

# DSDC

## DC rated Plug and Receptacle

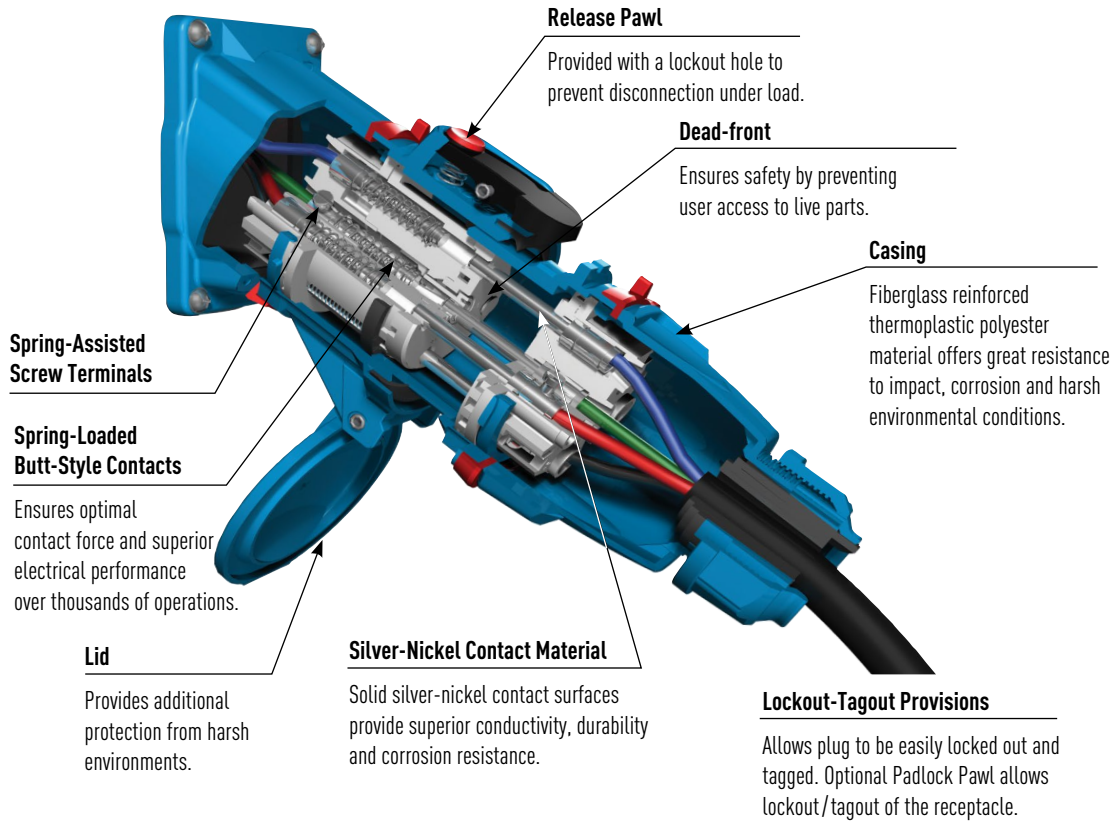
### Main Advantages

- ▶ Rated for Direct Currents
- ▶ Standard locking feature enables locking in the connected and disconnected mode
- ▶ Robust Metal or Poly construction



- ▶ Features and Ratings p. 118
- ▶ DSDC p. 119

# PRODUCT FEATURES



## General Ratings

|                      |  |
|----------------------|--|
| <b>Amperage</b>      | 130 VDC: 20 to 200 A                   |
|                      | 250 VDC: 20 to 200 A                   |
|                      | 600 VDC: 15 to 100 A                   |
|                      | 750 VDC: 10 to 30 A                    |
| <b>Voltage</b>       | 130 VDC, 250 VDC, 600 VDC or 750 VDC   |
| <b>Environmental</b> | Type 3R, IP54/IP55**, Type 4X optional |
| <b>Temperature</b>   | 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./ NOM 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A quarter turn of the plug allows it to be totally withdrawn from the receptacle.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**  
DSDC1 and DSDC3:  
Type 3R/IP54/IP55 (Standard)  
DSDC6, DSDC9 and DSDC2:  
Type 4X/IP69 (Standard)
- **Temperature Range**  
Min -40°F/Max 140°F  
See pg 266 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 Options

| Options                         | Part #                |
|---------------------------------|-----------------------|
| Type 4X Watertightness          | <b>Recept # - 4X</b>  |
| Metal Pawl (on poly receptacle) | <b>Recept # - 824</b> |
| Closed Lid Configuration        | <b>Recept # - NC</b>  |

DSDC2 models are also provided with a screw locking pawl to provide an alternative means of preventing accidental disconnection under load.

### Inlet Options

| Options                | Part #                |
|------------------------|-----------------------|
| Type 4X Watertightness | <b>Inlet # - 4X</b>   |
| With no Lockout Hole   | <b>Inlet # - A155</b> |

### Receptacle (female)



### Inlet (male)



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

### North American UL/CSA Configurations

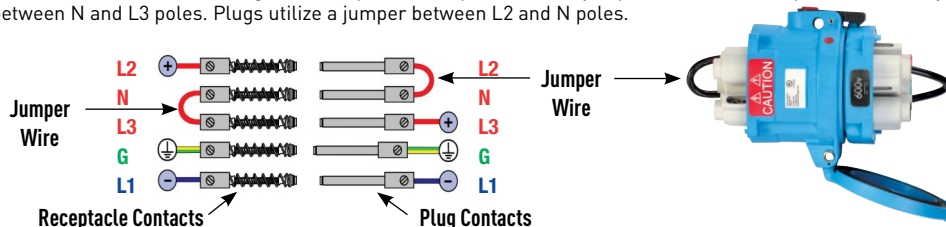
| Voltage | Polarity   | Part # |              | Part #       |              |              |
|---------|------------|--------|--------------|--------------|--------------|--------------|
|         |            | Poly   | Metal        | Poly         | Metal        |              |
| DSDC1   | 130V/20 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:** \* Polarity for connection purposes. Devices have additional contacts used for load splitting. See information below.

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.

## 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 243-252 for detailed information on these options

# INSTALLATION ACCESSORIES

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 - .82"  | 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 page 169.



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

For DSDC dimensions use the cross-reference chart below and refer to DS dimensions on pgs 57-58.

|       | 1/2" NPT | 3/4" NPT | 1" NPT   | 1 1/4" NPT |
|-------|----------|----------|----------|------------|
| DSDC1 | 512B3N05 | 512B3N07 | -        | -          |
| DSDC3 | 513B3N05 | 513B3N07 | 513B3N10 | -          |
| DSDC6 | 514B3N05 | 514B3N07 | 514B3N10 | 514B3N12   |

| 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                  | -                   |



\* Set of Two (2)



For Inlets/Plugs Only



For Inlets/Plugs Only



For Inlets/Plugs Only

**MISC. ACCESSORIES**

|       | Finger Drawplates | Protective Inlet/Plug Cap | Poly Padlockable Inlet/Plug Cap | Spring-Loaded Padlockable Inlet/Plug Cap |
|-------|-------------------|---------------------------|---------------------------------|--|
| DSDC1 | 61-3A346          | 31-1A426                  | DS1PC                           | 31-1A226                                 |
| DSDC3 | 61-6A346          | 31-3A426                  | DS3PC                           | 31-3A226                                 |
| DSDC6 | 31-6A346          | 31-6A426                  | DS6PC                           | 31-6A226+                                |
| DSDC9 | **                | 31-9A426                  | DS9MC***                        | -  |
| DSDC2 | **                | 39-2A426                  | DS2MC***                        | -  |

\* M3FS 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.

\* 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.