
600 VAC	-	1.20 A	0.30 A	1.20 A	0.30 A	0.60 A	5 A* (550V max)	2 A*	10 A*	1.20 A	0.30 A	0.60 A	-	-	-	-

* Rating is not UL or CSA listed **Rating is not UL listed.

Ordering Information

To order on a device, add the appropriate suffix to both the inlet and receptacle part numbers.

Product	DSN				DS								DXN		PFQ	PF			DR						DR7c DS7c	SP
	20*	30	60	150	20	30	60 Poly	60 Metal	100C Poly	100C Metal	100	200	30	60	300	300	400	600	30	50	100 Poly	100 Metal	150	250		
2 contacts	-972	-972	-972	-262	-972	-972	-972	-972	-972	-972	-262	-972	-972	-972	-	-	-	-	-972	-972	-972	-972	-262	-972	-172	Standard 2
3 contacts	-	-	-973	-263	-	-973	-263	-263	-263	-263	-263	-	-	-	-	-	-	-	-	-973	-263	-263	-263	-	-173	-
4 contacts	-	-	-974	-264	-	-974	-264	-264	-264	-264	-264	-174	-	-	Standard 8	Standard 4	Standard 4	Standard 4	-	-974	-264	-264	-264	-174	-	-
5 contacts	-	-	-	-975	-	-	-	-	-	-	-975	-	-	-	-	-	-	-	-	-	-	-	-975	-	-	-
6 contacts	-	-	-	-976	-	-	-	-	-	-	-976	-976	-	-	-	-	-	-	-	-	-	-	-976	-976	-	-

* Suffix on receptacle only.

Replacement Auxiliary Contacts

Product	DSN			DS				DR			
	30	60	150	20	30	60	100C	30	50	100	150
Male contact	61-3A011-380	61-6A011-264	61-9A011-219	31-1A011-380	61-6A011-262	31-6A011-172	31-6A011-172	31-1A011-380	61-6A011-262	31-6A011-172	61-9A011-219
Female contact	61-3A021-380	61-6A021-264	61-9A229	31-1A021-380	61-6A021-262	31-6A229	31-6A229	31-1A021-380	61-6A021-262	31-6A229	61-9A229

ADDITIONAL WATERTIGHTNESS

For additional water protection when the inlet and receptacle are mated the following Type 4X option may be ordered for DS or DR models.

Type 4X Watertightness

Type 4X waterproofing is used for applications where connectors, plugs, and receptacles are subjected to water pressure. A gasket is added to the inlet and the receptacle lid is made to normally close.

Example:
To order on a device add suffix **-4X** to the inlet and receptacle part number.

DS20 Poly Inlet 2P + E = 33-18162-4X



To Order Gaskets Separately

Model	DS								DR					
	20	30	60 Poly	60 Metal	100C Poly	100C Metal	100 Metal	200	30	50	100 Poly	100 Metal	150 Metal	250
Type 4X	31-1A056	31-3A056	31-6A066	39-6A066	31-6A066	39-6A066	31-9A066	39-2A056	31-1A056	31-3A056	31-6A066	39-6A066	31-9A066	39-2A056

LID CONFIGURATIONS

There are four standard open lid configurations depending on the model and size of the device: 180° open, 120° open, 90° open and detached. Optionally, customers can order lids that are normally closed, or if the lid opens to 120° as standard, it can be ordered to open 180° for flush mounted inlets (DS & DR only).

Standard Lid Configurations



180° OPENING LIDS

Standard for:

DSN20, DSN30, DSN60 , DSN150 poly
DS20, DS30, DS60 poly, DS100C poly, DS100 poly,
DR30, DR50, DR100 poly, DR150 poly
DSDC1, DSDC3, DSDC6 poly, DSDC9 poly
DS7c, DR7c
DSN24c, DSN37c



120° OPENING LIDS

Standard for:

DX20, DX30, DX60, DX100
DXN20, DXN30, DXN60



90° OPENING LIDS

Standard for:

DSN150 metal
DS60 metal, DS100c metal, DS100 metal, DS200
DN9c, DN20c, PN metal/poly
DR100 metal, DR150 metal, DR250, DR400
DSDC6 metal, DSDC9 metal, DSDC2 metal



DETACHED LIDS

Standard for:

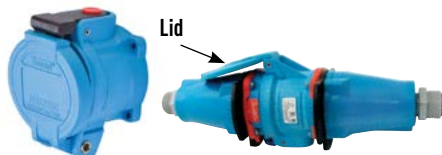
PN12c stainless steel
DSN24c stainless steel
DSN37c stainless steel
PFQ300, PF300, PF400, PF600
SP
CS1000
DXA1
DXN25c, DXN37c

Notes: DSN, DS, DR, and DSDC Hazardous receptacles have standard lid configurations that are the same as their industrial ordinary location equivalents, except they are normally closed.

Optional Lid Configurations

Closed Lid

Designed for receptacles only. A normally closed lid configuration is available for applications where it is desirable to protect the receptacle face from dust, debris, or potential damage. This option provides a lid that will automatically close to a pre-latch position after removal of the plug. The lid must still be latched manually in order to achieve rated watertightness.



Normally closed lid configuration is recommended for cord to cord applications to keep the lid tucked in and avoid damage.

CLOSED LID

Available as option on:

DSN (All sizes)
DS (All sizes)
DR (All sizes)
DN (All sizes)

Examples:

To order a DSN, DS, DR, or DN device with a closed lid add **-NC** to the receptacle part number.

DS20 Poly receptacle 2P+G = 33-14162-**NC**

To order a DXN device with a closed lid add **-R** to the receptacle part number.

DXN20 receptacle 2P+G = 22-14162-**R**

180° Open Lid for Flush Mounted Inlets (DS, DR & DXN devices only)

When ordering an inlet that will be mounted directly flush against a wall or surface without an angle or box, the connector (receptacle + handle) may require the lid to be set for 180° opening.



180° OPEN LID FOR FLUSH MOUNTED INLETS

Available as option on:

DSN150 metal
DS60 metal, DS100c metal, DS100 metal
DR100 metal, DR150 metal
DXN20, DXN30, DXN60

Example:

To order this configuration add suffix **-180** to the receptacle part number.

DS100 Metal Receptacle 3P+N+G = 37-94047-**180**

INLET/PLUG CAPS

Protective Inlet/Plug Caps

Neoprene caps provide an extra level of protection from dust, dirt, and rough handling for male plugs.



Typical for DSN, DS20, DS30, DS60, DS100C, DR30, DR50, DR100, DXN



Typical for DSN150, DS100, DS200, DR150, DR250, DR400



Typical for DN devices



Typical for PN devices

Ordering Information

Model	Protective Inlet/Plug Cap
DSN20	61-1A426
DSN30	61-3A426
DSN60	61-6A426
DSN150	31-9A426
DS20	31-1A426
DS30	31-3A426
DS60	31-6A426
DS100C	31-6A426
DS100	31-9A426
DS200	39-2A426
DXN20	22-1A426
DXN30	22-3A426
DXN60	22-6A426
DR30	31-1A426
DR50	31-3A426
DR100	31-6A426
DR150	31-9A426
DR250	39-2A426
DN9c	19-1A126*
DN20c	19-6A126*
PN20	01-NA426
DXA1	281A426

* Non-Watertight

Padlockable Inlet/Plug Caps

Padlockable caps can be locked in place to prevent unwanted removal.



Typical for: DSN20, DSN30, DSN60, DS20, DS30, DS60, DS100C, DR30, DR50, DSDC1, DSDC3, DSDC6



Typical for: DS60, DS100C, DS100, DS200, DSN150, DR100, DR150, DR250, DSDC9, DSDC2

Ordering Information

Model	Padlockable Inlet/Plug Cap
DSN20	61-1A826*
DSN30	61-3A826*
DSN60	61-6A826*
DSN150	DS9MC (Alum)
DS20/DSDC1	DS1PC (poly)
DS30/DSDC3	DS3PC (poly)
DS60/DSDC6 (Poly)	DS6MC (Alum)/DS6PC (Poly)
DS100C	DS6MC (Alum)/DS6PC (Poly)
DS100/DSDC9	DS9MC (Alum)
DS200/DSDC2	DS2MC (Alum)
DR30	DS1PC (poly)
DR50	DS3PC (poly)
DR100	DS6MC (Alum)/DS6PC (Poly)
DR150	DS9MC (Alum)
DR250	DS2MC (Alum)
DR400	DS2MC (Alum)

* Maintains IP66/IP67 and Type 4X protection

Notes: A 5/16" diameter lock/pin is needed for proper operation. Do not substitute a smaller diameter lock/pin.



*The inlet lockout hole is not completely sealed off by the DS_MC caps. If environmental protection is needed while the plug is disconnected, the inlet should be ordered without the standard hole.

Example:

To order an inlet without a lockout hole add suffix -A155 to the inlet part number.

DS20 Poly inlet 2P+G= 33-18162-A155

PAWL OPTIONS

Mushroom Pawl

The mushroom pawl is available as an alternative to the standard pawl. It is ideal for a quick disconnection of motors and other equipment, or in areas where employees use gloves and it is difficult to operate the standard pawls. The button has a red "stop" label for easy recognition.

Example:

To order on a receptacle add suffix **-375** to the receptacle part number.

DSN20 poly receptacle 2P+G=63-14162-**375**



Available on:

DSN, DS, DR and DN devices only

Locking Mushroom Pawl

Locking mushroom pawls are available that include a screw which can be tightened to "lock" the pawl in place thus preventing release of the plug or the lid.

Example:

To order on a receptacle add suffix **-845** to the receptacle part number.

DS30 poly receptacle 3P+G=33-34163-**845**



Available on:

DSN, DS, DR and DN devices only

Padlockable Mushroom Pawl

A padlockable mushroom pawl can be provided with a .32" hole that enables the lid to be locked closed, prohibiting access to the receptacle. Lockout Pin sold separately.

Example:

To order on a receptacle add **-375-843** to the receptacle part number.

To order a lockout pin order part **LP-843**.

DS30 poly receptacle 3P+G=33-38043-**375-843**



Available on:

DSN, DS, DR and DN devices only

Notes: A 5/16" diameter lock or lockout pin is needed for proper operation. Do not substitute a smaller diameter lock/pin.

Padlockable Standard Pawl

Standard pawls can be provided with a .32" hole that allows the lid of the receptacle to be locked closed or alternatively the plug can be locked in the connected position. Lockout Pin sold separately

Example:

To order on a receptacle add suffix **-843** to the receptacle part number.

To order a lockout pin order part **LP-843**.

DSN20 poly receptacle 2P+G=63-14162-**843**



Available on:

DSN, DS, DR and DN devices only

Notes: A 5/16" diameter lock or lockout pin is needed for proper operation. Do not substitute a smaller diameter lock/pin.

Metal Pawl

Metal pawls are standard with metal receptacles only. If you prefer a metal pawl on a poly receptacle, add suffix **-824** to the poly receptacle part number.

Example:

DS60 poly receptacle 3P+G=33-64163-**824**

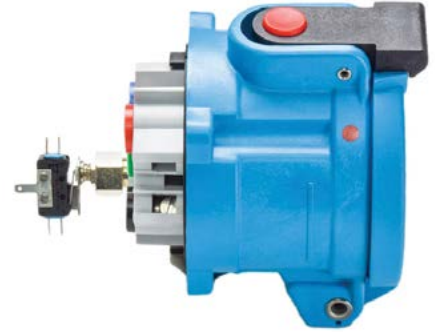


Available on:

DSN, DS, DR and DN devices only

AUXILIARY SWITCHES

Female receptacles/connectors with up to 3 poles/4 wires are available with an optional auxiliary switch for operating secondary circuits on the line side of the circuit. The auxiliary switch is rated at 5A and includes one set of NO and one set of NC contacts. With the three phase devices the neutral contact of the plug operates the switch which is located in the neutral contact position in the receptacle. With the single phase units the third phase contact on the plug operates the switch which is located in the third phase contact position in the receptacle.



Examples:

Order a receptacle with an auxiliary switch by adding suffix **-270** to the receptacle part number.
DSN30 Poly Receptacle 3P+G = 63-34043-**270**

If the receptacle is 3 pole/4 wire, the mating plug must be ordered as a 4 pole/5 plus the suffix **-NNF** should be added.
DSN30 Poly Inlet 3P+N+G = 63-38047-**NNF**

If the receptacle is 2 pole/4 wire (with neutral) the mating plug must be ordered as a 4 pole/5 wire and the suffix **-3NF** must be added.
*DSN30 Poly Inlet 2P+N+G = 63-38077-**3NF**

Notes: Devices ordered with auxiliary switch option are not UL/CSA listed.

SELF-EJECTING DEVICES

General

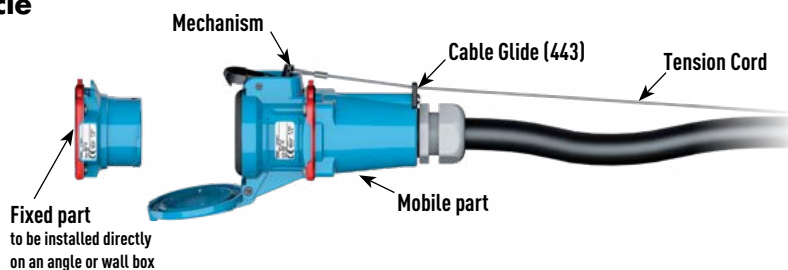
Self-ejecting devices protect equipment from damage caused when mobile equipment is accidentally moved without disconnecting power. Self-ejecting systems are designed to automatically release the plug or connector when tension is detected by a tension cord attached between the pawl and the power cable.

Applications

Self-ejecting devices are commonly used on truck hook-ups, cranes, railroad cars, refrigerated food carts, delivery vehicles and other portable equipment.

Self-Ejecting Female Connector/Receptacle

For self-ejecting female connectors, the standard pawl on the connector is replaced by a “shark’s fin” pawl that is attached to the power cable via a tension cord. If the connected equipment is moved, the tension cord lifts the shark’s fin pawl and the connector is released before damage can occur.



Available on:

DSN (All sizes)

DS (All sizes, except DS200)

DN9c*, DN20c*

How To Order:

To the female receptacle, add suffix **-354**
To the handle part number, add suffix **443**

Example:

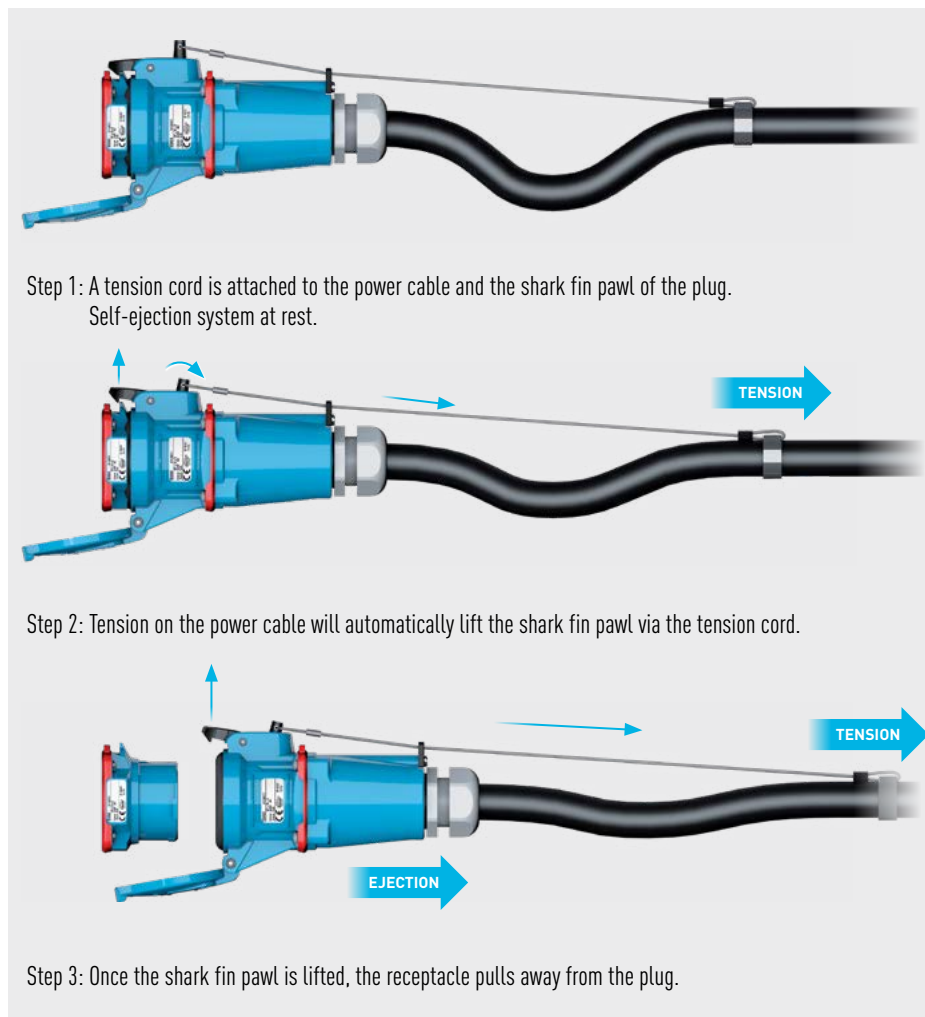
To order a DSN30 self-ejecting receptacle and poly handle (3/4" NPT), the part numbers would be:

Receptacle: 63-34043-**354**

Handle: 512PON07**443**

* For DN9c and DN20c ordering, use suffixes listed in DN9c and DN20c section

Notes: Self-ejecting devices are modified to allow straight insertion. This defeats the safety shutter and voids the device's switch-rating.



Self-Ejecting Plug

For self-ejecting plugs, a lever mechanism is added to the assembly and attached to the power cable via a tension cord. When tension is applied to the power cable, the tension cord rotates the lever mechanism, which in turn lifts the standard pawl on the receptacle and releases the plug before damage can occur.

Available on:

DSN20, DSN30, DSN60

DS20, DS30, DS60, DS100C

DSN24c, DSN37c, DS7c, DR7c

How To Order:

To the male inlet, add suffix **-338**

To the female receptacle, add suffix **-352**

To the handle part number, add suffix **443**

Example:

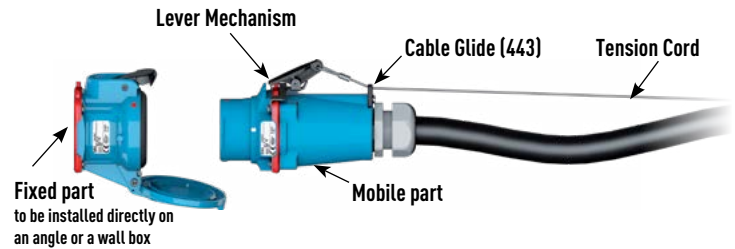
To order a DSN30 self-ejecting plug, receptacle and poly handle (3/4" NPT), the part numbers would be:

Inlet: 63-38043-**338**

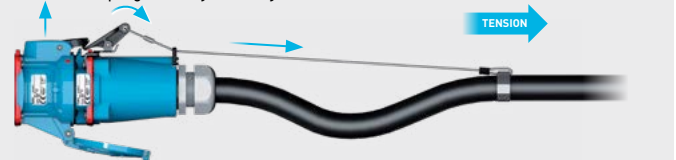
Receptacle (straight Insertion): 63-34043-**352**

Handle: 512PON07**443**

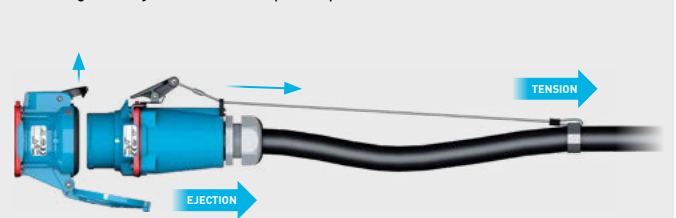
Notes: Self-ejecting devices are modified to allow straight insertion. This defeats the safety shutter and voids the device's switch-rating.



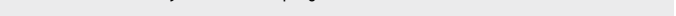
Step 1: A tension cord is attached to the power cable and the lever mechanism of the plug. Self-ejection system at rest.



Step 2: The tension acts on the power cable and the cord. The lever mechanism gradually raises the receptacle pawl.



Step 3: The receptacle pawl is fully raised by the lever mechanism, causing the automatic ejection of the plug.



Self-Ejecting Plug (DS100, DSN150, DS200, DN20c only)

For self-ejecting plugs on DS100, DSN150, DS200 and DN20c models, a cam mechanism is used in lieu of the 'lever mechanism.' The principle of operation remains the same.

How To Order:*

To the male inlet, add suffix **-338**

To the female receptacle, add suffix **-352**

To the handle part number, add suffix **443**

Example:

To order a poly DS100 self-ejecting plug, receptacle and poly handle (3/4" NPT), the part numbers would be:

Inlet: 33-98043-**338**

Receptacle (straight Insertion): 33-94043-**352**

Handle: 515PON07**443**

* For DS200 ordering, use suffixes listed in DS200 section

* For DN20c ordering, use suffixes listed in DN20c section

Notes: Self-ejecting devices are modified to allow straight insertion. This defeats the safety shutter and voids the device's switch-rating.

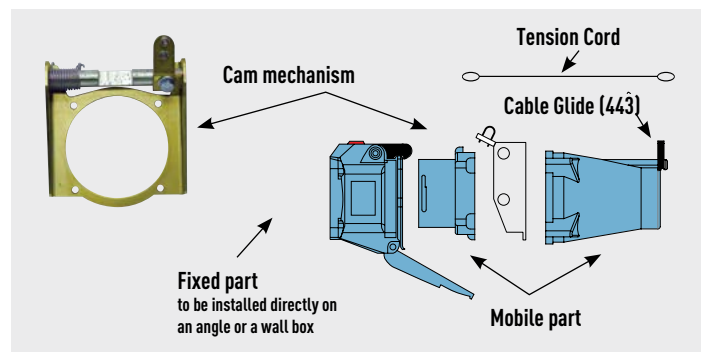


Available on:

DSN150

DS100, DS200

DN20c



TECHNICAL MANUAL & REFERENCE



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ELECTRICAL PERFORMANCE – Switch-Rated, Current Interrupting Rated and Non-Current Interrupting Rated Devices

Switch-Rated Plugs & Receptacles

MELTRIC's DSN & DS Series products are UL & CSA listed as switch-rated plugs and receptacles. These ratings allow them to be used as a motor circuit disconnect switch, as well as a branch circuit disconnect switch. Switch-rated plugs and receptacles have passed electrical overload, short circuit and endurance tests that are far more rigorous than those applied to other plugs and receptacles. These tests include the functional requirements for safety disconnect switches in addition to manual motor controllers. For more information about the tested electrical performance of switch-rated devices consult pages 246 - 248.

Current Interrupting Rated Plugs & Receptacles

Other MELTRIC devices such as the DXN plugs and receptacles are UL and/or CSA rated for "current interrupting". A current interrupting rated plug and receptacle is not subjected to the same level of endurance testing as a switch-rated device and does not need to be subjected to any overload-locked rotor or short circuit testing (see pages 246 - 248 for performance test comparisons). Plug and receptacles rated for "current interrupting" are not intended to be used as switches, but can withstand making and breaking of normal resistive loads. Devices that are not hp and short circuit rated are not intended to make and break motor loads or other inductive loads.

Non-Current Interrupting Rated Plugs & Receptacles

Many competitive plugs and receptacles, as well as some MELTRIC devices are "non-current interrupting" rated. They are not approved by UL or CSA for connecting or disconnecting under load. They have passed the minimum test requirements for plugs and receptacles but they have not passed current interrupting performance tests or the more demanding electrical endurance, overload and short circuit tests required of switch-rated devices. For more information about the tested electrical performance of non-current interrupting rated devices consult pages 246 - 248.

Ratings	Product
Switch-Rated	DSN
	DS
Current-Interrupting Rated	DXN
	DXA1
	Multipin
	DR
	PN
	DX
	Competitors Pin and Sleeve
Non-Current Interrupting Rated	Multipin
	PF/PFQ
	DSDC
	Single Pole
	Zone 2
	Competitors Pin and Sleeve

ELECTRICAL PERFORMANCE

Overload Conditions

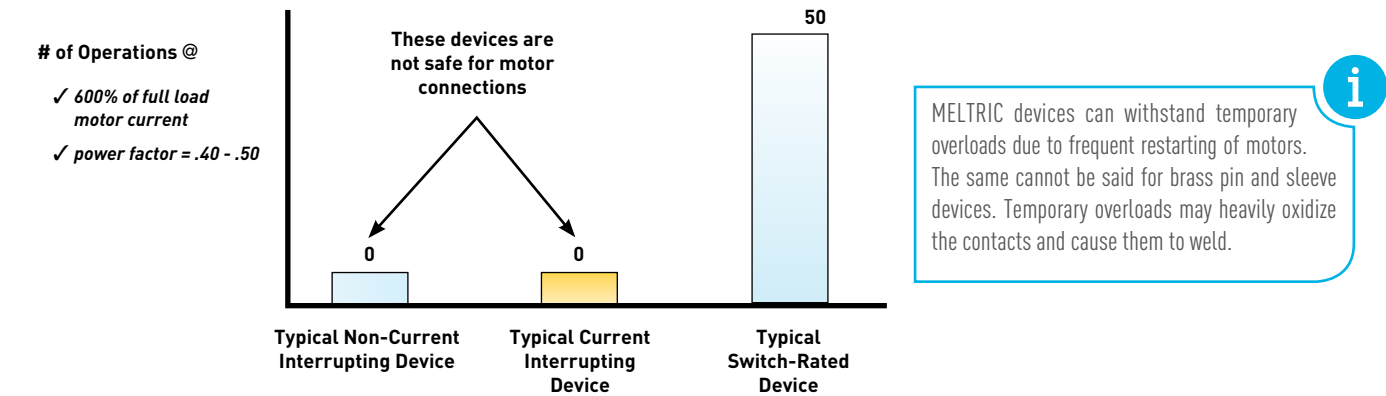
UL & CSA standards for plugs and receptacles require that the devices be able to withstand overload conditions. General use conditions are simulated by testing a device to a specified number of operations (50) at 150% of rated current and a power factor between 0.75 and 0.80. Switch-rated plugs and receptacles that are horsepower rated must perform overload testing at 600% of full load motor current with a more severe power factor (between 0.40 and 0.50) to simulate locked rotor conditions.

UL & CSA Standards – Overload Test Requirements and Ratings Comparisons

Test	UL 1682 & CSA 22.2 No. 182.1		UL Subject 2682 (used for both UL & CSA listings)
	Plugs, Receptacles & Cable Connectors of the Pin & Sleeve Type		Switch-Rated Plugs & Receptacles
	Non-Current Interrupting (Typical)	Current Interrupting	Motor/Branch Circuit Switch-Rated (Typical)
Overload (General Use Devices)	3 Operations @ 150% of Rated Current (p.f. = .75 - .80)	50 Operations @ 150% of Rated Current (p.f. = .75 - .80)	50 Operations @ 150% of Rated Current (p.f. = .75 - .80)
Overload - Locked Rotor (Horsepower Rated Devices)	–	50 Operations* @ 600% Full Load Motor Current (p.f. = .40 - .50)	50 Operations @ 600% Full Load Motor Current (p.f. = .40 - .50)

The overload requirement for testing DC devices is 1 operation.
 *Testing is optional.

Test Results: Completed Operations at Overload/Locked Rotor Condition



Motors and other equipment can be quickly and safely connected or disconnected with MELTRIC’s Switch-Rated plugs and receptacles.

ELECTRICAL PERFORMANCE

Mechanical and Electrical Endurance

UL and CSA standards require endurance testing to ensure that rated performance is maintained over the expected life of the device. The severity of this testing depends on the rating of the device.

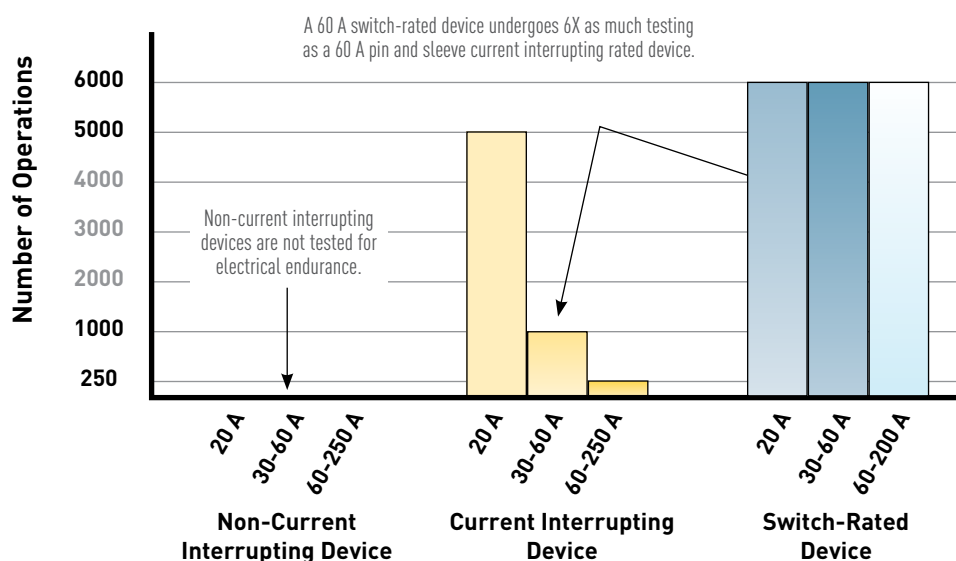
As shown in the chart below, non-current interrupting devices are tested only for mechanical endurance. Current interrupting devices are additionally subjected to moderate electrical endurance testing, and switch-rated devices are subjected to a much more severe level of electrical endurance testing, which is similar to that required of disconnect switches. In this regard, switch-rated devices may be required to make and break under full load more than 20 times as many operations (depending upon device amperage) as a current interrupting rated pin and sleeve device.

UL & CSA Standards – Overload Test Requirements and Ratings Comparisons

Test	UL 1682 & CSA 22.2 No. 182.1		UL Subject 2682 (used for both UL & CSA listings)
	Plugs, Receptacles & Cable Connectors of the Pin & Sleeve Type		Switch-Rated Plugs & Receptacles
	Non-Current Interrupting (Typical)	Current Interrupting (Typical)	Motor/Branch Circuit Switch-Rated (Typical)
Mechanical Endurance (no load)	15-20 A = 5000 Operations 21-63 A = 2000 Operations 64-250 A = 250 Operations	15-20 A = 0 Operations 21-63 A = 1000 Operations 64-250 A = 500 Operations	4000 Operations
Electrical Endurance (with load)	–	15-20 A = 5000 Operations 21-63 A = 1000 Operations ¹ 64-250 A = 250 Operations ¹ @ Rated Current & Voltage (p.f. = .75 - .80)	6000 Operations @ Rated Current & Voltage (p.f. = .75 - .80)

Notes: ¹ Testing alternates between mechanical & electrical operations. This reduces the severity of the electrical test by allowing additional cooling time during electrical testing.

Electrical Endurance Test Comparison



ELECTRICAL PERFORMANCE

Short Circuit Protection

MELTRIC's DS and DSN products have successfully completed high fault current short circuit testing. All of these devices have short circuit make (close) and withstand ratings of either 10 kA, 65 kA, or 100kA. UL witnessed and approved this testing.

UL Recognized Short Circuit Capabilities

	UL Recognized Short Circuit Capabilities		
Plug & Receptacle Type	Short Circuit Ratings		Product Standard
	Withstand	Make	
General Use Pin & Sleeve Devices	None	None	UL 1682
HP Rated Twist-Type Devices	1kA	None	UL 498
Motor Rated Pin & Sleeve Devices	10kA	None	UL 1682
MELTRIC Switch-Rated Devices	≥ 65kA	≥ 65kA	UL Subject 2682

Short Circuit Test Information

Fusing – The amperage and time delay characteristics of the fusing used in testing affect the electrical load seen by the device. UL Subject 2682 requires horsepower rated devices to withstand short circuit tests performed with fuses rated no larger than 400% of full load ampacity for motor circuits, or at least 100% of the amperage rating of devices for general branch circuit use.

MELTRIC used RK1 non-time delay type fusing for the horsepower rated devices because it is a common type of fuse used in motor applications. MELTRIC used RK5 time delayed fusing for non-horsepower ratings because it represents the most severe case of the various fusing scenarios that are typically used for general use applications.

Power Factor – The lower the power factor (p.f.) the more rigorous the test. UL Subject 2682 requires horsepower rated devices to withstand a short circuit test of 10,000 amps with a p.f. of 0.40 to 0.50. By comparison, UL 1682 requires devices with the same horsepower rating to withstand a 10,000 amp short circuit test with a much less rigorous p.f. of 0.70 to 0.80.

Short Circuit Test Summary Table

Device Information		Short Circuit Make & Withstand Rating ¹			
Model	General Use Rating	kA	VAC	Fusing used in Testing	
DSN20	20 A	10	600	RK1	80 A
		100	600	RK1	35 A
DSN30	30 A	100	600	RK1	125 A
DSN60	60 A	100	600	RK1	125 A
DSN150	150 A	10	600	RK1	400 A
	*	100	600	RK1	225 A
DS20	20 A	100	600	RK1	80 A
DS30	30 A	100	600	RK1	125 A
DS60	60 A	100	600	RK1	250 A
DS100C	100 A	100	600	RK1	250 A
DS100	100 A	65	600	RK1	175 A
	100 A	65	600	RK5 TD	100 A
DS200	200 A	10	600	RK1	500 A
		65	600	RK5 TD	200 A

¹ Testing performed with RK1 NTO current limiting fuse. Fuse was based on fuse sized HP rating or greater. Testing performed with RK5 to current limiting fuse was based on fuses sized at 100% of the device rating for branch circuits.

* The fusing used limits the 100kA rating to 60hp @ 600V, 40hp @ 480V, 20hp @ 240V & 208V.

CONTACT TECHNOLOGY

Silver-Nickel Contact Material

MELTRIC products feature solid silver-nickel (85%/15%), spring-loaded butt contacts similar to those used in motor starters and contactors. The silver-nickel material has significant advantages over the brass contacts commonly used on competitive devices.

Silver has very low initial contact resistance and is not negatively affected by oxidation. This helps to give it excellent electrical properties that are maintained even at high temperatures and after tarnishing. Nickel is a much harder material and contributes excellent mechanical properties. The combination of silver and nickel results in a contact material that has both superior electrical capabilities and excellent resistance to wear. Silver-nickel only welds at extremely high pressure and temperature, and thus, also withstands arcs very well. These features make silver-nickel a commonly used contact material by switchgear manufacturers.

By contrast, the brass material used in most competitive plugs and receptacles has much higher initial contact resistance and is negatively affected by oxidation. In an oxidized state, the contact resistance of brass is more than 20 times higher than that of silver-nickel. In addition, brass is a soft material that wears rapidly. In use, brass pin and sleeve and arcuate contacts suffer from the combined effects of the limitations of the material and the design. As oxidation and wear induced reductions in contact force occur, contact resistance increases. This increases operating temperature, which causes further oxidation and wear, perpetuating a vicious cycle of degradation. Brass is not arc resistant and is not suitable for making and breaking under load.

Spring-Loaded Contacts

Spring-loading of the contacts ensures that optimal pressure between the contacts is maintained – even after tens of thousands of operations. This point is important because contact force is a key determinant of the quality of the connection. As the accompanying graph demonstrates, contact resistance increases as contact force decreases. Higher contact resistance generates more heat and oxidation, both of which contribute to the deterioration of the contact. This is a problem with pin and sleeve and arcuate type contacts because their contact force varies with manufacturing tolerances and is reduced due to wear that occurs with normal use.

Butt-Style Connection

MELTRIC's butt-style contact configuration provides a positive and secure connection and also makes connection and disconnection easy. With butt contacts, the force applied to the contacts is in-line with the insertion motion, so inserting a plug into its socket requires only a known and limited amount of effort. Contact wear and sensitivity to manufacturing tolerances is negligible, because the spring-loading is sufficient to compensate for minor differences in contact length.

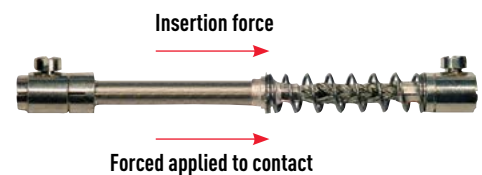
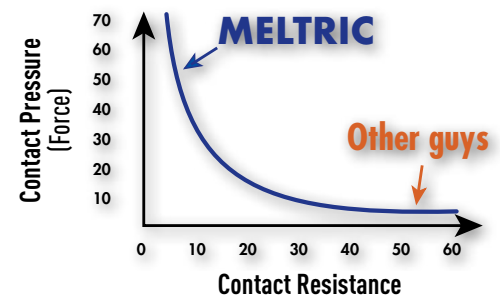


MATERIAL CONTACT RESISTANCE		
	NEW	OXIDIZED
SILVER	6 $\mu\Omega$	25 $\mu\Omega$
SILVER-NICKEL	23 $\mu\Omega$	60 $\mu\Omega$
COPPER	29 $\mu\Omega$	400 $\mu\Omega$
BRASS	370 $\mu\Omega$	1400 $\mu\Omega$

In an oxidized state, silver-nickel is 20 times more conductive than brass.



Comparison of pin and sleeve to MELTRIC solid silver-nickel contacts



With MELTRIC's butt contacts the force applied to the contacts is in-line with the insertion motion.

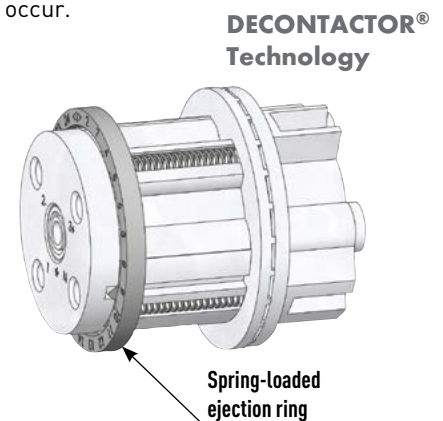
With the pin and sleeve design used by our competitors, the contact force is at a right angle to the insertion/withdrawal force. There are numerous drawbacks to such a design:

- ▶ The contact pressure must be sufficient to prevent excessive temperature rise but is limited by the need to keep the insertion force reasonable.
- ▶ The necessary friction wears out the contacts, and diminishes contact pressure over time.
- ▶ Normal manufacturing tolerances result in wide variations in performance, even with new devices.
- ▶ The sliding contact design does not make & break cleanly, so arcing is more likely to occur.

Quick Break Mechanism

On most MELTRIC devices, the circuit is broken simply by depressing the pawl. Doing so releases the energy in a spring-loaded operating mechanism, which instantaneously breaks the circuit and ejects the plug to the 'OFF' position. Contact breaking time is about 15 milliseconds. The quick break mechanism is automatically reloaded when the plug is re-inserted.

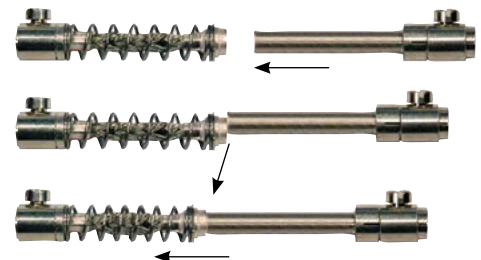
In contrast, the disconnection speed of pin and sleeve and twist type devices is dependent on the users motion when removing the plug.



Spring-loaded ejection system ensures a quick break of the contacts.

Self-Cleaning System

Most MELTRIC contacts close with a self-cleaning, wiping action. When the contacts initially mate, they are slightly offset. In completing the connection, the plug contacts are rotated partially across the receptacle contacts, helping to remove deposits from the contact surface.



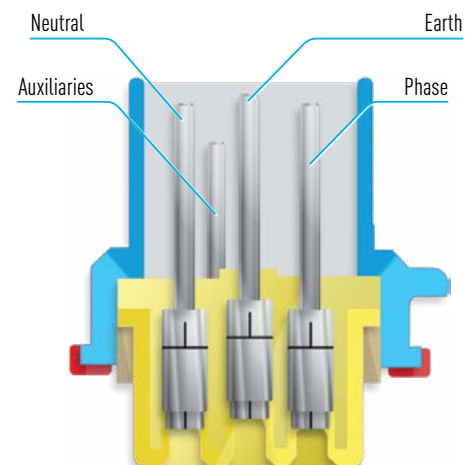
MELTRIC contacts are self cleaning.

Contact Mating Sequence

MELTRIC contacts mate in a specific sequence to ensure a proper and safe connection.

1. The earth (ground) closes first
2. Then the neutral,
3. Then the phases,
4. Then the auxiliary contacts, if any. These auxiliary contacts can, therefore, be used as "pilot" contacts.

On opening, the sequence is reversed.



The contacts are set in the plug at different levels to achieve the desired mating sequence.



This design ensures no arc at connection and disconnection.

DEAD FRONT AND ENCLOSED ARC CHAMBERS

For Maximum Protection from Live Parts

Most MELTRIC receptacles feature a dead front which encloses and isolates the live contacts when the plug is removed. Only electrically compatible plugs can unlock the safety shutter and gain access to the live parts. In addition to preventing accidental exposure to live parts, the safety shutter also keeps the contacts clean and out of reach even if the lid is left open.

Protection During the Making and Breaking Process

When disconnecting or connecting a MELTRIC plug from/to a receptacle, the user is completely protected from exposure to arc flash or live parts. This is because the contacts can only make or break while they are enclosed in internal arc chambers within the receptacle.

During disconnection, the pressing of the pawl on the receptacle breaks the connection (inside the arc chambers) and ejects the plug to its rest or “OFF” position. While in the rest position, the plug and receptacle casings maintain a dead front and thus protect the user from live parts. The plug can not be fully withdrawn until it is rotated 30° counterclockwise. This closes and locks the safety shutter preventing access to live parts during and after the removal of the plug.

During connection, the plug contacts can only access the receptacle contacts after the plug has been partially inserted into the receptacle and has then been rotated 30° to open the safety shutter. Because the interaction of the skirted plug casing with the receptacle forms a protective enclosure that prevents access to the contacts as soon as insertion begins, a dead front is maintained even after the safety shutter is opened. Once the safety shutter has been opened, the plug contacts can be safely inserted into the arc chambers where the connection is made as the plug is latched to the receptacle.

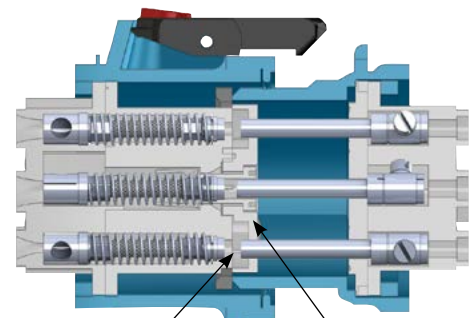
Protection from Insertion of Inappropriate Plugs

MELTRIC products offer up to 24 different keying positions. Only plugs and receptacles that are keyed/notched in the same positions will mate with each other. Non-compatible plugs will be unable to open the safety shutter. This system prevents potentially dangerous situations. For example, a 250VAC plug (notch 07) can not be inserted into a 480VAC receptacle (notch 04). Alternatively, on the PF and DX series, pegs and holes perform the same function as the notches.



The receptacle's dead front protects workers from accidental tool and wire insertion.

DECONTACTOR® Technology

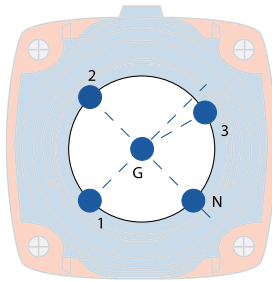


Arc chamber prevents outside exposure to arc flash.

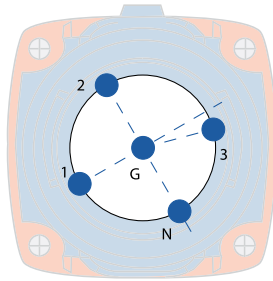
Safety shutter prevents finger or tool access to live parts.

Note: Some of the keying positions have been assigned to a designated global voltage. A few others are unassigned and are available if a user prefers to limit mating of plugs and receptacles that are only to be used on particular applications.

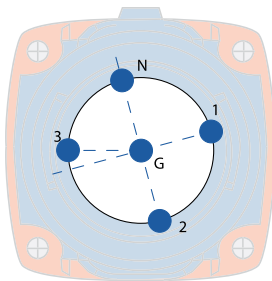
Commonly Used Keying Positions



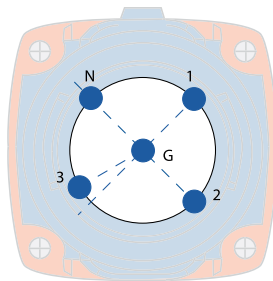
Position 04
255-277VAC/440-480VAC 60Hz



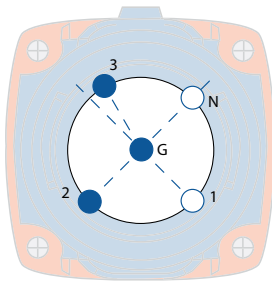
Position 07
110-125/220-250VAC 60Hz



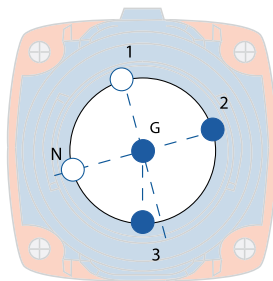
Position 14
347-600VAC 60Hz



Position 16
120-127VAC/208-220VAC 60Hz



Position 10
110-130 VDC



Position 20
220-250 VDC

Note: See chart on page 15 for a complete list of voltage polarization positions and associated voltages.

How to Identify Keying Positions of an Existing Device



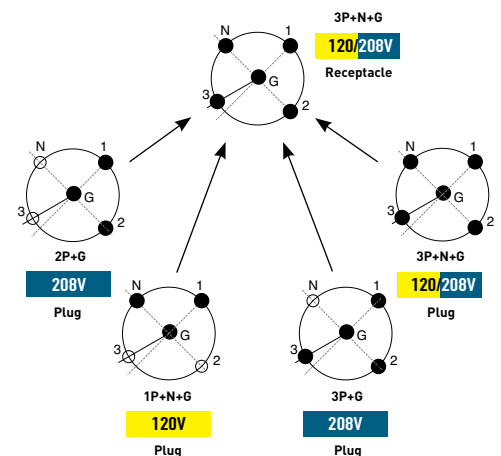
The keying position of most MELTRIC plugs can be determined by looking at the plug interior and finding a thin, raised line in the casing. This line is always directly above a number that identifies the plug's keying position.

Dual Voltage Devices Maximize User Flexibility

Some MELTRIC receptacles are designed to safely allow dual voltage capabilities.

For example, a 120/208V rated 3P+N+G receptacle will safely provide power to several configurations of 208V plugs and a single phase 120V plug. Having two voltages delivered by a single receptacle allows some facilities to significantly reduce the number of receptacles that need to be installed.

Dual voltage receptacles are supplied with dual color coded voltage stickers.



Dual Voltages Typically Available from MELTRIC

125/250V

120/208V

277/480V

347/600V

DEVICE MATERIALS AND THEIR RESISTANCE TO ENVIRONMENTS AND CHEMICALS

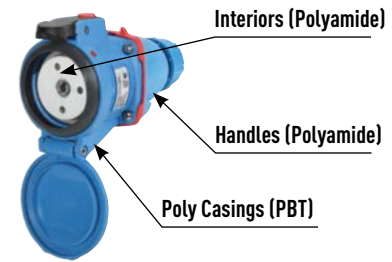
Polymeric Materials

Casings – The common technical name for the “Poly” material used by MELTRIC is PBT or PBTP (Polybutylene Teraphthalate). It consists of a special blend of thermoplastic polyester, fiberglass and elastomers which provides outstanding resistance to most chemical agents and environmental conditions, including UV and gamma rays. This material also offers high impact resistance across a broad spectrum of temperatures [shock resistance ratings to IK08].

Interiors – The arc chambers for most MELTRIC devices are made of Polyamide. Other materials are used such as Melamine and Bakelite.

Accessories – Handles, angles and wall boxes are made of Polyamide (they are supplied with self tapping screws).

Metal Materials



Products with Poly (PBT) casings

DSN20, DSN30, DSN60, DSN150
DS20, DS30, DS60, DS100, DS100C
DR30, DR50, DR100, DR150
DXN20, DXN30, DXN60
DSN24c, DSN37c, DS7c, DR7c

see note on following page

Resistance of Polymeric Casings to Various Chemical Agents *

Agent	Polyester reinforced glass fiber			Polyamide		
	23°C	60°C	80°C	23°C	60°C	80°C
Butyl acetate	☆☆	☆☆		☆☆		
Ethyl acetate	☆			☆☆		
Acetone	☆			☆☆		
Acetic acid	5%	☆☆	☆☆	☆	☆	–
	10%	☆☆	☆	☆	–	–
Hydrochloric acid	10%	☆☆	☆☆	☆☆	–	–
Chromic acid	40%	☆☆	☆☆	☆☆	–	–
Citric acid	10%	☆☆	☆☆	☆☆	–	–
Formic acid	5%	☆☆	☆	☆☆	–	–
Nitric acid	10%	☆☆	☆	☆☆	–	–
Oleic acid	100%	☆☆	☆☆	☆☆	–	–
Phosphoric acid	3%	☆☆	☆☆	☆☆	–	–
	30%	☆☆	☆☆	☆☆	–	–
	85% (conc)	☆☆	☆☆	☆☆	–	–
Sulphuric acid	3%	☆☆	☆☆	☆☆	–	–
	30%	☆☆	☆☆	☆☆	–	–
Ethyl alcohol		☆☆		☆☆		
Methyl alcohol		☆☆		☆☆		
Aniline		☆☆		☆☆		
Benzene		☆	☆	☆☆		
Soda Bicarbonate	10%	☆☆	☆	☆☆	☆☆	☆
Potassium bichromate	10%		☆☆		☆☆	
Sodium bisulphate	10%	☆☆	☆	☆☆	☆☆	
Butane		☆☆		☆☆		
Butanol		☆	☆	☆☆		
Soda carbonate	10%	☆☆	–	☆☆	☆☆	☆
	20%	☆☆	–	☆☆	☆☆	☆
Disulphuric carbonate		☆☆		☆☆		
Calcium chloride	10%	☆☆	☆☆	☆☆		
Potassium chloride	10%	☆☆	☆	☆☆		
Sodium chloride	10%	☆☆	☆	☆☆		
Detergents	1%	☆☆	☆	☆☆	☆☆	
	25%	☆☆	☆	☆☆	☆☆	
Dibutylphtalate		☆☆	☆☆	☆☆		
Dichlorethane		–		☆☆		
Dioxane		☆☆	–	☆☆		
Water		☆☆	☆	☆☆	☆☆	☆
Bleach		☆☆	☆	☆☆		
Gas		☆☆		☆☆		
Turpentine		☆☆		☆☆		

Agent	Polyester reinforced glass fiber			Polyamide		
	23°C	60°C	80°C	23°C	60°C	80°C
White spirit	☆☆			☆☆		
Ether	☆☆			☆☆		
Freon 11	☆☆			☆☆		
Glycerine	☆	☆		☆☆	☆	–
Glycol	☆	☆		☆☆	☆	–
Grease	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Heptane	☆☆			☆☆		
Hexane	☆☆			☆☆		
Cotton seed oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Silicon oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Processing oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Diesel oil	☆☆			☆☆		
Olive oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Mineral oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Engine oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Plant oil	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Ammonium hydroxide	10%	☆		☆☆		
	conc	–		☆☆		
Potassium hydroxide	1%	–	–	☆☆		
	10%	–	–	☆☆		
Sodium hydroxide	1%	–	–	☆☆		
	10%	–	–	☆☆		
Calcium hypochlorite		☆☆	☆☆	☆☆		
Sodium hypochlorite	10%	☆☆	☆	–		
Isopropanol		☆	☆	☆☆		
Braking liquid		☆☆	☆☆	☆☆		
Methylethycetone		☆☆	☆	☆☆		
Perchlorethylene		☆☆	☆☆	☆☆	☆☆	–
Potassium permanganate	10%	☆☆		–		
Oil		–		–		
Hydrogen peroxide	3%	☆☆		–		
	30%	☆☆		–		
Soap solution	1%	☆☆	–	☆☆		
Carbon tetrachloride		☆☆		☆☆		
Tetrahydrofurane		☆		☆☆		
Toluene		☆☆		☆☆		
Trichlorethylene		☆		☆☆	☆☆	☆☆
Vaseline		☆☆	☆☆	☆☆	☆☆	☆☆
Xylene		☆☆		☆☆		

Legend: ☆☆☆ = Excellent ☆☆☆ = Good – = Poor

Casings – Metal casings providing even greater impact resistance are standard on some MELTRIC products and are optional on others. Depending upon the product line, these casings may be made of zamak, aluminum or stainless steel. Zamak, a zinc - aluminum alloy is the most commonly used. Zamak receptacles are blue epoxy coated and zamak plugs are specially treated to further improve corrosion resistance.

Contacts – All MELTRIC contact surfaces are made of solid silver-nickel with the exception of the PF and PFQ contacts which are solid pure silver. Silver-nickel and silver both provide excellent resistance to climatic conditions and to all known chemical agents found in industry with the exception of sulphuric acid. Products installed in sulphuric acid environments should have an environmental rating of at least Type 4X or IP66.

Accessories – Wall boxes, angles, and handles are in zamak or aluminum alloy. All zamak accessories are standardly protected by an epoxy paint.



Products with Metal Zamak casings

DS60, DS100C, DS100, DS200, DSN150
DSN150
DR100, DR150, DR250
PN7c, PN12c, DN20c, DS7c, DR7c

Products with Aluminum casings

PN (HT)
DS200, DR250, DR400
DX20, DX30, DX60, DX100
PFQ300, PF300, PF400, PF600
DXA1

Products with Stainless Steel casings

PN7c, PN12c
DS24c, DS37c

Contact customer service for availability of Stainless Steel on other products.

Resistance of Metal Casings to Corrosive Agents *

Agent	Protected Zamak or Aluminum
Dry lighting gas	☆☆
Water steam	☆
Hot water	☆
Artificial sea water	☆
Soluble oil 3%	☆
Soluble oil 5%	☆☆
Cleansing soap	☆☆
Potash solution 1%	☆
Potash solution 5%	☆
Ammonia 1%	☆
Ammonia 5%	☆
Sodium chloride 1%	☆
Sodium chloride 5%	☆
Acetic acid 1%	☆
Acetic acid 5%	—
Gas	☆☆
Engine oil	☆☆
Printing ink	☆
Ethyl or methyl alcohol	☆☆
Trichloethylene	☆
Dry insecticides	☆

Legend: ☆☆☆ = Excellent

☆ = Good

— = Poor

These resistance charts are intended to give a general overview of the performance of our casings and mounting accessories. It is not intended to provide a guarantee of performance of our product as that will depend on the concentration of the chemical, the application temperature, the duration of the exposure, and other application specific factors. In cases where chemical compatibility may be in question the established practice is to place a representative sample device in the application environment to see how it holds up.



WATERTIGHTNESS/INGRESS PROTECTION (NEMA AND IP RATINGS)

Environmental Ratings for MELTRIC Devices



Most MELTRIC products achieve rated watertightness as soon as the plug is fully inserted into the receptacle.

Product	Type	IP (plug+receptacle)	IP (receptacle alone)
DSN	4X	69/69K	69/69K
DS ⁺	3R	–	–
DXN	–	66/67	66/67
DXN25c/37c	–	66/67	66/67
DX	–	65	65
DN	–	54	55
PF/PFQ	–	66/67	66/67
DR ⁺	3R	–	–
PN	–	66/67	66/67
PXN12c	–	65/66	65/66
SP	–	66/67	66/67
SPeX	–	65/66	65/66
DXA1	–	66/67	66/67

* Additional watertightness is available on DS and DR devices, see pg 236.

Environmental Ratings Explained

NEMA/UL/CSA Enclosure Types (UL50)

Enclosure Type	Intended Use and Description
1	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.
2	Indoor use primarily to provide a degree of protection against limited amounts of waste and falling dirt.
3, 3R, 3S	Outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation
4, 4X	Indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.
12	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt and dripping non-corrosive liquids.

IP Ratings (IEC/EN 60529)

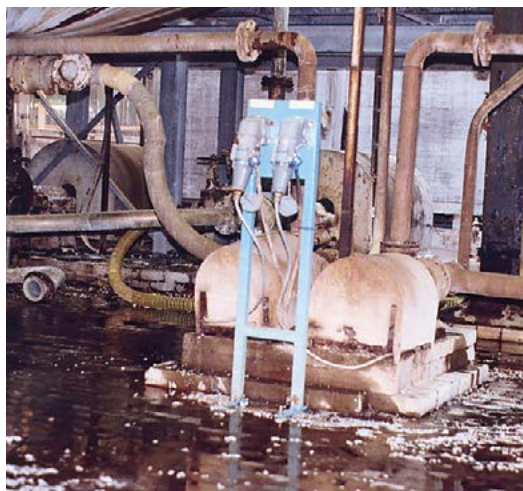
First Digit Protection against the ingress of solid foreign objects and access to hazardous parts			Second Digit Protection against the ingress of water with harmful effects	
0	No protection	–	0	No protection
1	50mm	Back of hand	1	Vertically dripping water (condensation)
2	12.5mm	Finger	2	Dripping water at 15°
3	2.5mm	Tool	3	Spraying water at 60° (rain)
4	1mm	Wire	4	Splashing water from any direction
5	Against Dust	–	5	Jetting water from any direction
6	Dust-tight	–	6	Powerful jetting water from any direction
–	–	–	7	Temporary submersion
–	–	–	9(K)	High pressure, high temperature jey sprays

IMPACT RESISTANCE

MELTRIC product resistance to mechanical shocks is specified in accordance with their IK ratings.

MELTRIC Products IK Ratings (per IEC/EN 50102)

Product	Material	IK Ratings
DSN	Poly	08 (5 Joules)
DS	Poly	08 (5 Joules)
DS	Metal	09 (10 Joules)
DR	Poly	08 (5 Joules)
DR	Metal	09 (10 Joules)
DN	Metal	09 (10 Joules)
PN	Poly	08 (5 Joules)
PN/PXN12c	Metal	09 (10 Joules)
PF	Metal	10 (20 Joules)
DX	Metal	10 (20 Joules)
DXN	Poly	08 (5 Joules)
DXN25c/37c	Metal	09 (10 Joules)
SP/SPeX	Poly	08 (5 Joules)
DXA1	Metal	10 (20 Joules)



OPERATING TEMPERATURES

All MELTRIC plugs and receptacles (except SPeX) can be used with no particular precaution from -15°F to 140°F/-26°C to 60°C.

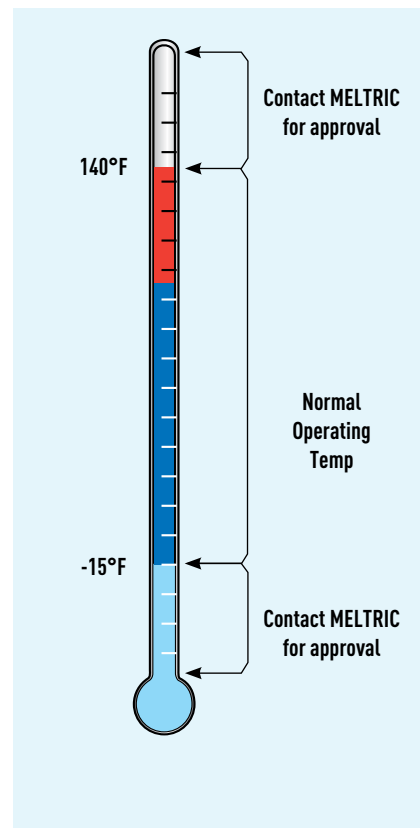
Hot Temperatures

Some devices that do not contain any polyamide can operate up to 175°F/80°C but precise conditions and duty cycles must be submitted to the MELTRIC engineering department for approval. A limited range of products are available for ambient temperatures up to 465°F/240°C. Contact MELTRIC customer service for more information.

Cold Temperatures

Below -15°F materials become more brittle and impact should be avoided, especially on polyamide materials. However, MELTRIC's metal and polyester casings can be used as low as -40°F/-40°C and some MELTRIC devices are in service at -75°F/-60°C. Consult factory for more information.

Note: SPeX temperature range Min -4°F/Max 140°F



COLOR CODED GASKETS & LABELS

FOR VOLTAGE IDENTIFICATION

PIN CONFIGURATION	VOLTAGE RANGE	FREQUENCY	5th, 6th and 7th PART NUMBER DIGITS	RECEPTACLE/CONNECTOR		PLUG/INLET	
				COLOR GASKET	VOLTAGE STICKER	COLOR GASKET	VOLTAGE STICKER
1P+N+G	110 - 125V	60Hz	075	ORANGE	ORANGE	ORANGE	ORANGE
	120 - 127V	60Hz	165	YELLOW	YELLOW	YELLOW	YELLOW
	255 - 277V	60Hz	045	GREY	GREY	GREY	GREY
	347V	60Hz	145	RED	RED	RED	RED
	110 - 130V	50Hz	035	YELLOW	YELLOW	YELLOW	YELLOW
	220 - 250V	50Hz	015	BLUE	BLUE	BLUE	BLUE
	380 - 440V	50Hz	195	RED	RED	RED	RED
	577V	50Hz	225	BLACK	BLACK	BLACK	BLACK
	115 - 127V	200Hz	125	GREEN	YELLOW	GREEN	YELLOW
	115 - 127V	400Hz	115	GREEN	YELLOW	GREEN	YELLOW
2P	20 - 24V	60Hz	02A	VIOLET	VIOLET	VIOLET	VIOLET
	20 - 24V	50Hz	08A	VIOLET	VIOLET	VIOLET	VIOLET
	25 - 28V	50Hz	06A	VIOLET	VIOLET	VIOLET	VIOLET
	40 - 48V	50Hz	13A	WHITE	WHITE	WHITE	WHITE
2P+G	208 - 220V	60Hz	162	BLUE	BLUE	BLUE	BLUE
	220 - 250V	60Hz	072	ORANGE	ORANGE	ORANGE	ORANGE
	440 - 480V	60Hz	042	RED	RED	RED	RED
	600V	60Hz	142	BLACK	BLACK	BLACK	BLACK
	190 - 230V	50Hz	032	BLUE	BLUE	BLUE	BLUE
	380 - 440V	50Hz	012	RED	RED	RED	RED
	480 - 500V	50Hz	092	BLACK	BLACK	BLACK	BLACK
	660 - 690V	50Hz	192	BLACK	BLACK	BLACK	BLACK
	1000V	50Hz	222	BLACK	BLACK	BLACK	BLACK
	200 - 220V	200Hz	122	GREEN	BLUE	GREEN	BLUE
	200 - 220V	400Hz	112	GREEN	BLUE	GREEN	BLUE
	110 - 130V	DC	109	YELLOW	YELLOW	YELLOW	YELLOW
	220 - 250V	DC	209	BLUE	BLUE	BLUE	BLUE

PIN CONFIGURATION	VOLTAGE RANGE	FREQUENCY	5th, 6th and 7th PART NUMBER DIGITS	RECEPTACLE/CONNECTOR		PLUG/INLET	
				COLOR GASKET	VOLTAGE STICKER	COLOR GASKET	VOLTAGE STICKER
2P+N+G	<u>110 - 125V</u> 220 - 250V	60Hz	076	ORANGE	ORANGE	ORANGE	ORANGE
	<u>120 - 127V</u> 208 - 220V	60Hz	166	BLUE	YELLOW BLUE	BLUE	YELLOW BLUE
	<u>255 - 277V</u> 440 - 480V	60Hz	046	RED	GREY RED	RED	GREY RED
	347 - 600V	60Hz	146	BLACK	RED BLACK	BLACK	RED BLACK
	<u>110 - 130V</u> 190 - 230V	50Hz	036	BLUE	YELLOW BLUE	BLUE	BLUE
	<u>220 - 250V</u> 380 - 440V	50Hz	016	RED	BLUE RED	RED	RED
	<u>380 - 400V</u> 660 - 690V	50Hz	196	BLACK	RED BLACK	BLACK	BLACK
	480 - 500V	50Hz	096	BLACK	BLACK	BLACK	BLACK
	<u>115 - 127V</u> 200 - 220V	200Hz	126	GREEN	YELLOW BLUE	GREEN	BLUE
	<u>115 - 127V</u> 200 - 220V	400Hz	116	GREEN	YELLOW BLUE	GREEN	BLUE
	208 - 220V	60Hz	163	BLUE	BLUE	BLUE	BLUE
	220 - 250V	60Hz	073	ORANGE	ORANGE	ORANGE	ORANGE
3P+G	440 - 480V	60Hz	043	RED	RED	RED	RED
	600V	60Hz	143	BLACK	BLACK	BLACK	BLACK
	190 - 230V	50Hz	033	BLUE	BLUE	BLUE	BLUE
	380 - 440V	50Hz	013	RED	RED	RED	RED
	480 - 500V	50Hz	093	BLACK	BLACK	BLACK	BLACK
	660 - 690V	50Hz	193	BLACK	BLACK	BLACK	BLACK
	1000V	50Hz	223	BLACK	BLACK	BLACK	BLACK
	200 - 220V	200Hz	123	GREEN	BLUE	GREEN	BLUE
	200 - 220V	400Hz	113	GREEN	BLUE	GREEN	BLUE
	<u>110 - 125V</u> 220 - 250V	60Hz	077	ORANGE	ORANGE	ORANGE	ORANGE
	<u>120 - 127V</u> 208 - 220V	60Hz	167	BLUE	YELLOW BLUE	BLUE	YELLOW BLUE
	<u>255 - 277V</u> 440 - 480V	60Hz	047	RED	GREY RED	RED	GREY RED
3P+N+G	347 - 600V	60Hz	147	BLACK	RED BLACK	BLACK	RED BLACK
	<u>110 - 130V</u> 190 - 230V	50Hz	037	BLUE	YELLOW BLUE	BLUE	BLUE
	<u>220 - 250V</u> 380 - 440V	50Hz	017	RED	BLUE RED	RED	RED
	<u>380 - 400V</u> 660 - 690V	50Hz	197	BLACK	RED BLACK	BLACK	BLACK
	480 - 500V	50Hz	097	BLACK	BLACK	BLACK	BLACK
	<u>115 - 127V</u> 200 - 220V	200Hz	127	GREEN	YELLOW BLUE	GREEN	BLUE
	<u>115 - 127V</u> 200 - 220V	400Hz	117	GREEN	YELLOW BLUE	GREEN	BLUE
MULTIPIN		NOT	SPECIFIED	SKY BLUE	SKY BLUE	SKY BLUE	SKY BLUE

SUFFIXES

Quick Reference Table

Suffix	Description	Applicable Products	Special Instructions
-001	Reverse Interior	PN7c, PN12c, PN20	Add to inlet and receptacle part numbers
-026	Black Device Gasket	DS, DR, DSN	
-080	Junction Box w/Angle	All	
-1	1" NPT Thread Size for Conduit Entry	DSN, DS, DR, DX, PN, DN, DXN	Add to applicable accessories
-112	1 1/2" NPT Thread Size for Conduit Entry	DSN, DS, DR, DX, DN, DXN	Add to applicable accessories
-12	1/2" NPT Thread Size for Conduit Entry	DS, DR, DX, DN, DXN, DXA1	Add to applicable accessories
-114	1 1/4" NPT Thread Size for Conduit Entry	DSN, DS, DR, DX, PN, DN, DXN	Add to applicable accessories
-172	2 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-173	3 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-174	4 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-175	5 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-180	180° Lid Opening for Flush Mounted Inlets	DS100, DS200, DR150, DR250, DXN	Add to receptacle part number
-185	High Temp Product	PNHT	Add to inlet or receptacle part number
-2	2" NPT Thread Size for Conduit Entry	DS, DR, DX, DN	Add to applicable accessories
-200	Cable Range 2.000" - 2.125"	PF/PFQ	Add to handle part number
-20	2" NPT Fitting Size	PF/PFQ	Add to PF/PFQ junction box
-20P	Cable Range .28" - .41"	DXN20, DXN30	Add to plug/connector part number
-212	2 1/2" NPT Thread Size for Conduit Entry	DS, DR, DN	
-225	Cable Range 2.125" - 2.375"	PF/PFQ	Add to handle part number
-237	Cable Range 2.25" - 2.375"	PF/PFQ	Add to handle part number
-25	2 1/2" NPT Fitting Size	PF/PFQ	Add to PF/PFQ junction box
-25P	Cable Range .35" - .67"	DXN	Add to plug/connector part number
-250	Cable Range 2.375" - 2.25"	PF/PFQ	Add to handle part number
-262	2 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-263	3 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-264	4 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet & receptacle part number
-270	Auxiliary Switch for Receptacles	DS, DS, DR	Add to receptacle part number
-275	Cable Range 2.5" - 2.75"	PF/PFQ	Add to handle part number
-30	3" NPT Fitting Size	PF/PFQ	Add to PF/PFQ junction box
-300	Cable Range 2.75" - 3"	PF/PFQ	Add to handle part number
-30A	30 A Capacity	PN20	Add to inlet & receptacle part number
-312	Cable Range 3" - 3.125"	PF/PFQ	Add to handle part number
-32P	Cable Range .43" - .83"	DXN	Add to plug/connector part number
-335	Cable Range 3.125" - 3.35"	PF/PFQ	Add to handle part number
-338	PRL Release Pawl	DSN,DS20,DS30,DS60,DS100C,DS100,DN	Add to inlet part number
-338-A188	PRL Release Pawl w/Straight Insertion	Select DSN, DS, DN models	Add to inlet part number
-34	3/4" NPT Thread Size for Conduit Entry	DSN, DS, DR, DX, PN, DN, DXN	Add to applicable accessories
-352	Straight Insertion	DSN,DS20,DS30,DS60,DS100C,DS100,DN9c	Add to receptacle part number
-354	SRL Release Pawl w/Straight Insertion for Receptacles	DSN,DS20,DS30,DS60,DS100C,DS100,DN9c	Add to receptacle part number

Suffix	Description	Applicable Products	Special Instructions
-35	3 1/2" NPT Fitting Size	PF/PFQ	Add to PF/PFQ junction box
-350	Cable Range 3.35" - 3.5"	PF/PFQ	Add to handle part number
-375	Mushroom Pawl	DSN, DS, DR	Add to receptacle part number
-375-843	Padlockable Mushroom Pawl	DSN, DS, DR, DN	Add to receptacle part number
-3NF	Non Functioning Contact to Activate Auxiliary Switch	DSN, DS	Add to inlet part number
-40	4" NPT Fitting Size	PF/PFQ	Add to PF/PFQ junction box
-40P	Cable Range .75" - 1.10"	DXN	Add to plug/connector part number
-473	Finger Drawplate on Handle	DS	Add to handle part number
-48	Inlet or Receptacle w/o Cap	PF	Add to inlet and receptacle part numbers
-4X	Type 4X Watertightness	DS, DR	
-601	Special Adapter Plate for DSN1 Angle on Junction Box	DSN20	
-824	Metal Pawl for Poly Receptacles	DSN, DS, DR	Add to receptacle part number
-824-300	Locking Pawl	PN7c, PN12c, PN20	Add to receptacle part number
-843	Padlock Pawl	DSN, DS, DR, DN, DXN	Add to receptacle part number
-845	Locking Mushroom Pawl	DS, DR, DN	Add to receptacle part number
-924	Metal Pawl for Poly Receptacles	DXN	Add to receptacle part number
-972	2 Auxiliary/Pilot Contacts	Select DSN, DS, DR models, DXN	Add to inlet and receptacle part numbers
-973	3 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet and receptacle part numbers
-974	4 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet and receptacle part numbers
-975	5 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet and receptacle part numbers
-976	6 Auxiliary/Pilot Contacts	Select DSN, DS, DR models	Add to inlet and receptacle part numbers
-A06	Allows up to 4/0 AWG Wiring Capacity	DS200, DR250	Add to inlet and receptacle part numbers
-A155	Inlet w/o the Standard Lockout Hole	DSN, DS, DXN	Add to inlet part number
-A188	Straight Insertion	DS200, DN20c	Add to inlet and receptacle part numbers
-B	Bottom Interior Piece	All	
-CG	Cable Guide for PRL or SRL Release Pawl for Handle	DSN, DS, DN	Add to handle part number
-C-***	Suffixes for DS100C Inlets & Receptacles	DS100C	Included in inlet/receptacle part number
-E323	Allows up to 2/0 AWG Wiring Capacity	DS100, DR150	
-HAZ	Zone 2/Div 2 Hazardous Rated Devices	Zone 2	Add to inlet and receptacle part numbers
-HP	High Pressure Water Protection	DN	Add to inlet and receptacle part numbers
-K**	Voltage being used when notching position is not standard	All	Add to inlet and receptacle part numbers
-LC	Less Cover	DSN, DS	Add to receptacle part number
-MTR	Phase Rotation Meter	DSN, DS, DR	Add to plug
-NC	Normally Closed Lid	DSN, DS, DR, DN	Add to receptacle part number
-NNF	Non Functioning Neutral - Activates 3 Pole 4 Wire Receptacle	DSN, DS, DR	Add to inlet part number
-NP	No Paint on Accessories	All accessories	
-R	Normally Closed Lid	DXN	Add to receptacle part number
-SS	Stainless Steel	PN7c, PN12c, DS24c, DS37c	
-T	Top Interior piece	All	

OLD/NEW ACCESSORIES REFERENCES

Old Part Number	New Part Number
01-NA013	511P0D18
01-NA013-1	511P0N10
01-NA013-12	511P0N05
01-NA013-34	511P0N07
01-NA023-12	511B3N05
01-NA023-34	511B3N07
01-NA025-12	511B0N05
01-NA025-34	511B0N07
01-NA027-601	511M3
01-NA053-080-1	711C3N10
01-NA053-080-112	711C3N15
01-NA053-080-114	711C3N12
01-NA053-080-12	711C3N05
01-NA053-080-34	711C3N07
01-NA055	511B0M20
01-NA313	511P6D18
04-2A090-5-10	751P9N10
04-2A090-5-12	751P9N05
04-2A090-5-34	751P9N07
09-2A013-SS-34	7X1P0N07
09-2A025-185-12	571B0N05185
09-2A025-185-34	571B0N07185
09-2A027-185	571M4185
09-2A053-185-34	571C4N07185
09-2A673-185	571C4M32185
09-2A674-185	571P025M185
09-2A675-185	571P032M185
09-2A913-67	571P020M185
09-2A963-185	571P020M185
09-NA025-12	591B0N05
09-NA025-34	591B0N07
09-NA027	591M4
09-NA053-080-1	791C4N10
09-NA053-080-114	791C4N12
09-NA053-080-114-185	771C4N12185
09-NA053-080-1-185	771C4N10185
09-NA053-080-12	791C4N05
09-NA053-080-12-185	771C4N05185
09-NA053-080-34	791C4N07
09-NA053-080-34-185	771C4N07185
09-NA055	591B0M20
09-NA953-32M	591P032M
09-NA963	591P020M
11-8A013	512P0D21
19-1A013	513P0D30
19-1A053	593B2M20

Old Part Number	New Part Number
19-1A953-32M	593P032M
19-3A013	514P0D35
19-3A053	594B2M25
19-3A253-32P	514P032P
19-6A013-1	595P0N10
19-6A013-112	595P0N15
19-6A013-114	595P0N12
19-6A013-2	595P0N20
19-6A013-34	595P0N07
19-6A053	595B2M40
19-6A253-32P	515P032P
19-6A953-32M	595P032M
19-9A253-40P	515P040P
1H12SS	7X2P0N05
1H1SS	7X2P0N10
1H34SS	7X2P0N07
1PH1	512P0N10
1PH114	512P0N12
1PH12	512P0N05
1PH12M	552P0N05
1PH34	512P0N07
1PH34M	552P0N07
1PM511	712P0S11
1PM514	712P0S14
1PM514CG	712P0S14443
1PM516	712P0S16
1PM516CG	712P0S16443
1PM518	712P0S18
1PM520	712P0S20
1PM522	712P0S22
1PM522CG	712P0S22443
2H1	596P0N10
2H112	596P0N15
2H114	596P0N12
2H2	596P0N20
2H212	596P0N25
2H3	596P0N30
2H941	596P0D00941
2H942	596P0D00942
2H943	596P0D00943
2PH1	516P0N10
2PH112	516P0N15
2PH112CG	516P0N15443
2PH114	516P0N12
2PH2	516P0N20
2PH212	516P0N25

Old Part Number	New Part Number
31-1A013	512P0D21
31-1A053	512B3M20
31-1A053-080-1	712C3N10
31-1A053-080-112	712C3N15
31-1A053-080-114	712C3N12
31-1A053-080-12	712C3N05
31-1A053-080-34	712C3N07
31-1A083	512B3M25
31-1A253-25P	512P025P
31-1A443-25P	512P025P443
31-1A753	512P020P
31-1A953-32M	592P032M
31-3A027	513M3
31-3A053	513B3M25
31-3A053-080-1	713C3N10
31-3A053-080-112	713C3N15
31-3A053-080-114	713C3N12
31-3A053-080-12	713C3N05
31-3A053-080-34	713C3N07
31-3A473	513P0D30473
31-3A653-417	513C3M20
31-3A753	513P025P
31-3A953-32M	593P032M
31-6A013	514P0D35
31-6A027	514M3
31-6A053-080-1	714C3N10
31-6A053-080-112	714C3N15
31-6A053-080-114	714C3N12
31-6A053-080-2	714C3N20
31-6A253-25P	514P025P
31-6A253-32P	514P032P
31-6A473	514P0D35473
31-6A753	514P040P
31-9A027	515M3
31-9A053-080-1	715C3N10
31-9A053-080-112	715C3N15
31-9A053-080-114	715C3N12
31-9A053-080-2	715C3N20
31-9A053-080-212	715C3N25
31-9A053-080-34	715C3N07
31-9A953-63M	595P063M
35-1A953-25M	5K2P025M
35-2A013-D35	556P0D35
35-2A013-D45	556P0D45
35-2A013-D49	556P0D49
35-6A053-080-112	7K4C0N15

Old Part Number	New Part Number
35-6A473	554P0D35473
35PH1	7K3P0N10
35PH114	7K3P0N12
35PM516	7K3P0S16
35PM522	7K3P0S22
39-1A053-080-SS-1	7X2C3N10
39-1A127	592M0
39-2A053	596E6M63
39-2A053-080-112	796C6N15
39-2A053-080-114	796C6N12
39-2A053-080-2	796C6N20
39-2A053-080-212	796C6N25
39-2A753	516P063P
39-2A913	596P0D54
39-2A953-429	596P0M50
39-2A953-463	596P0M63
39-3A053-080-1	793C3N10
39-3A053-080-114	793C3N12
39-3A053-080-12	793C3N05
39-3A053-080-34	793C3N07
39-3A053-080-SS-1	7X3C3N10
39-3A127	593M0
39-4A025-63M	577C763M
39-4A027-68	5T7M6
39-4A127	5T7M0
39-4A127-115	5T7M0-115
39-4A127-68	5T7M0-68
39-4A915-57	5T7P0D57
39-4A915-62	5T7P0D62
39-4A915-68	5T7P0D68
39-4A915-73	5T7P0D73
39-6A013	514P0D35
39-6A053	594B2M40
39-6A053-080-1	794C3N10
39-6A053-080-112	794C3N15
39-6A053-080-114	794C3N12
39-6A053-080-2	794C3N20
39-6A127	594M0
39-9A053-080-1	795C3N10
39-9A053-080-112	795C3N15
39-9A053-080-112M	7K5C3N15
39-9A053-080-114	795C3N12
39-9A053-080-114M	7K5C3N12
39-9A053-080-2	795C3N20
39-9A053-080-212	795C3N25
39-9A053-080-2M	7K5C3N20

Old Part Number	New Part Number
39-9A053-080-34	795C3N07
39-9A127	595M0
39-9A653	595C3M50
3H1	593P0N10
3H112	593P0N15
3H112SS	7X3P0N15
3H114	593P0N12
3H114SS	7X3P0N12
3H12	593P0N05
3H12SS	7X3P0N05
3H1SS	7X3P0N10
3H2	593P0N20
3H34	593P0N07
3H34SS	7X3P0N07
3HM32SS	7X3P0M32
3PH1	513P0N10
3PH114	513P0N12
3PH12	513P0N05
3PH34	513P0N07
3PHM1	553P0N10
3PHM114	553P0N12
3PHM12	553P0N05
3PHM25	553P0M25
3PM514	713P0S14
3PM514M	753P0S14
3PM516	713P0S16
3PM518	713P0S18
3PM518CG	713P0S18443
3PM520	713P0S20
3PM520CG	713P0S20443
3PM522	713P0S22
3PM522CG	713P0S22443
3PM522M	753P0S22
4MH2	5T7P0N20
4MH212	5T7P0N25
4MH3	5T7P0N30
51-AA058	511C7000
51-AA058Z0694	511C7Z0694
51-AA757	511M7
51-BA058	512C7000
51-BA757	512M7
51-CA058	513C7000
51-CA757	513M7
51-DA058	514C7000
51-DA757	514M7
59-AA058-1	711C7N10

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59-AA058-112	711C7N15
59-AA058-114	711C7N12
59-AA058-12	711C7N05
59-AA058-34	711C7N07
59-BA058-1	712C7N10
59-BA058-112	712C7N15
59-BA058-114	712C7N12
59-BA058-12	712C7N05
59-BA058-34	712C7N07
59-CA058-1	713C7N10
59-CA058-112	713C7N15
59-CA058-114	713C7N12
59-CA058-12	713C7N05
59-CA058-34	713C7N07
59-DA058-1	714C7N10
59-DA058-112	714C7N15
59-DA058-114	714C7N12
59-DA058-12	714C7N05
59-DA058-34	714C7N07
61-1A013	511P0D18
61-1A013-1	511P0N10
61-1A013-12	511P0N05
61-1A013-34	511P0N07
61-1A013-M20	511P0M20
61-1A023-12	511B3N05
61-1A023-34	511B3N07
61-1A027-601	511M3
61-1A053	511B3M20
61-1A053-080-1	711C3N10
61-1A053-080-114	711C3N12
61-1A053-080-12	711C3N05
61-1A053-080-34	711C3N07
61-1A053-080-M20	711C3M20
61-1A053-417	511B3M20
61-1A253-20M	511P020M
61-1A253-25P	511P025P
61-1A253-417	511P0M20
61-1A313	511P6D18
61-1A413	511P0D21
61-1A653	511C3M20
61-3A013	512P0D21
61-3A013-1	512P0N10
61-3A013-114	512P0N12
61-3A013-12	512P0N05
61-3A013-34	512P0N07
61-3A013-488	512P0D21488

OLD/NEW ACCESSORIES REFERENCES

Old Part Number	New Part Number
61-3A023-12	512B3N05
61-3A023-34	512B3N07
61-3A027	512M3
61-3A027-488	512M3488
61-3A053-080-1	712C3N10
61-3A053-080-112	712C3N15
61-3A053-080-114	712C3N12
61-3A053-080-12	712C3N05
61-3A053-080-34	712C3N07
61-3A083	512B3M25
61-3A253-25P	512P025P
61-3A253-32P	512P032P
61-3A253-417	512P0M20
61-3A346-488	
61-3A653	512C3M20
61-3A753	512P020P
61-6A013	513P0D30
61-6A013-1	513P0N10
61-6A013-114	513P0N12
61-6A013-12	513P0N05
61-6A013-34	513P0N07
61-6A023-1	513B3N10
61-6A023-12	513B3N05
61-6A023-34	513B3N07
61-6A027	513M3
61-6A053	513B3M25
61-6A053-080-1	713C3N10
61-6A053-080-112	713C3N15
61-6A053-080-114	713C3N12
61-6A053-080-12	713C3N05
61-6A053-080-34	713C3N07
61-6A253-32P	513P032P
61-6A253-40P	513P040P
61-6A473	513P0D30473
61-6A953-40M	593P040M
61-6A963	593P025M
61-9A253-463	515P0M63
61-9A253-63P	515P063P
65-1A013	551P0D18
65-1A013-34	551P0N07
65-1A027-601	551M3
65-3A013	552P0D21
65-3A013-1	552P0N10
65-3A027	552M3
65-6A013	553P0D30
65-6A013-1	553P0N10

Old Part Number	New Part Number
65-6A013-114	553P0N12
65-6A027	553M3
65-9A013-D25	555P0D25
65-9A013-D35	555P0D35
65-9A013-D45	555P0D45
65-9A013-D49	555P0D49
69-3A127	592M0
69-6A013-1-SS	7X3P0N10
6H1	594P0N10
6H112	594P0N15
6H112AL	7A4P0N15
6H112M	5K4P0N15
6H114	594P0N12
6H114M	5K4P0N12
6H12	594P0N05
6H12M	5K4P0N05
6H1M	5K4P0N10
6H34	594P0N07
6H34M	5K4P0N07
6PH1	514P0N10
6PH112	514P0N15
6PH114	514P0N12
6PH12	514P0N05
6PH1M	554P0N10
6PH34	514P0N07
6PHM-622	754P0S22
6PHM-629	754P0S29
6PM622	714P0S22
6PM622CG	714P0S22443
6PM625	714P0S25
6PM625CG	714P0S25443
6PM627	714P0S27
6PM629	714P0S29
87-3A053-420	593C7M40
87-3A253-32P	513P032P
87-3A963	593P025M
87-6A013	514P0D35
87-6A053	594C7M40
87-6A953-50M	594P050M
87-6A963	594P040M
87-9A823-420	595C7M40
87-9A963	595P050M
89-3A027	593M7
89-3A053-080-1	793C7N10
89-3A053-080-114	793C7N12
89-3A053-080-12	793C7N05

Old Part Number	New Part Number
89-3A053-080-34	793C7N07
89-6A027	594M7
89-6A027M	5K4M7
89-6A053-080-1	794C7N10
89-6A053-080-112	794C7N15
89-6A053-080-114	794C7N12
89-6A053-080-2	794C7N20
89-6A053-080-34	794C7N07
89-9A027	595M7
89-9A027M	5K5M7
89-9A053-080-1	795C7N10
89-9A053-080-112	795C7N15
89-9A053-080-114	795C7N12
89-9A053-080-114-B&L	795C7N12C7
89-9A053-080-2	795C7N20
89-9A053-080-34	795C7N07
9H1	595P0N10
9H112	595P0N15
9H112M	5K5P0N15
9H114	595P0N12
9H114M	5K5P0N12
9H1M	5K5P0N10
9H2	595P0N20
9H2AL	7A5P0N20
9H2-AL	7A5P0N20
9H2CG	595P0N20443
9H2M	5K5P0N20
9H34	595P0N07
9H34M	5K5P0N07
9-LD12-37	61-CA593
9MH1	795P0N10
9MH112	795P0N15
9MH112M	7K5P0N15
9MH114	795P0N12
9MH114M	7K5P0N12
9MH2	795P0N20
9MH212	795P0N25
9MH212M	7K5P0N25
9MH2M	7K5P0N20
9MH34	795P0N07
9PH1	515P0N10
9PH112	515P0N15
9PH114	515P0N12
9PH2	515P0N20
9PH2CG	515P0N20443
9PH34	515P0N07

Old Part Number	New Part Number
9PH34CG	515P0N07443
9PM622	715P0S22
9PM625	715P0S25
9PM627	715P0S27
9PM629	715P0S29
DN63R	19-6A126
FDP2	61-3A346
FDP3	61-6A346
FDP6	31-6A346
FDP9SS	
FH111	512P0D21
FH111-488	512P0D21488
FH111CG	512P0D21443
FH111M	552P0D21
FH311	513P0D30
FH311-473	513P0D30473
FH311-488	513P0D30488
FH311CG	513P0D30443
FH311M	553P0D30
FH311M-473	553P0D30473
FH611	514P0D35
FH611-473	514P0D35473
FH611CG	514P0D35443
FH611M	554P0D35
H091U1	591P0N10
H091U1-185	571P0N10185
H091U12	591P0N05
H091U12-185	571P0N05185
H091U12-SS	7X1P0N05
H091U34	591P0N07
H091U34-185	571P0N07185
H091U34-SS	7X1P0N07
H93DNU112	593P0N15
MA1	591M4
MA10	595M3
MA10M	5K5M3
MA110	795M3
MA2	592M3
MA20	596M6
MA220	796M4
MA2SS	7X2M3
MA3	593M3
MA3SS	7X3M3
MA6	594M3
MA660	794M3
MA6M	5K4M3

Old Part Number	New Part Number
MAB6	794M3L
MAB6M	7K4M3L
MAFS1	791M3FS
MAFS2	792M3FS
MAFS3	793M3FS
MB10	7T5F0000
MB101	7T5F0N10
MB10112	7T5F0N15
MB10112M	7K5F0N15
MB10114	7T5F0N12
MB10114M	7K5F0N12
MB102	7T5F0N20
MB10212	7T5F0N25
MB10212M	7K5F0N25
MB102M	7K5F0N20
MB20	7T6F0000
MB20112	7T6F0N15
MB20114	7T6F0N12
MB202	7T6F0N20
MB20212	7T6F0N25
MB22	7T6F0000XL
MB2202	7T6F0N20XL
MB2203	7T6F0N30XL
MB22212	7T6F0N25XL
MB3-0	7T1F0000
MB31	7T1F0N10
MB3112	7T1F0N15
MB3114	7T1F0N12
MB312	7T1F0N05
MB31-34T	7T1F0C22
MB31SS	7X1F0N10
MB334	7T1F0N07
MB334-12B	7T1F0C9
MB334-SS	7X1F0N07
MB3SS	7X1F0000
MB40DR-20	7T7F0N20
MB40DR-25	7T7F0N25
MB40DR-30	7T7F0N30
MB40DR-35	7T7F0N35
MB40DR-40	7T7F0N40
MB6	7T4F0000
MB6-0	7T4F0000
MB61	7T4F0N10
MB6112	7T4F0N15
MB6112M	7K4F0N15
MB6114	7T4F0N12

Old Part Number	New Part Number
MB6114M	7K4F0N12
MB612	7T4F0N05
MB61M	7K4F0N10
MB62	7T4F0N20
MB62M	7K4F0N20
MB634	7T4F0N07
MB634TB	7T4F0N07C2
MC212	512B3N05
MC234	512B3N07
MC31	513B3N10
MC312	513B3N05
MC334	513B3N07
MC61	514B3N10
MC6114	514B3N12
MC612	514B3N05
MC634	514B3N07
MP10	515M3
MP10M	555M3
MP2	512M3
MP2M	552M3
MP3	513M3
MP3M	553M3
MP6	514M3
MP6M	554M3
MS1	591M0
MS10	595M0
MS10M	5K5M0
MS2	592M0
MS20	596M0
MS3	593M0
MS6	594M0
MS6M	5K4M0
MSPN	591M0
MSPN-185	571M0

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Part Number	Pg	Part Number	Pg	Part Number	Pg	Part Number	Pg	Part Number	Pg
01-2A010	105	01-N8163	103	4-2901-C	161	5T7M0-115	96	7K5C3N20	200
01-2A010-185	105	01-N8165	103	4-2901-D	161	5T7M6	96	7K5C3N25	200
01-2A010-185-B	105	01-N8167	103	4-3301-E	161	5T7M6-68	96	7K5C7N12	200
01-2A010-185-T	105	01-NA014	77	4-3301-F	161	5T7P0D57	96	7K5C7N15	200
01-2A010-B	105	01-NA014	105	4-3301-G	161	5T7P0D62	96	7K5C7N20	200
01-2A010-T	105	01-NA024	78	4-3401-E	161	5T7P0D68	96	7K5C7N25	200
01-2A011	105	01-NA024	106	4-3401-F	161	5T7P0D73	96	7K5P0N07	200
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CBSS-63-*****	154	CG1143A	165	PFLUG1-90	124		
CBW-63-*****	153	CG1143AM	165	PFLUG2	123		
CBWSS-63-*****	154	CG1143P	165	PFLUG2-90	124		
CD13NA-BXA	166	CG1144A	165	PFLUG3	123		
CD16NA-BXA	166	CG1144AM	165	PFLUG3-90	124		
CD21NA-BXA	166	CG1145P	165	PFLUG4	123		
CD21NR-BXA	166	CG2001A	165	PFLUG4-90	124		
CD29NA-BXA	166	CG2001AM	165	PFLUG10	123		
CD29NR-BXA	166	CG2001P	165	PFLUG10-90	124		
CG121A	165	CG2002A	165	PFLUG20	123		
CG121AM	165	CG2002AM	165	PFLUG20-90	124		
CG122A	165	CG2002P	165	PFLUG30	123		
CG122AM	165	CG2003A	165	PFLUG30-90	124		
CG123A	165	CG2003AM	165	PFLUG40	123		
CG123AM	165	CG2003P	165	PFLUG40-90	124		
CG124A	165	CG2004A	165	PFLUG250	123		
CG124AM	165	CG2004AM	165	PFLUG250-90	124		
CG125A	165	CG2005A	165	PFLUG300	123		
CG125AM	165	CG2005AM	165	PFLUG300-90	124		
CG127P	165	CG2006A	165	PFLUG350	123		

Complimentary Products

Lighting



Control Stations



Junction Boxes



Flameproof Enclosures



Earthing Systems



Visual Signals



Cable Glands & Fittings



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