

# 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.

## DS20 Switch-Rated Plugs & Receptacles – 20 A

### 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.



### 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.



### 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.



### 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 deenergized.



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# 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	10	.75 hp
208V	30	3 hp
240V	30	5 hp
480V	30	7.5 hp
600V	30	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 258 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

For international configurations and ratings (IEC, CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact customer service at 800-433-7642.

## 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
Straight Insertion	Recept # - 352
Self-Ejecting Connector Release	Recept # - 354
Mushroom Pawl	Recept # - 375
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375-843
Screw-Type Locking 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
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.


**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 167.

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

POLY ANGLE	Angle	Part #	Notes
	70°	512M7	Panel mounting only.


METAL ANGLE	Angle	Part #
	0°	592M0


METAL ANGLE	Angle	Part #
	30°	592M3


METAL ANGLE	Angle	Part #	Notes
	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	
	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	
	30°	3/4"	712C3N07	* Interior volume with receptacle installed.
	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 164	Mount to existing boxes.

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