

DSDC

Direct Current



Main Advantages

- Rated for Direct Current
- Standard locking feature enables locking in the connected and disconnected position.
- Robust Metal or Poly constructions

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

SCAN
ME >>



PRODUCT FEATURES

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.

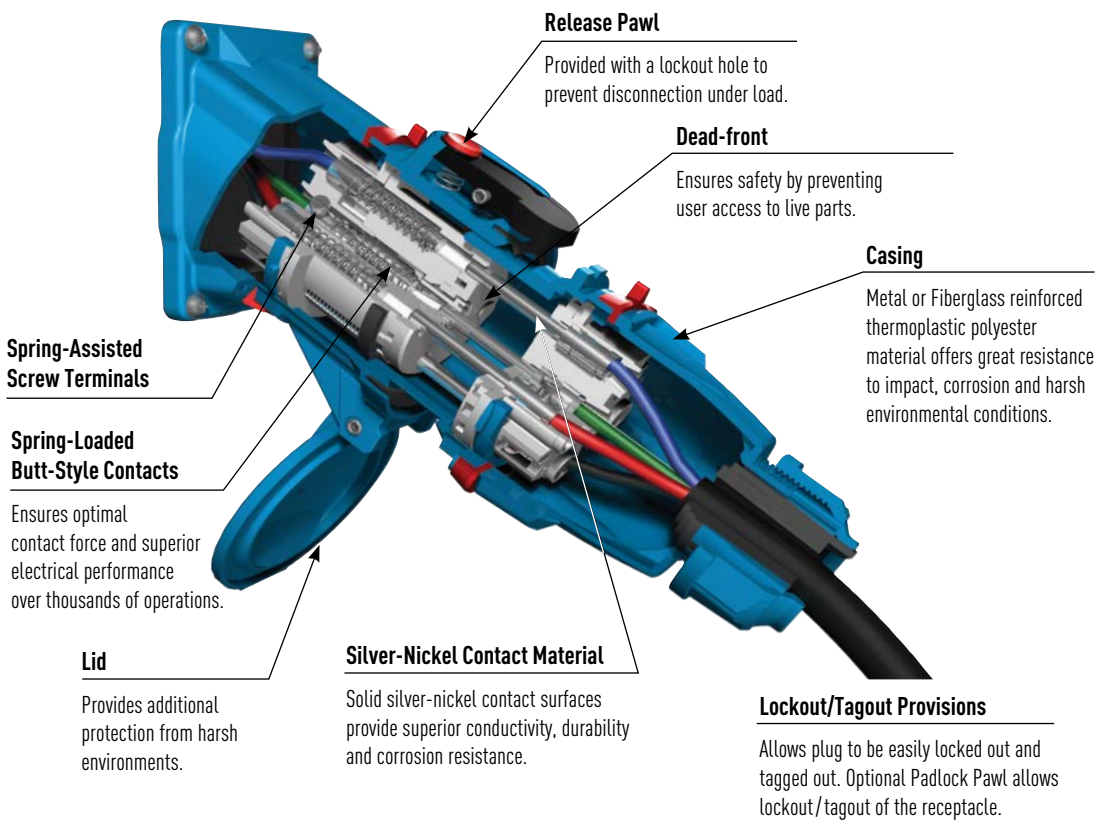


A 30° counter-clockwise turn of the plug allows it to be totally withdrawn from the receptacle. This is done in complete safety as the circuit is already de-energized.



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.



Release Pawl
Provided with a lockout hole to prevent disconnection under load.

Dead-front
Ensures safety by preventing user access to live parts.

Casing
Metal or Fiberglass reinforced thermoplastic polyester material offers great resistance to impact, corrosion and harsh environmental conditions.

Spring-Assisted Screw Terminals

Spring-Loaded Butt-Style Contacts
Ensures optimal contact force and superior electrical performance over thousands of operations.

Lid
Provides additional protection from harsh environments.

Silver-Nickel Contact Material
Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.

Lockout/Tagout Provisions
Allows plug to be easily locked out and tagged out. Optional Padlock Pawl allows lockout/tagout of the receptacle.

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 or Type 4X/IP69/IP69K
Temperature	Min -40°F/Max 140°F

Highlighted Feature

Receptacle Lockout Hole



All DSDC models are provided with a 5/16" 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	NOM
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	NOM-003-SCFI-2014

DSDC Direct Current

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/IP69K (Standard)*
*Also meets IP66/IP67 requirements
- **Temperature Range**
Min -40°F/Max 140°F
See pg 260 for temperatures outside of this range.
- **Wiring Capacity**
Based on THHN wire sizes.
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 C22.2 NO. 182.1 listed up to 250 VDC
NOM
750 VDC devices pass UL testing, but are outside the scope of the standard so they cannot be listed.

Receptacle Options

Part

Type 4X
Watertightness
(for DSDC1 and DSDC3)

Recept # -4X

Metal Pawl
(on poly receptacle)

Recept # -824

Self-Returning
Lid

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

Receptacle (female)



Inlet (male)



Remember to add installation accessories to your order

North American UL/CSA Configurations

NOTE: Poly devices should not be inter-mated with metal devices

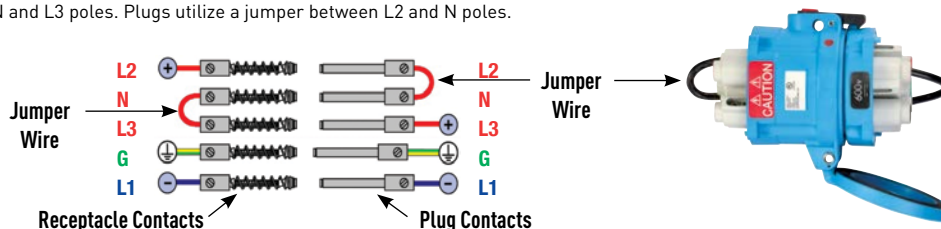
VOLTAGE	POLARITY		PART #		PART #	
			POLY	METAL	POLY	METAL
DSDC1	130 V/20 A	2P+G	33-14109	-	33-18109	-
DSDC3	130 V/30 A	2P+G	33-34109	-	33-38109	-
DSDC6	130 V/60 A	2P+G	33-64109	37-64109	33-68109	37-68109
DSDC9	130 V/100 A	2P+G	33-94109	37-94109	33-98109	37-98109
DSDC2	130 V/200 A	2P+G	-	37-24109	-	37-28109
DSDC1	250 V/20 A	2P+G	33-14209	-	33-18209	-
DSDC3	250 V/30 A	2P+G	33-34209	-	33-38209	-
DSDC6	250 V/60 A	2P+G	33-64209	37-64209	33-68209	37-68209
DSDC9	250 V/100 A	2P+G	33-94209	37-94209	33-98209	37-98209
DSDC2	250 V/200 A	2P+G	-	37-24209	-	37-28209
DSDC1	600 V/15 A	2P+G*	33-14058-S82	-	33-18058-S82	-
DSDC3	600 V/30 A	2P+G*	33-34058-S82	-	33-38058-S82	-
DSDC6	600 V/50 A	2P+G*	33-64058-S82	37-64058-S82	33-68058-S82	37-68058-S82
DSDC9	600 V/60 A	2P+G*	33-94058-S82	-	33-98058-S82	-
DSDC2	600 V/100 A	2P+G*	-	37-24058-S82	-	37-28058-S82
DSDC1	750 V/10 A	2P+G*	33-14158-S69	-	33-18158-S69	-
DSDC3	750 V/20 A	2P+G*	33-34158-S69	-	33-38158-S69	-
DSDC6	750 V/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 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 237-246 for detailed information on these options



INSTALLATION ACCESSORIES

When properly installed, all accessories meet or exceed the environmental ratings of the devices they are mounted to; unless otherwise noted.

HANDLES



Poly Handle

NEW



DSDC1 shown with drawplates



Poly Handle

DSDC1, 3, 6
shown



Poly Handle

DSDC9, 2
shown

	CABLE RANGE	POLY HANDLE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
DSDC1	.200-.820"	512P0D21	512P0N05 with drawplates	512P0N07 with drawplates	512P0N10 with drawplates	512P0N12 with drawplates	-	-	-
			512P0N05E2615	512P0N07E2615	512P0N10E2615	512P0N12E2615	-	-	-
DSDC3	.390-1.180"	513P0D30	513P0N05	513P0N07	513P0N10	513P0N12	-	-	-
DSDC6	.511-1.377"	514P0D35	514P0N05	514P0N07	514P0N10	514P0N12	514P0N15	-	-
DSDC9	-	-	-	515P0N07	515P0N10	515P0N12	515P0N15	515P0N20	-
DSDC2	-	-	-	-	-	-	516P0N15	516P0N20	516P0N25

Notes:

- Finger draw plates are recommended for easier connector closure on cord to cord assemblies.
- For available cord grips, see pg 231.

For metal accessories, see the cross-reference chart below.



DSDC1, 3, 6
shown

Metal Box



DSDC9, 2
shown

Metal Box

BOXES

	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
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 configurations, contact Customer Service.



Poly Conduit Box For poly devices only

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

For DSDC dimensions and additional accessories use the cross-reference chart below.

	DIMENSIONS	ACCESSORIES
DSDC1	pg 55-56	pg 44
DSDC3	pg 55-56	pg 46
DSDC6	pg 55-56	pg 48
DSDC9	pg 55-56	pg 50
DSDC2	pg 55-56	pg 52

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	-

- * 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.

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 all assembly applications, for facilitated mating.

** 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.