

Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

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

Applications

- Designed to supply power to portable or fixed electrical equipment such as motor generator units, welders, pumps, compressors, cellular relay stations, SCR/VFD houses, and similar equipment.
- Ideal for use in "ship to shore" and backup/temporary power applications.
- Suitable for use in locations where a weatherproof enclosure is required.
- Rough usage construction.

Features

- Available in 30, 60, 100, 150, 200, and 400 Amp units.
- Available in two grounding styles: Style 1 (shell only) and Style 2 (shell and extra pole).
- Neoprene bushing compressed by cable collar prevents entrance of water. Bushing is highly resistant to hydrocarbon deterioration and is self-extinguishing.
- Locking screw and slot prevents plug cable collar from "backing off."
- Contacts exert constant pressure along entire contact surface and provide electrical continuity.
- Ambient temperature range of -25 °C to +40 °C (-13 °F to +104 °F).
- Insulating blocks provide greatest dielectric and mechanical strength and lowest arc tracking.
- Positive polarization: only plugs and receptacles of same style, number of poles and ampere rating can be used together.
- Circuit breaking: in 30, 60, 100, 150 and 200 Amp units, any arcing created as line and load terminals disengage is safely confined deep within terminal cavities. Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).
- 30, 60, 100, and 150 Amp Powerlite™ plugs also suitable for classified locations when used with Appleton EBR, EBRH, JBR, MD2SR, or DBR explosionproof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.
- Intermatability ①: Intermateable with Crouse-Hinds ⚡ Arktime® and Powermate™, and Killark ⚡ Versamate®.

Standard Materials

- Plug, receptacle, connector and mounting box housings: copperfree (4/10 of 1% max.) aluminum
- Insulating blocks: glass filled polyester

Standard Finishes

- Aluminum plug, receptacle, connector and mounting box housings: epoxy powder coat
- Insulating blocks and contacts: natural finish



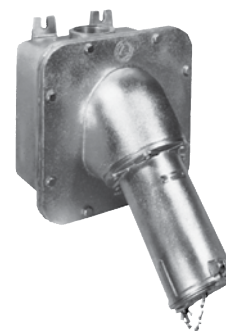
30 and 60 Amp



100 and 150 Amp



200 Amp



400 Amp

Options

- See Illustrated Options section for details.
- Standard Service, Reverse Service (Generator Application), and Special Polarization.
- Lock Collar accessory to secure plug and connector connections from unauthorized intentional disconnection.
- NEMA 4X Cap accessory for plugs to protect insulation and plug contacts from moisture, dirt, dust and corrosion when not in use.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1682, UL 1686, UL 50E
- UL Listed: E145916, E145917
- cULus Listed: E145917 (200 Amp)
- CSA Standard: C22.2 No. 182.1-13
- CSA Certified: 065179
- NEMA 4X (30, 60, 100, 150, and 200 Amp)
- NEMA Configuration: FB11

Related Products

- For classified location plugs and receptacles, see *Plugs and Receptacles: Hazardous Location*.

① Appleton Powerlite series 30 through 100 Amps is UL Classified for use in specific combinations with Crouse-Hinds Arktime®.

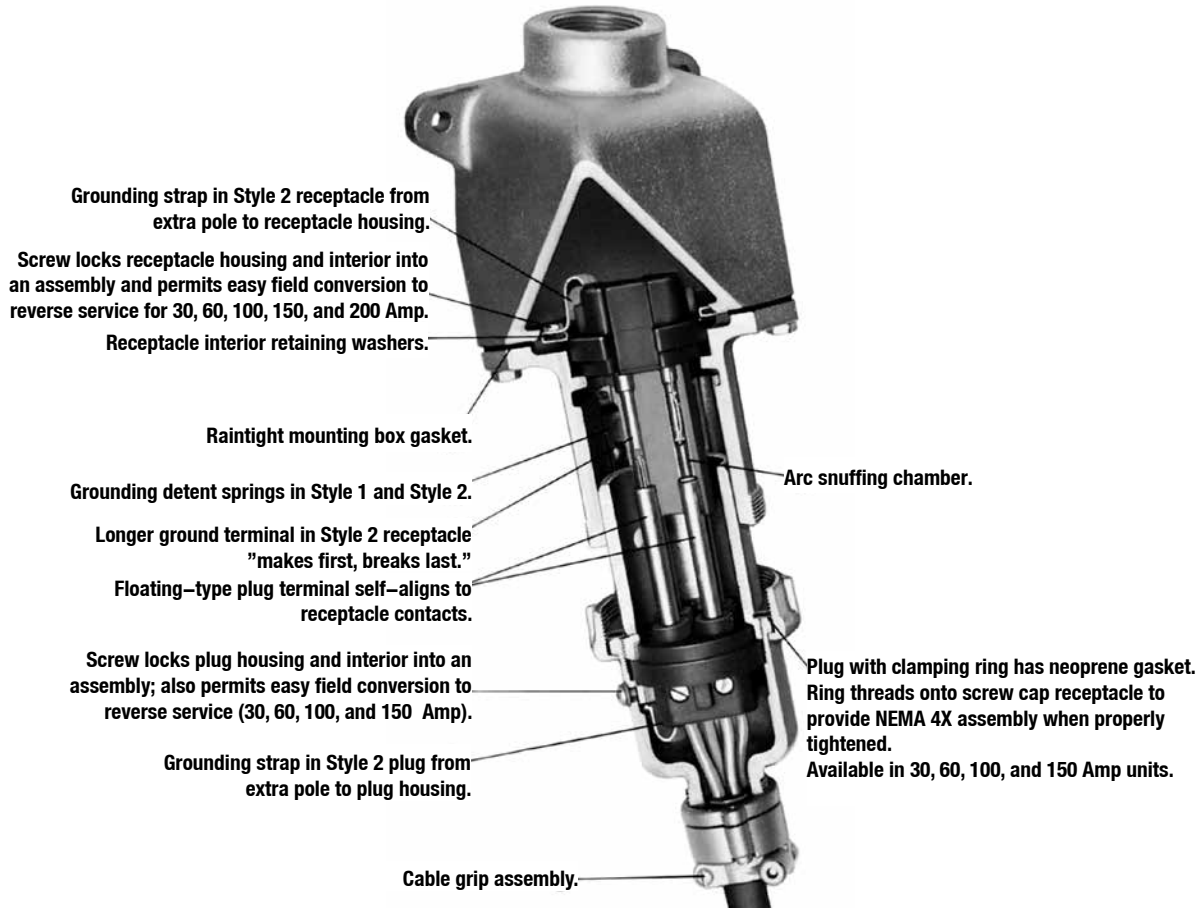
⚡ Arktime is a registered trademark of Cooper Crouse-Hinds.

⚡ Versamate is a registered trademark of Hubbell Killark.

Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

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Illustrated Features



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

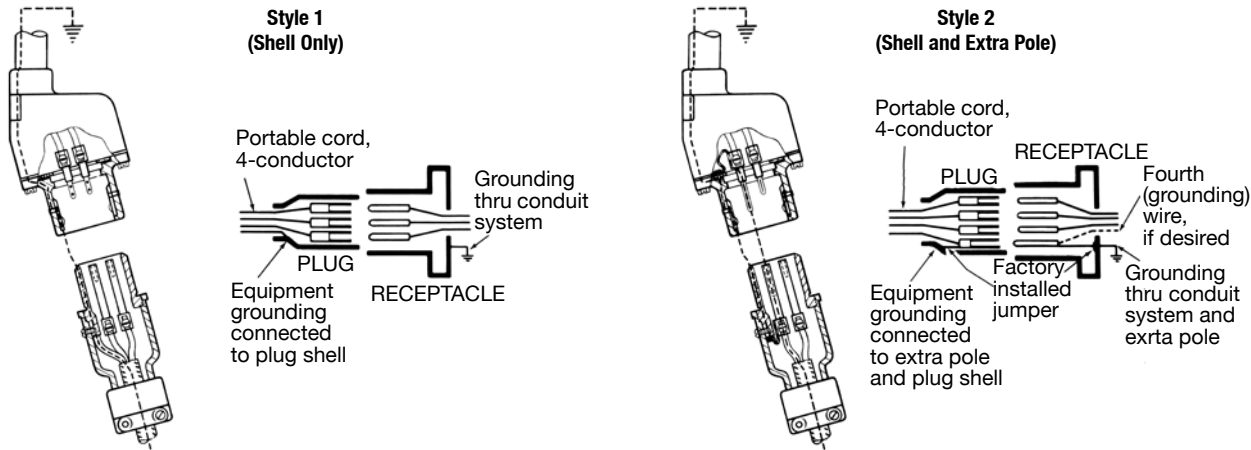
APPLETON™

Powerite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:
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 NEMA 3, 4, 4X

Illustrated Features

Grounding Styles



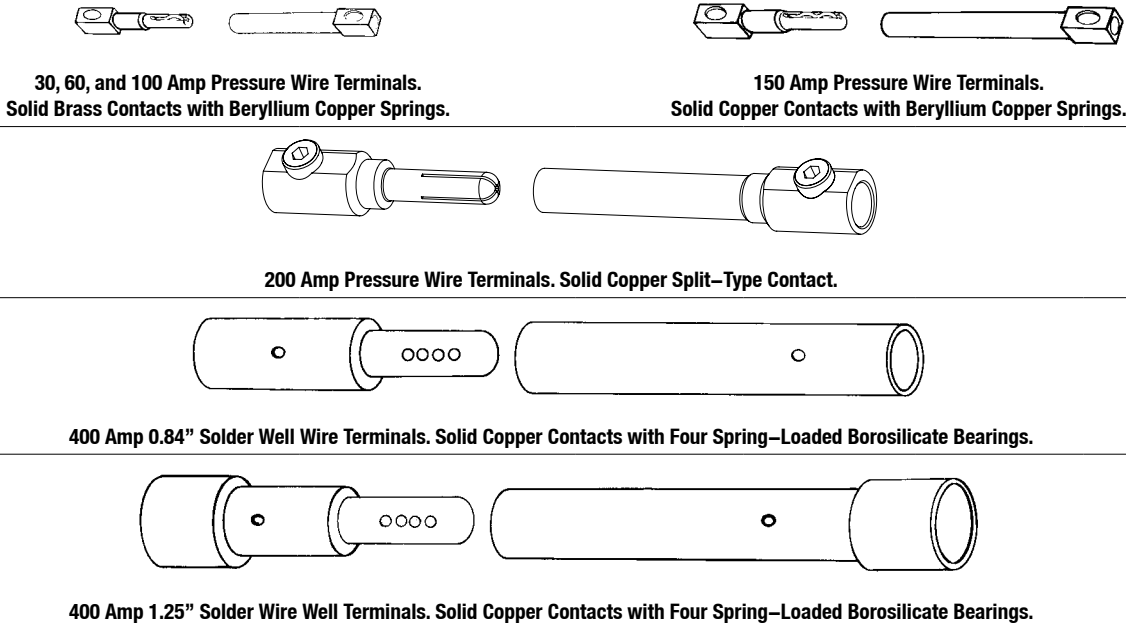
Plug—Equipment grounding conductor is wired directly to solderless lug which is connected to the plug housing with a pressure connector. All terminals are "current carrying."

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



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

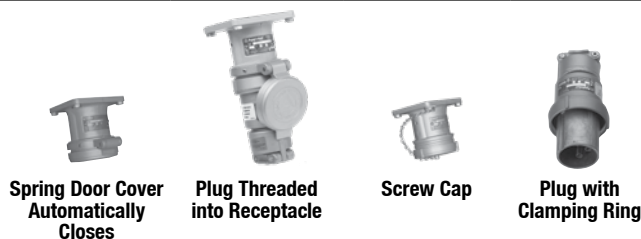
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Illustrated Features

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

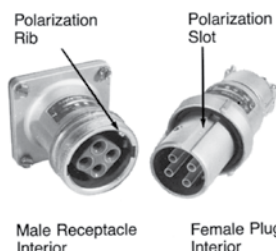
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



Illustrated Options

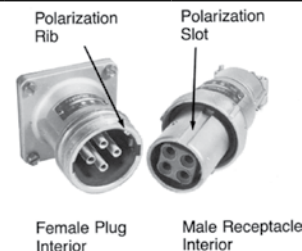
Standard Service

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 PTLC60100.



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

APPLETON™

PowerTite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:
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Features at a Glance

Amp	Receptacle Types				Brass with Beryllium Copper Springs	Contacts		Brass Ground Contacts	Reverse Service	
	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	NEMA 4X Clamp Cover		Copper with Borosilicite Bearings	Split-type Copper 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	
		With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P	L1+N+G	L1+L2+G
	3W, 3P	L1+L2+N+G	
	4W, 4P		
Style 2 (Shell and Extra Pole)	2W, 3P	L1+N+G	L1+L2+G
	3W, 4P	L1+L2+N+G	

Grounding Style	Wire/Pole	Three Phase	
		With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P		
	3W, 3P		L1+L2+L3+G
	4W, 4P	L1+L2+L3+N+G	
Style 2 (Shell and Extra Pole)	2W, 3P		
	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	1.25	1000 MCM	General wire
					3/0	Extra Flex.		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
3-Phase	30	10	20	25
	60	20	40	50
	100	30	75	100
	150	50	100	150
	200	75	150	200

Full-Load Current

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

For Emergency Disconnect Only ①

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

Powerlite™ 30 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .281". Wire Size Range: #10—#6 Building; #10—#8 Extra Flex.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

NEMA 3, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AEE Mounting Box ①	Hub Size (Inches)	Receptacle Only ③	Metallic Clamping Ring Plug ②	Nonmetallic Clamping Ring Plug ②④	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ADRE3022-50	1/2	ADR3022	ACP3022BC	—	.500 to 1.125
		ADRE3022-75	3/4				
	3W, 3P	ADRE3033-75	3/4	ADR3033	ACP3033BC	—	.500 to 1.125
		ADRE3033-100	1				
	4W, 4P	ADRE3044-75	3/4	ADR3044	ACP3044BC	—	.500 to 1.125
		ADRE3044-100	1				
Style 2 (Shell and Extra Pole)	2W, 3P	ADRE3023-75	3/4	ADR3023	ACP3023BC	—	.500 to 1.125
		ADRE3023-100	1				
	3W, 4P	ADRE3034-75	3/4	ADR3034	ACP3034BC	NMACP3034BC	.500 to 1.125
		ADRE3034-100	1				

Receptacles are provided with spring door and screw cover.

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

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

Horsepower Ratings at Full-Load Current

Below values are derived from NEC article 430 Table 430.250. The voltages listed are nominal motor voltages.

Motor Phase	Motor Horsepower		
	240 Vac	280 Vac	600 Vac
3-Phase	10HP	20HP	25HP

Horsepower Ratings for Emergency Disconnect Under Load

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

Motor Phase	Motor Horsepower			
	120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2HP	3HP	10HP	10HP
3-Phase	3HP	7-1/2HP	15HP	20HP

① For additional mounting boxes, see Aluminum Mounting Boxes.

② Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

③ Receptacle is NEMA 4X rated when screw cover is fully engaged when the receptacle is not in use.

④ Reverse service and special polarization options are not available on nonmetallic plugs.

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Powertite™ 30 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz
 Pressure Wire Terminals – Wire Recess Diameter: .281". Wire Size Range: #10—#6 Building; #10—#8 Extra Flex.

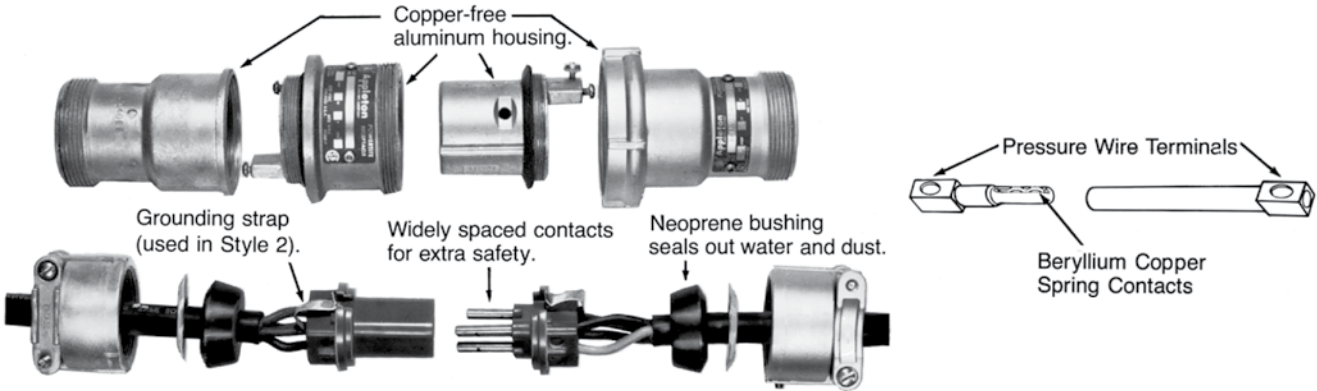
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Grounding Style	Wire/Pole	Connector Body Only	Metallic Clamping Ring Plug ①	Connector/Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ARC3022BC	ACP3022BC	.500 to 1.125
	3W, 3P	ARC3033BC	ACP3033BC	.500 to 1.125
	4W, 4P	ARC3044BC	ACP3044BC	.500 to 1.125
Style 2 (Shell and Extra Pole)	2W, 3P	ARC3023BC	ACP3023BC	.500 to 1.125
	3W, 4P	ARC3034BC	ACP3034BC	.500 to 1.125

For Reverse Service, add suffix **-RS** to Catalog Number.
 For Special Polarization, add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief conductor connections, allow easy cable replacement.

Pressure wire terminals allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

① Plug and connector body combination is NEMA 4X rated when clamping ring is fully tightened on connector body.

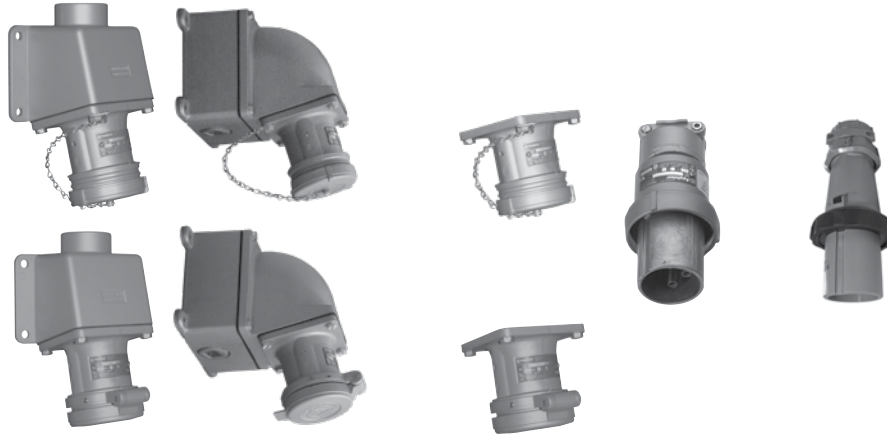
Powerlite™ 60 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .312". Wire Size Range: #6—#2 Building; #6—#4 Extra Flex.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations
NEMA 3, 4, 4X



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

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Grounding Style	Wire/Pole	Receptacle with AEE Mounting Box ①	Receptacle with AJA Mounting Box ①	Hub Size (Inches)	Receptacle Only ③	Metallic Clamping Ring Plug ②	Nonmetallic Clamping Ring Plug ②④	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ADRE6022-100	ADJA6022-100	1	ADR6022	ACP6022BC	—	.500 to 1.375
		ADRE6022-125	ADJA6022-125	1-1/4				
	3W, 3P	ADRE6033-100	ADJA6033-100	1	ADR6033	ACP6033BC	—	.500 to 1.375
		ADRE6033-125	ADJA6033-125	1-1/4				
	4W, 4P	ADRE6044-125	ADJA6044-125	1-1/4	ADR6044	ACP6044BC	—	.500 to 1.375
		ADRE6044-150	ADJA6044-150	1-1/2				
Style 2 (Shell and Extra Pole)	2W, 3P	ADRE6023-100	ADJA6023-100	1	ADR6023	ACP6023BC	—	.500 to 1.375
		ADRE6023-125	ADJA6023-125	1-1/4				
	3W, 4P	ADRE6034-125	ADJA6034-125	1-1/4	ADR6034	ACP6034BC	NMACP6034BC	.500 to 1.375
		ADRE6034-150	ADJA6034-150	1-1/2				

Receptacles are provided with spring door and screw cover.

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

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

Horsepower Ratings at Full-Load Current

Below values are derived from NEC article 430 Table 430.250. The voltages listed are nominal motor voltages.

Motor Phase	240 Vac	480 Vac	600 Vac
3-Phase	20HP	40HP	50HP

Horsepower Ratings for Emergency Disconnect Under Load

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

Motor Phase	120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	3HP	10HP	20HP	20HP
3-Phase	7-1/2HP	15HP	30HP	30HP

① For additional mounting boxes, see Aluminum Mounting Boxes.

② Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

③ Receptacle is NEMA 4X rated when screw cover is fully engaged when the receptacle is not in use.

④ Reverse service and special polarization options are not available on nonmetallic plugs.

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Powerlite™ 60 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz
Pressure Wire Terminals – Wire Recess Diameter: .312". Wire Size Range: #6—#2 Building; #6—#4 Extra Flex.

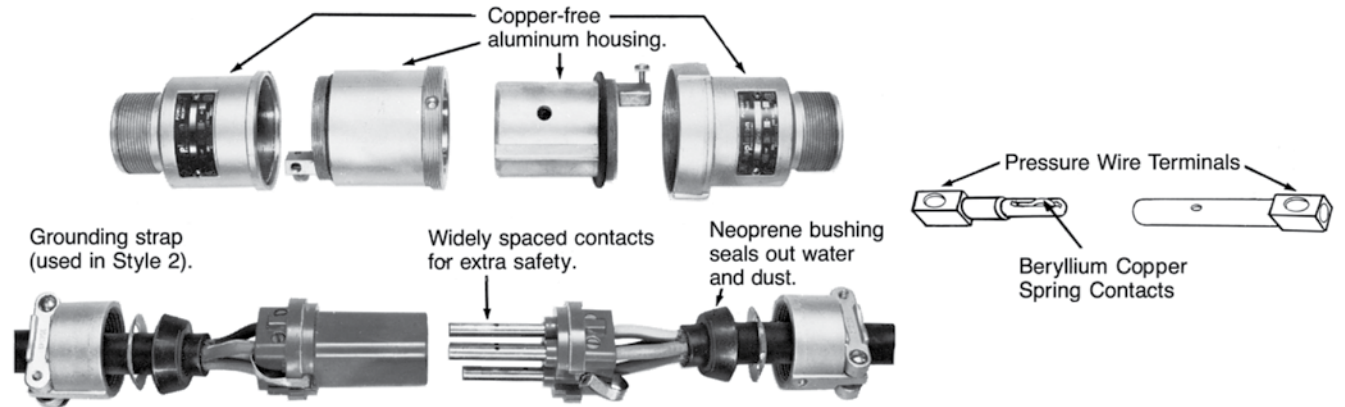
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Grounding Style	Wire/Pole	Connector Body Only	Metallic Clamping Ring Plug ①	Connector/Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ARC6022BC	ACP6022BC	.500 to 1.375
	3W, 3P	ARC6033BC	ACP6033BC	.500 to 1.375
	4W, 4P	ARC6044BC	ACP6044BC	.500 to 1.375
Style 2 (Shell and Extra Pole)	2W, 3P	ARC6023BC	ACP6023BC	.500 to 1.375
	3W, 4P	ARC6034BC	ACP6034BC	.500 to 1.375

For Reverse Service, add suffix **-RS** to Catalog Number.
For Special Polarization, add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

Pressure wire terminals allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

① Plug and connector body combination is NEMA 4X rated when clamping ring is fully tightened on connector body.

Powertite™ 100 and 150 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – 100 Amp: Wire Recess Diameter: .391". Wire Size Range: #4—#1 Building; #4—#2 Extra Flex.

150 Amp: Wire Recess Diameter: .525". Wire Size Range: #2—2/0 Building; #2—#2/0 Extra Flex.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

NEMA 3, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box ①	Hub Size (Inches)	Receptacle Only ③	Clamping Ring Plug ②	Plug Cable Dia. (Inches)
100 Amp Style 1 (Shell Only)	2W, 2P	ADJA1022-125	1-1/4	ADR1022	ACP1022CD	.875 to 1.906
		ADJA1022-150	1-1/2			
	3W, 3P	ADJA1033-125	1-1/4	ADR1033	ACP1033CD	.875 to 1.906
		ADJA1033-150	1-1/2			
100 Amp Style 2 (Shell and Extra Pole)	4W, 4P	ADJA1044-150	1-1/2	ADR1044	ACP1044CD	.875 to 1.906
		ADJA1044-200	2			
	2W, 3P	ADJA1023-125	1-1/4	ADR1023	ACP1023CD	.875 to 1.906
		ADJA1023-150	1-1/2			
150 Amp Style 2 (Shell and Extra Pole)	3W, 4P	ADJA1034-150	1-1/2	ADR1034	ACP1034CD	.875 to 1.906
		ADJA1034-200	2			
	3W, 4P	ADJA15034-150	1-1/2	ADR15034	ACP15034CD	.875 to 1.906
		ADJA15034-200	2			1.250 to 2.187

Receptacles are provided with spring door and screw cover.

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

For Special Polarization for 100 Amp units, add suffix **-P4** to Catalog Number. (Not available for 150 Amp units.)

Horsepower Ratings at Full-Load Current

Below values are derived from NEC article 430 Table 430.250. The voltages listed are nominal motor voltages.

Amp	Motor Phase	240 Vac	Motor Horsepower 480 Vac	600 Vac
100	3-Phase	30HP	75HP	100HP
150	3-Phase	50HP	100HP	150HP

Horsepower Ratings for Emergency Disconnect Under Load

Not for normal starting and stopping, but plug may be withdrawn in an emergency if within these maximum HP ratings.

Amp	Motor Phase	120 Vac	240 Vac	Motor Horsepower 480 Vac	600 Vac
100	1-Phase	7-1/2HP	15HP	30HP	30HP
	3-Phase	10HP	20HP	40HP	40HP
150	3-Phase	Do Not Disconnect Under Load			

① For additional mounting boxes, see Aluminum Mounting Boxes.

② Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

③ Receptacle is NEMA 4X rated when screw cover is fully engaged when the receptacle is not in use.

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Powertite™ 100 and 150 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz
 Pressure Wire Terminals – 100 Amp: Wire Recess Diameter: .391". Wire Size Range: #4—#1 Building; #4—#2 Extra Flex.
 150 Amp: Wire Recess Diameter: .525". Wire Size Range: #2—2/0 Building; #2—#2/0 Extra Flex.

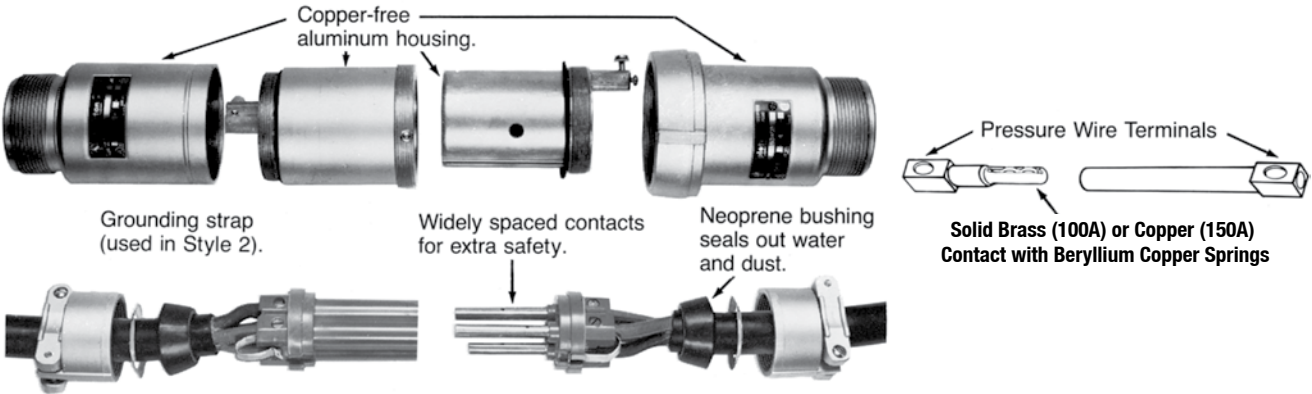
NEC/CEC:
 Listed for Ordinary (Unclassified) Locations
 NEMA 3, 4, 4X



Grounding Style	Wire/Pole	Connector Body Only	Clamping Ring Plug ①	Connector/Plug Cable Dia. (Inches)
100 Amp Style 1 (Shell Only)	2W, 2P	ARC1022CD	ACP1022CD	.875 to 1.906
	3W, 3P	ARC1033CD	ACP1033CD	.875 to 1.906
	4W, 4P	ARC1044CD	ACP1044CD	.875 to 1.906
100 Amp Style 2 (Shell and Extra Pole)	2W, 3P	ARC1023CD	ACP1023CD	.875 to 1.906
	3W, 4P	ARC1034CD	ACP1034CD	.875 to 1.906
150 Amp ② Style 2 (Shell and Extra Pole)	3W, 4P	ARC15034CD	ACP15034CD	.875 to 1.906
	3W, 4P	ARC15034DE	ACP15034DE	1.250 to 2.187

For Reverse Service, add suffix **-RS** to Catalog Number.
 For Special Polarization for 100 Amp units, add suffix **-P4** to Catalog Number. (Not available for 150 Amp units.)

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

Pressure wire terminals allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

① Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.
 ② Powertite 150 Amp ARC connectors are not UL listed or CSA certified.