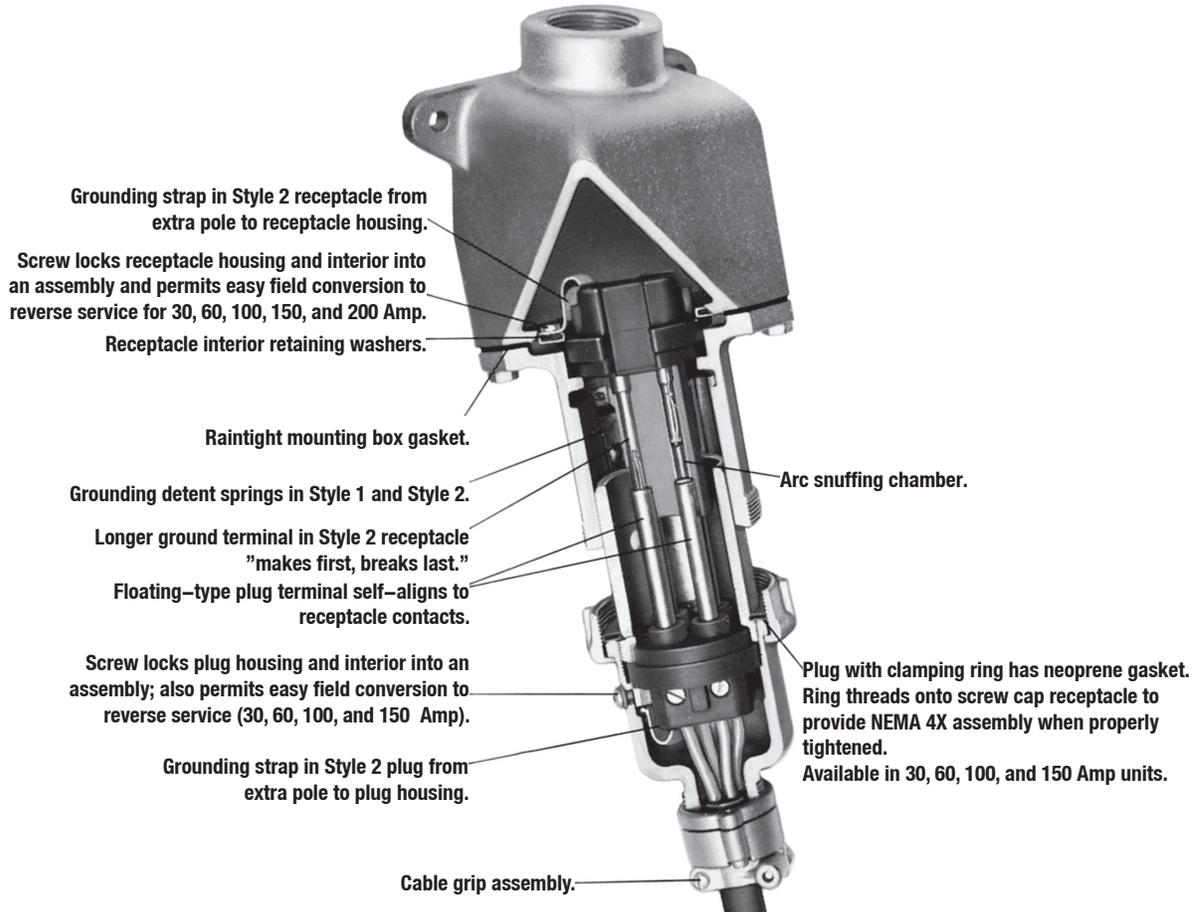


Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:
Listed for Ordinary (Unclassified) Locations
NEMA 3, 4, 4X

Illustrated Features



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

APPLETON™

Powertite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

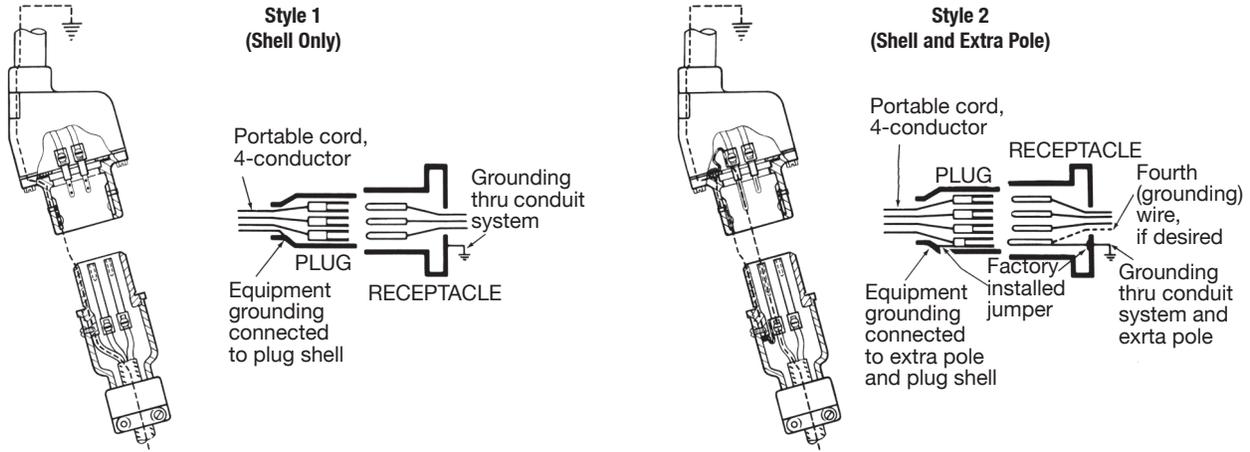
NEC/CEC:
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NEMA 3, 4, 4X

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

APPLETON™

Illustrated Features

Grounding Styles



Plug—Equipment grounding conductor is wired directly to solderless lug which is connected to the plug housing with a pressure connector. All terminals are "current carrying."

Receptacle—Two detent spring clips engage the grounded plug housing on plug insertion-grounded plug shell makes contact with receptacle ground spring before line and load poles are engaged. Grounding path is maintained until after current-carrying contacts disengage. All terminals are "current carrying."

Plug—Equipment grounding conductor is not only connected to the solderless lug in the plug housing, but also to an extra grounding pole. Grounding pole has copper alloy grounding jumper strap that connects to plug housing.

Receptacle—Two detent spring clips engage grounded plug housing on plug insertion. Jumper from extra grounding pole is electrically connected to a screw on receptacle housing. Longer grounding pole "makes first and breaks last."

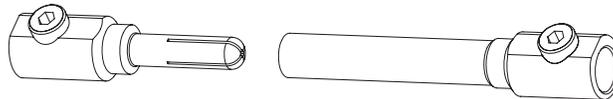
Pin and Sleeve Design ①



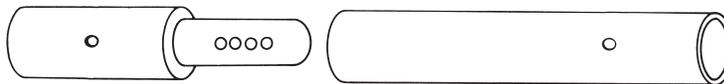
30, 60, and 100 Amp Pressure Wire Terminals.
Solid Brass Contacts with Beryllium Copper Springs.



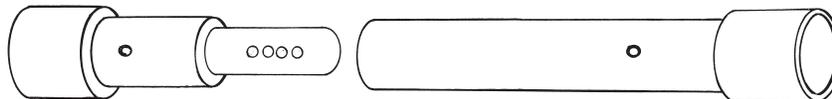
150 Amp Pressure Wire Terminals.
Solid Copper Contacts with Beryllium Copper Springs.



200 Amp Pressure Wire Terminals. Solid Copper Split-Type Contact.



400 Amp 0.84" Solder Well Wire Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.



400 Amp 1.25" Solder Wire Well Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.

① Pins and sleeves are not sold separately. Must be purchased as entire interior replacement. Available on the Replacement Interiors pages.

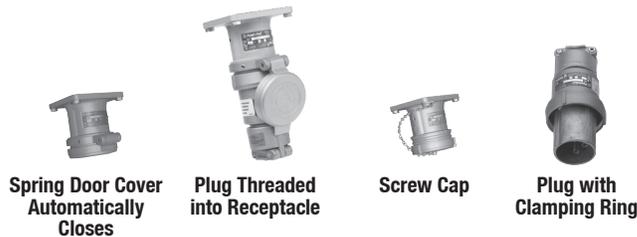
PowerTite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:
Listed for Ordinary (Unclassified) Locations
NEMA 3, 4, 4X

Illustrated Features

Spring Door and Screw Cap

30, 60, 100, and 150 Amp spring door and screw cap receptacles are threaded to accept clamping ring ACP plug. The ring threads onto the receptacle to form a raintight assembly with plug in use-and also to prevent plug fallout. When the plug is withdrawn, the gasketed spring door cover closes tightly against receptacle opening automatically, providing weatherproof protection. Spring door has stainless steel spring and shaft.



Spring Door Cover

30, 60, 100, and 150 Amp units may be located at any position in a 360° circle by adjusting a setscrew. Set screw also allows complete removal of cover. Spring door available on 200 Amp units.
NOTE: Spring Door cover in open positions for illustration only.



ACP Plugs

Supplied with bushings to accommodate a wide variety of cable diameters.



Reversible Cable Clamps

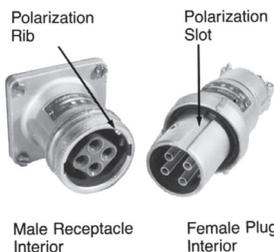
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



Illustrated Options

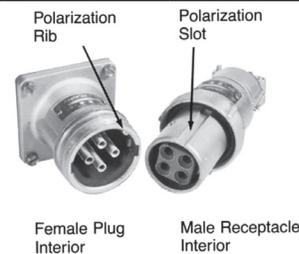
Standard Service

Energized receptacle has recessed male contacts to reduce danger of accidental touching. Plug has female contacts that are energized only upon insertion in receptacle.



Reverse Service (Generator Application)

Useful where a "hot" plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. 30, 60, 100, 150, and 200 Amp units can be easily converted to reverse service in the field when matching plug and receptacle are ordered. 400 Amp unit is only available as a factory assembled item at extra cost. Add suffix **-RS** to receptacle or connector.



Special Polarization

Special polarization is available on 30, 60, 100, 200, and 400 Amp units. Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Add suffix **-P4** to the standard or reverse service plug, receptacle or connector.

NEMA 4X Cap

Protects plug insulation and contacts from moisture, dirt, dust and corrosion when not in use. See product page for item number information.



Lock Collar

Secures Plug and Connector connections to prevent intentional disconnection by unauthorized personnel. For use with 60 and 100 Amp Series Plugs and Connectors. Collar clamps around fully tightened Plug and Connector and secured via a padlock. Order item PTL60100.



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

APPLETON™

Powertite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:
Listed for Ordinary (Unclassified) Locations
NEMA 3, 4, 4X

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

Features at a Glance

Amp	Receptacle Types				Contacts			Reverse Service		
	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	NEMA 4X Clamp Cover	Brass with Beryllium Copper Springs	Copper with Borosilicate Bearings	Split-type Copper Contacts	Brass Ground Contacts	In Field	Factory Only
30	1 and 2	X	X		X			Style 2	X	
60	1 and 2	X	X		X			Style 2	X	
100	1 and 2	X	X		X			Style 2	X	
150	2	X	X		Copper			Style 2	X	
200	1 and 2	X		X			X	Style 2	X	
400	1 and 2					X		Style 2		X

Application Chart

Grounding Style	Wire/Pole	Single Phase		Grounding Style	Wire/Pole	Three Phase	
		With Neutral	Without Neutral			With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P	L1+N+G	L1+L2+G	Style 1 (Shell Only)	2W, 2P		
	3W, 3P	L1+L2+N+G			3W, 3P		L1+L2+L3+G
	4W, 4P				4W, 4P	L1+L2+L3+N+G	
Style 2 (Shell and Extra Pole)	2W, 3P	L1+N+G	L1+L2+G	Style 2 (Shell and Extra Pole)	2W, 3P		
	3W, 4P	L1+L2+N+G			3W, 4P		L1+L2+L3+G

Range of Wire Sizes Accommodated in Powertite™ Plug and Receptacle Terminals

60 °C (140 °F) minimum wire ratings.

30, 60, 100, and 150 Amp				200 Amp			400 Amp		
Amps	Wire Recess Dia. (Inches)	Wire Range Building	Wire Range Extra Flex.	Wire Recess Dia. (Inches)	Conductor Size	Type Conductor	Solder Recess Dia. (Inches)	Conductor Size	Type Conductor
30	.281	#10 – #6	#10 – #8	0.687	250	General Wire	0.84	500 MCM	General Wire
60	.312	#6 – #2	#6 – #4		4/0	General Wire		400 MCM	Flex. Cable
100	.391	#4 – #1	#4 – #2		4/0	Flex. Cable		400 MCM	Extra Flex.
150	.525	#2 – 2/0	#2 – 2/0		3/0	Flex. Cable		1000 MCM	General wire
					3/0	Extra Flex.	1.25	900 MCM	General Wire
					2/0	Flex. Cable		800 MCM	Extra Flex.

Horsepower Ratings at Full-Load Current

Values are derived from NEC Article 430 Table 430.250. The voltages listed are nominal motor voltages.

Motor Phase	Amps	Motor Horsepower		
		240 Vac	480 Vac	600 Vac
Full-Load Current				
	30	10	20	25
	60	20	40	50
3-Phase	100	30	75	100
	150	50	100	150
	200	75	150	200

Horsepower Ratings for Emergency Disconnect Only

Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting/stopping.

Motor Phase	Amps	Motor Horsepower			
		115 Vac	240 Vac	480 Vac	600 Vac
For Emergency Disconnect Only ①					
	30	3	7-1/2	15	20
	60	7-1/2	15	30	30
3-Phase	100	10	20	40	40
	150	Do Not Disconnect Under Load			
	200	20	40	50	50

① For 1-Phase Emergency Disconnect HP ratings please refer to each amperage section.

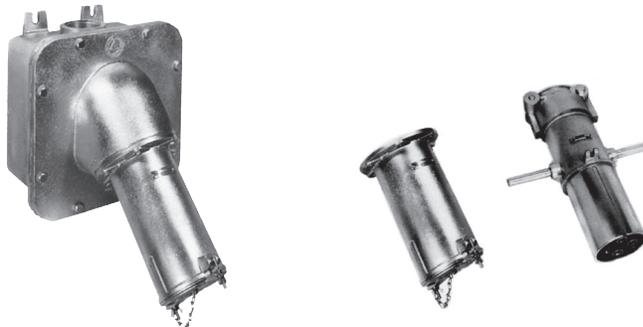
Powertite™ 400 Amp Pin and Sleeve Plugs and Receptacles

Weatherproof

600 Vac, 250 Vdc, 50-400 Hz. Clamp Cover. Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.

NEC/CEC:
Listed for Ordinary (Unclassified) Locations
NEMA 4 – Optional

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box ②	Hub Size (Inches) ③	Receptacle Only ②	Plug Only	Cable Dia. (Inches)
0.84 ①	Style 1 (Shell Only)	3W, 3P	AJA40033-400	4	AR40033	AP40033E	1.875 to 2.500
		4W, 4P	AJA40044-400		AR40044	AP40044E	1.875 to 2.500
		4W, 4P	AJA40044-400N4		AR40044N4	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	AJA40023-400	4	AR40023	AP40023E	1.875 to 2.500
		3W, 4P	AJA40034-400		AR40034	AP40034E	1.875 to 2.500
		3W, 4P	AJA40034-400N4		AR40034N4	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	AJA40133-400	4	AR40133	AP40133F	2.500 to 3.000
						AP40133G	3.000 to 3.500
		4W, 4P	AJA40144-400			AR40144	AP40144F
	Style 2 (Shell and Extra Pole)	4W, 4P	AJA40144-400N4	4	AR40144N4	AP40144G	3.000 to 3.500
		2W, 3P	AJA40123-400	4	AR40123	AP40123F	2.500 to 3.000
						AP40123G	3.000 to 3.500
		3W, 4P	AJA40134-400	4	AR40134	AP40134F	2.500 to 3.000
						AP40134G	3.000 to 3.500
		3W, 4P	AJA40134-400N4	4	AR40134N4	AP40134G	3.000 to 3.500

Solder wire terminals standard on all models.

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Note: Box can be turned for vertical or horizontal mounting.

Maximum Conductor Size

400 Amp not horsepower rated. Plug is for disconnecting use only — not for current rupturing.

Solder Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.84	500 MCM	37	General Wire
	400 MCM	259	Flexible Cable
	400 MCM	427	Extra Flexible Cable
1.25	1000 MCM	61	General Wire
	800 MCM	703	Extra Flexible Cable

① Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

② 400 Amp versions with the **-N4** suffix are NEMA 4 rated.

③ Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug.