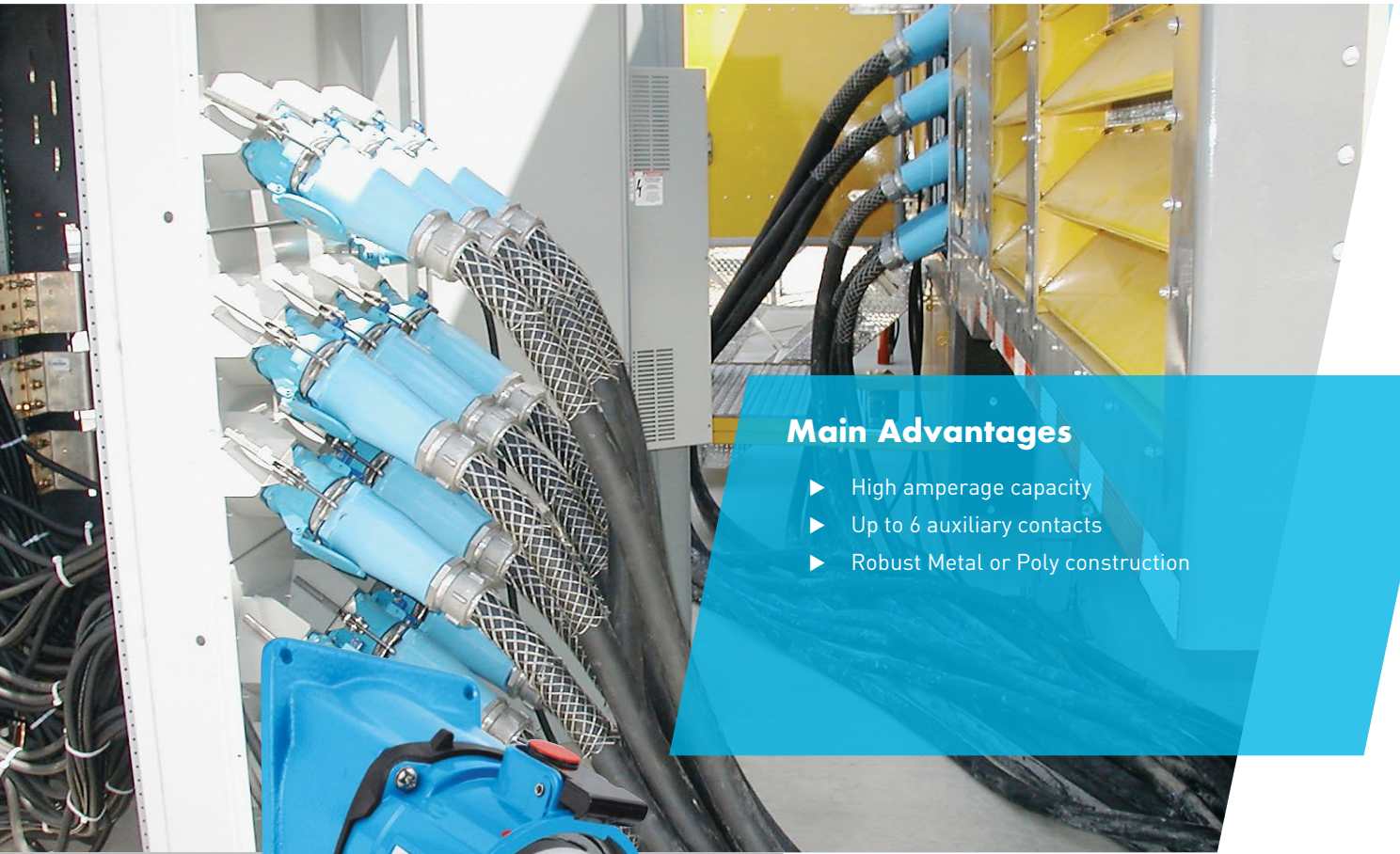


DR Standard Duty plug and receptacle



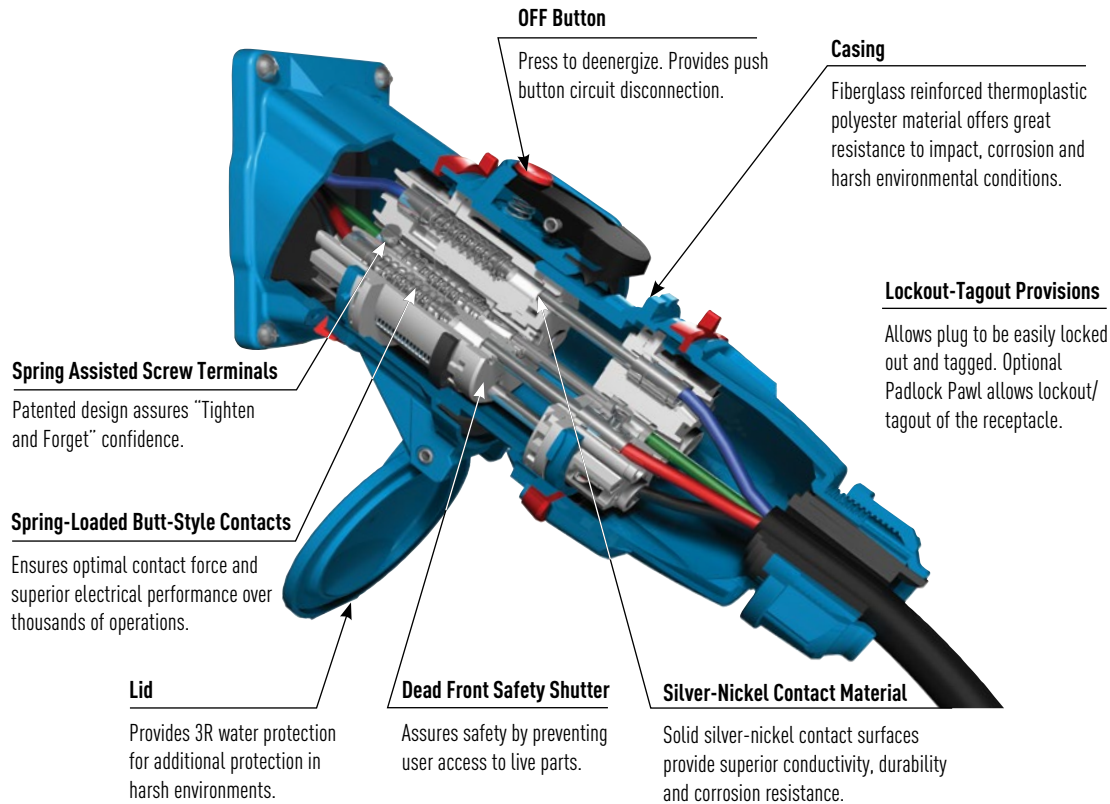
Main Advantages

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



- | | | | |
|------------------------|--------|---------------|--------|
| ▶ Features and Ratings | p. 97 | ▶ DR250 | p. 106 |
| ▶ DR30 | p. 98 | ▶ DR400 | p. 108 |
| ▶ DR50 | p. 100 | ▶ Spare parts | p. 110 |
| ▶ DR100 | p. 102 | ▶ Dimensions | p. 112 |
| ▶ DR150 | p. 104 | | |

PRODUCT FEATURES



General Ratings

Amperage	30 to 400A
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 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Rotating the 'dead' plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.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 – 30A

UL/CSA Ratings

- **Max Amperage & Voltage**
30A, 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 253 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

For international configurations and ratings (IEC, CE) visit 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

Inlet Options

Suffix

With 2 Auxiliary/Pilot Contacts	Recept # - 972	With 2 Auxiliary/Pilot Contacts	Inlet # - 972
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 230-239 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
 1/2"	512P0N05	592P0N05
 3/4"	512P0N07	592P0N07
 1"	512P0N10	592P0N10
 1 1/4"	512P0N12	-

HANDLE w/CORD GRIP Cable Range	Poly	Metal
 .438 - .500"	712P0BP3	792P0BS3
 .500 - .562"	712P0BP4	792P0BS4
 .562 - .625"	712P0BP5	792P0BS5
 .625 - .750"	712P0CP4	792P0CS4

NYLON HANDLE w/Cable Range	Part #
 .20 - .82"	512P0D21


POLY HANDLE W/CLAMP & BUSHING w/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


For available cord grips, see pgs 178.


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.

ANGLES



NYLON ANGLE	Part #
 30°	512M3

METAL 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.
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BOXES






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

* 7.0 in³

POLY WALL BOX w/NPT	Part #
 70° 1/2" - 1 1/4"	512C7000





* 82.0 in³





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

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

* 75.0 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


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

* 28.7 in³

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

PROTECTIVE CAP	Part #	Description
 31-1A426	31-1A426	For Male Devices Only.

PADLOCKABLE PLUG CAP	Part #	Description
 DS1PC	DS1PC	For Male Devices Only.

INLET SPRING-LOADED CAP	Part #
 31-1A226	31-1A226

EASY RETROFIT ADAPTER PLATES	Part #	Description
 see pg 175	see pg 175	Mount to existing boxes.

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

DR50 Standard Duty Plugs & Receptacles – 50A

UL/CSA Ratings

- **Max Amperage & Voltage**
50A, 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 253 for temps below -15°F.
- **Wiring Capacity**
Min 14 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

For international configurations and ratings (IEC, CE) visit 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

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 230-239 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

HANDLE w/CORD GRIP Cable Range	Poly	Metal
 .625 - .750"	713P0CP4	793P0CS4
 .770 - .875"	713P0DP2	793P0DS1
 .875 - 1.000"	713P0DP3	793P0DS3
 1.000 - 1.125"	713P0EP2	793P0ES2

NYLON HANDLE w/Cable Range	Part # Poly	Part # Metal
 .39 - 1.18"	513P0D30	

Finger draw plates are recommended for easier connector closure on cord to cord assemblies.






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

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

Makes connector closures easier



For available cord grips, see pgs 178.
For a guideline of NPT based cable ranges, see DR30 on pg 99.

ANGLES

NYLON ANGLE	Angle	Part # Poly	Part # Metal
 30°	30°	513M3	
 0°	0°	593M0	
 30°	30°	593M3	
 FS/FD Box 30°	FS/FD Box 30°	793M3FS	
 70°	70°	593M7	


* 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 # Poly	Part # Metal
 30° 3/4"	30°	3/4"	513B3N07	
 30° 1"	30°	1"	513B3N10	






* 13.5 in³

For poly devices only
* Interior volume with receptacle installed.

POLY WALL BOX w/NPT	Angle	Size	Part # Poly	Part # Metal
 70° 1/2" - 1 1/2"	70°	1/2" - 1 1/2"	513C7000	





* 179.41 in³





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

POLY ANGLE WITH ALUMINUM WALL BOX w/NPT	Angle	Size	Part # Poly	Part # Metal
 70° 1/2"	70°	1/2"	713C7N05	
 70° 3/4"	70°	3/4"	713C7N07	
 70° 1"	70°	1"	713C7N10	
 70° 1 1/4"	70°	1 1/4"	713C7N12	
 70° 1 1/2"	70°	1 1/2"	713C7N15	

* 170.0 in³

* Interior volume with receptacle installed.

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


METAL BOX WITH NYLON ANGLE w/NPT	Angle	Size	Part # Poly	Part # Metal
 30° 1/2"	30°	1/2"	713C3N05	
 30° 3/4"	30°	3/4"	713C3N07	
 30° 1"	30°	1"	713C3N10	
 30° 1 1/4"	30°	1 1/4"	713C3N12	

* 29.6 in³

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	Part # Poly	Part # Metal
	61-6A346	


Set of Two (2)
Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE CAP	Part # Poly	Part # Metal
	31-3A426	

For Male Devices Only.

PADLOCKABLE PLUG CAP	Part # Poly	Part # Metal
	DS3PC	

Poly
For Male Devices Only.

INLET SPRING-LOADED CAP	Part # Poly	Part # Metal
	31-3A226	

EASY RETROFIT ADAPTER PLATES	Part # Poly	Part # Metal
	see pg 175	

Mount to existing boxes.

RECEPTACLE LOCKING PIN	Part # Poly	Part # Metal
	LP-843	

Requires Padlockable Pawl option (-843) on receptacle.

DR100 Standard Duty Plugs & Receptacles – 100A

UL/CSA Ratings

- **Max Amperage & Voltage**
100A, 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 253 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

For international configurations and ratings (IEC, CE) visit 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

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
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		
180° Opening Lid (metal only)	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.

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 = 31-680243-K04-972

! See pages 230-239 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





HANDLE w/CORD GRIP Cable Range	Poly	Metal
 1.000 - 1.125"	714P0EP2	-
 1.270 - 1.470"	714P0EP3	-
 1.250 - 1.375"	-	794P0ES4
 1.438 - 1.562"	-	794P0FS2
 1.562 - 1.688"	-	794P0FS3

For metal devices only

NYLON HANDLE w/Cable Range

 .51 - 1.38"	514P0D35
---	----------

POLY HANDLE W/CLAMP & BUSHING w/Cable Range

 1.250 - 1.375"	714P0S22
 1.438 - 1.562"	714P0S25
 1.562 - 1.688"	714P0S27
 1.688 - 1.812"	714P0S29

POLY HANDLE W/BUILT IN DRAW GRIPS w/Cable Range

 .51 - 1.38"	514P0D35473	Makes connector closures easier.
---	-------------	----------------------------------

For available cord grips, see pg 178.


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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.

ANGLES

NYLON ANGLE

 30°	514M3
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METAL ANGLE

 0°	594M0	
 30°	594M3	
 30°	794M3L	
 Oversized 30°	794M3	Mounts on oversize box only. Order with 715FDNxx. See pg 48.
 70°	594M7	

BOXES

POLY CONDUIT ENTRY w/NPT


	Part #
 30° 1/2"	514B3N05
 30° 3/4"	514B3N07
 30° 1"	514B3N10
 30° 1 1/4"	514B3N12

* 27.7 in³

For poly devices only

* Interior volume with receptacle installed.

POLY WALL BOX w/NPT

 70° 1/2" - 2"	514C7000	70° poly boxes are not drilled. Contact customer service if factory drilling is required.
---	----------	---

* 181.24 in³

* Interior volume with receptacle installed.

POLY ANGLE WITH ALUMINUM WALL BOX w/NPT

 70° 1/2"	714C7N05
 70° 3/4"	714C7N07
 70° 1"	714C7N10
 70° 1 1/4"	714C7N12
 70° 1 1/2"	714C7N15

* 170.0 in³

* 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

METAL BOX WITH NYLON ANGLE w/NPT

 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 Nylon Angle
* 59.4 in³ Metal Angle

* 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 CAP

 31-6A426	For Male Devices Only.
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PADLOCKABLE PLUG CAP

 DS6PC	Poly – For Male Devices Only.
 DS6MC	Aluminum – For Male Devices Only.

INLET SPRING-LOADED CAP


 31-6A226	
--	--

RECEPTACLE LOCKING PIN

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

DR150 Standard Duty Plugs & Receptacles – 150A

UL/CSA Ratings

- **Max Amperage & Voltage**
150A, 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 253 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

For international configurations and ratings (IEC, CE) visit meltric.com/international-catalog or contact customer service at 800.433.7642.

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[†]	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		
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.

! See pages 230-239 for detailed information on these options





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





Order Example: 480V DR150 + 2 auxiliary contacts
DR150 Poly inlet 3P+G = 31-982043-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
For metal devices only 2"	515P0N20	595P0N20




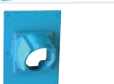

HANDLE w/CORD GRIP	Cable Range	Poly	Metal
	1.270 - 1.470"	715P0EP3	-
	1.250 - 1.375"	-	795P0ES4
	1.438 - 1.562"	-	795P0FS2
	1.562 - 1.688"	-	795P0FS3
For metal devices only 1.520 - 1.860"	1.520 - 1.860"	715P0GP2	-

OVERSIZED METAL HANDLE w/NPT	Part # Poly	Part # Metal
 3/4"	795P0N07	-
 1"	795P0N10	-
 1 1/4"	795P0N12	For available cord grips, see pg 178.
 1 1/2"	795P0N15	For metal devices only.
 2"	795P0N20	-
 2 1/2"	795P0N25	-




SANTOPRENE HANDLE w/Cable Range	Part # Poly	Part # Metal
 .70 - 1.00"	555P0D25	-
 1.00 - 1.375"	555P0D35	-
IP66/IP67 1.375 - 1.771"	555P0D45	-

POLY HANDLE W/CLAMP & BUSHING w/Cable Range	Part # Poly	Part # Metal
 1.250 - 1.375"	715P0S22	-
 1.438 - 1.562"	715P0S25	-
 1.562 - 1.688"	715P0S27	-
 1.688 - 1.812"	715P0S29	-




ANGLES

NYLON ANGLE	Angle	Part # Poly	Part # Metal
 30°	30°	515M3	-
METAL ANGLE			
 0°	0°	595M0	-
 30°	30°	595M3	-
 Oversized 30°	Oversized 30°	795M3	Mounts on oversize metal box only. Order with 7T6F0N25XL. See pg 107.
 70°	70°	595M7	-

BOXES

NYLON ANGLE WITH METAL BOX w/NPT	Angle	Depth	Part # Poly	Part # Metal
 30°	30°	1 1/4"	715C3N12	-
 30°	30°	1 1/2"	715C3N15	-
 30°	30°	2"	715C3N20	-
* 108.7 in ³ 30°	30°	2 1/2"	715C3N25	-

* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX w/NPT	Angle	Depth	Part # Poly	Part # Metal
 30°	30°	1 1/4"	795C3N12	-
 30°	30°	1 1/2"	795C3N15	-
 30°	30°	2"	795C3N20	-
* 111.8 in ³ 30°	30°	2 1/2"	795C3N25	-

* Interior volume with receptacle installed.

METAL BOX w/NPT	Angle	Depth	Part # Poly	Part # Metal
 0°	0°	1 1/4"	7T5F0N12	-
 0°	0°	1 1/2"	7T5F0N15	-
 0°	0°	2"	7T5F0N20	-
 0°	0°	2 1/2"	7T5F0N25	-


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"		


NPT sizes are determined by the cable diameter and third party cord grip.


MISCELLANEOUS ACCESSORIES

PROTECTIVE CAP	Part # Poly	Part # Metal
 35-9A126	35-9A126	For watertight seal, the male inlet must also be ordered with the 'No Lockout Hole' option (-A155). For Male Devices Only.

PADLOCKABLE PLUG CAP	Part # Poly	Part # Metal
 DS9MC	DS9MC	Aluminum - For Male Devices Only.

CORD GRIP with MESH	Part # Poly	Part # Metal
	see pg 178	-

EASY RETROFIT ADAPTER PLATES	Part # Poly	Part # Metal
	see pg 175	Mount to existing boxes.

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

DR250 Standard Duty Plugs & Receptacles – 250A

UL/CSA Ratings

- **Max Amperage & Voltage**
250A, 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 271 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



Standard DR250 lid opens to 90°

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

For international configurations and ratings (IEC, CE) visit 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

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


Order Example: 480V DR250 + 2 auxiliary contacts
DR250 Metal inlet 3P+G = 39-28243-K04-972


See pages 248-257 for detailed information on these options


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
 1"	-	596P0N10
1 1/4"	-	596P0N12
1 1/2"	516P0N15	596P0N15
2"	516P0N20	596P0N20
2 1/2"	516P0N25	596P0N25
For metal devices only 3"	-	596P0N30





HANDLE w/CORD GRIP	Cable Range	Poly	Metal
	1.688 - 1.812"	-	796P0GS1
	1.812 - 1.938"	-	796P0GS2
	1.850 - 2.190"	716P0GP3	-
	1.938 - 2.062"	-	796P0GS3
	2.062 - 2.188"	-	796P0GS4
	2.188 - 2.312"	-	796P0GS5
	2.312 - 2.438"	-	796P0GS6
	2.437 - 2.625"	-	796P0KS1
	2.625 - 2.812"	-	796P0KS2

OVERSIZED METAL HANDLE w/NPT	Part # Poly	Part # Metal
 1 1/4"	597P0N12	
1 1/2"	597P0N15	
2"	597P0N20	For Metal Devices Only.
2 1/2"	597P0N25	
3"	597P0N30	

SANTOPRENE HANDLE w/Cable Range	Part # Poly	Part # Metal
 1.000 - 1.375"	556P0D35	
1.375 - 1.750"	556P0D45	
IP66/IP67 1.750 - 1.900"	556P0D49	

For available cord grips, see pg 178.

ANGLES

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


BOXES

BOX ANGLE WITH METAL BOX w/NPT	Part # Poly	Part # Metal
 60°	1 1/2"	796C6N15
60°	2"	796C6N20
* 248.4 in ³ 60°	2 1/2"	796C6N25

* Interior volume with receptacle installed.

METAL BOX w/NPT	Part # Poly	Part # Metal
 0°	1 1/2"	7T6F0N15
0°	2"	7T6F0N20
0°	2 1/2"	7T6F0N25

* Interior volume with receptacle installed.


OVERSIZED METAL BOX w/NPT	Part # Poly	Part # Metal
 0°	2 1/2"	7T6F0N25XL

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.

MISCELLANEOUS ACCESSORIES

PROTECTIVE CAP	Part # Poly	Part # Metal
	35-2A126	For watertight seal, the male inlet must also be ordered with the 'No Lockout Hole' option (-A155). For Male Devices Only.

PADLOCKABLE PLUG CAP	Part # Poly	Part # Metal
	DS2MC	Aluminum – For Male Devices Only.

CORD GRIP with MESH	Part # Poly	Part # Metal
	see pg 178	

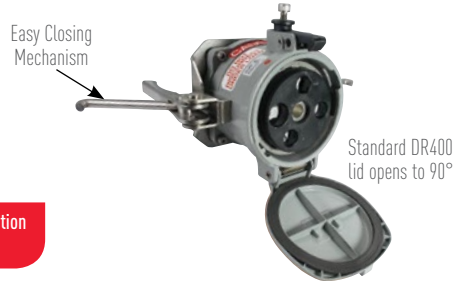
RECEPTACLE LOCKING PIN	Part # Poly	Part # Metal
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR400 Standard Duty Plugs & Receptacles – 400A

UL/CSA Ratings

- Max Amperage & Voltage**
 400A Max to 480 VAC
 350A Max to 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
- Wiring Capacity**
 Min 2 AWG Max 350 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)



Inlet (male)



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

North American UL/CSA Configurations

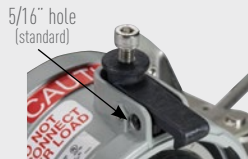
Voltage	Polarity	Part # Metal	Part # Metal
208V	3P+G+2PIL	39-44163-172	39-48163-172
250V	3P+G+2PIL	39-44073-172	39-48073-172
480V	3P+G+2PIL	39-44043-172	39-48043-172
600V	3P+G+2PIL	39-44143-172	39-48143-172

* 350A only for 600V models
 Other voltage configurations are available - contact customer service at 800.433.7642

For international configurations and ratings (IEC,CE) visit meltric.com/international-catalog or 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



! See pages 230-239 for detailed information on these options

INSTALLATION ACCESSORIES – SIZE 7

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

HANDLES

LARGE HANDLE w/NPT	Part #
2"	5T7P0N20
2 1/2"	5T7P0N25
3"	5T7P0N30

LARGE HANDLE w/CORD GRIP Cable Range	Part #
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

STRAIGHT HANDLE W/BUSHING w/Cable Range	Part #
2.09 - 2.25"	5T7P0D57
2.25 - 2.44"	5T7P0D62
2.44 - 2.67"	5T7P0D68
2.67 - 2.87"	5T7P0D73

ANGLES

METAL ANGLE	Part #	Description
0°	5T7M0	
Extended 60°	5T7M6	
Extended 60° with 68 mm spacer.	5T7M6-68	Provides space for Cable Reducing Adapters.

BOXES

BOX 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 CAP	Part #	Description
	35-2A126	For Male Devices 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.
RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

DR / PN

DIMENSIONS – Provided in inches

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

