1-800-633-0405

BRYANT® IEC 60309 Pin and Sleeve Devices

Overview

Watertight Devices

Bryant IEC pin and sleeve devices are rugged nonconductive plugs, connectors, receptacles, and inlets designed to withstand heavy-duty industrial environments while maintaining a reliable electrical and watertight connection that resists accidental disconnection. Bryant's pin and sleeve line safeguards against connecting devices of different amperage and voltage ratings together. Conformance with IEC 60309-1 and IEC 60309-2 international standards results in standardized configurations that are easy to use.

Features:

- IP67 environmental ratings
- Impact and corrosion resistant insulated non-metallic housing
- Sequential contact engagement to prevent a momentary over-voltage
- External strain relief
- Glandless water ingress protection
- Color-coded for each specific voltage
- Self-adjusting contacts provide accurate pin insertion, producing self-cleaning effect as pin is inserted and withdrawn from sleeve
- Phase contacts are recessed in deep insulated chambers to minimize arcing
- Ground contact in forward position ensures first make, last break, neutral contact connects next, then phase contacts
- Terminal screws are backed out for easy assembly

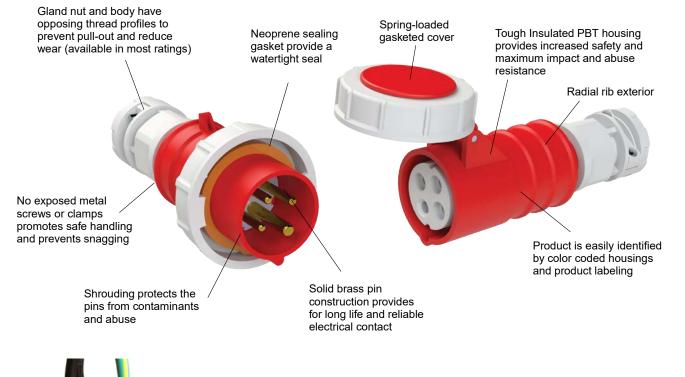


Agency Approvals:

- UL1686 Safety for Pin & Sleeve Configurations
 VDE, CE
- IEC 60309-1 and 60309-2
- *UL Listed & cUL Listed File E146033 or E146032

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.





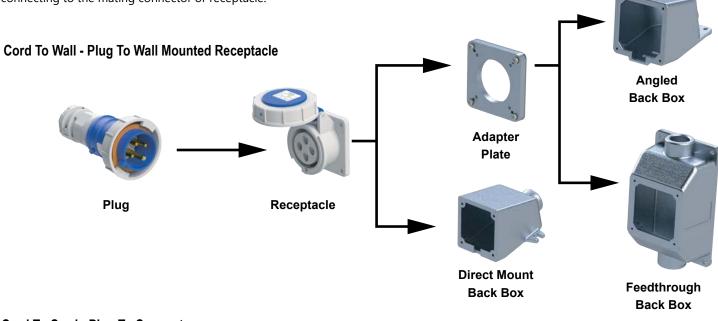
30 Amp Spring Clamp

- · Strong spring continuously applies pressures as strands relax
- Eliminates timely step of adding ferrules
- No torque screwdriver required
- UL approved screwless termination for 30 Amp Devices

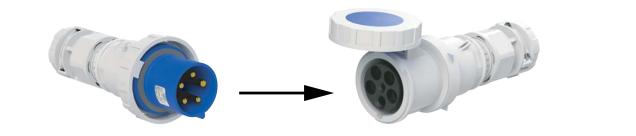
BRYANT[®] IEC 60309 Pin and Sleeve Devices

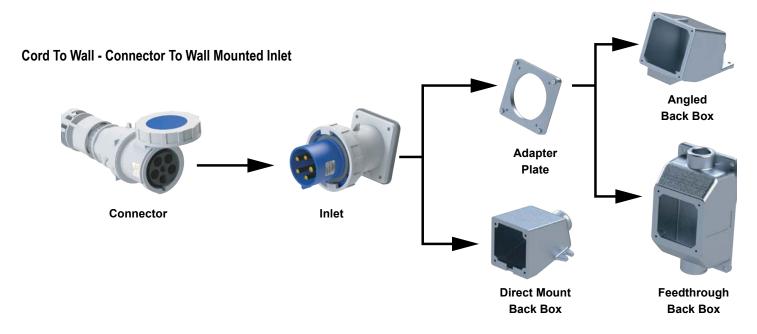
Device Selection

Pin and Sleeve connections consist of a plug or inlet connecting to the mating connector or receptacle.



Cord To Cord - Plug To Connector

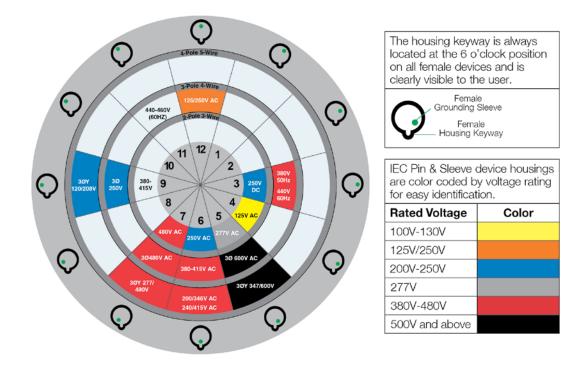




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BRYANT[®] IEC 60309 Pin and Sleeve Devices

Specifications



The voltage rating can be identified by the clock position of the female grounding sleeve relative to the housing keyway. With the keyway always positioned at 6 o'clock, the female grounding sleeve is located at a specific clock position for each voltage rating.

		Al	lowable	e Cond	luctors		
		From				Grip	
Device	AWG	Cond	Туре	AWG	Cond	Туре	Min/Max Diameter
		3			3		0.370 / 0.595
20A	#14	4		#12	4]	0.410 / 0.650
		5	SJOOW		5	S	0.650/0.710
		3		#8	3		0.565 / 0.930
30A	#10	4		#0	4		0.625 / 1.05
30A	#10	5	TC-ER	#10	5	TC-ER	0.61 min
		5		#8	5	S	0.760 / 1.15
		3	S		3		0.970 / 1.450
60A	#6	4	3	#4	4	SO	1.050 / 1.450
		5			5		1.180 / 1.450
		3			3		1.050 / 1.510
100A	#4	4	W	#1	4	W	0.905 / 1.680
		5			5		1.063 / 1.880

	Device Rating										
	Domestic	20A	30A	60A	100A						
Strip Cable	inch	2	2 1/2	3 1/2	4 1/2						
Jacket	mm	51	70	89	114						
Conductor Strip	inch	1	1/2	1	1 1/2						
Length	mm	25	12	25	40						
Torque Terminal	lb•in	8	_	23	50						
Screws	N•m	0.9	_	2.5	5.7						
Torque Clamp	lb•in	10	17	15	15						
Screws	N•m	1.25	2.00	1.75	1.75						
Torque External	lb•in	61	84	177	194						
Cord Clamp	N•m	7	9.5	20	22						

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Materials and Specifications

Bryant IEC 60309 Pin and Sleeve Materials

	Plug/Connectors
Housing, gland nut and cord clamp accessory	Toughened nylon
Cord gland	Neoprene
Seals/gaskets	Neoprene, EPDM, TPE
Phase/ground pins	Brass
Terminal screws	Plated steel
Terminal cover	Toughened nylon Glass-reinforced Nylon (100A)
Contact carrier	Glass-reinforced nylon Nylon (60A)
Gland friction washer	Plated carbon steel (30/60/100A) Nylon (20A)
Assembly screws	Stainless steel (60/100A) Plated steel (20/30A)
	Plug
Locking ring	Polycarbonate
	Connector
Cover ring	Polycarbonate
Cover spring	Stainless steel
Hinge pins	Brass
Sleeve spring	Nickel-plated spring steel
	Receptacle/Inlet
Housing/mounting flange	Toughened Nylon
Mounting screws	Stainless steel
Seals/gaskets	Neoprene, EPDM, TPE
Phase/ground pins	Brass
Terminal screws	Plated steel
Terminal cover	Toughened Nylon Glass-reinforced Nylon (100A)
Contact carrier	Glass-reinforced nylon Nylon (60A)
	Receptacle
Cover arm	Toughened nylon
Cover ring	Polycarbonate
Sleeve spring	Nickel-plated spring steel
Hinge pins	Brass
	Inlet
Mounting flange	Toughened nylon
Locking ring	Polycarbonate
Assembly screws	Stainless steel (60/100A) Plated steel (20/30A)

Drught	Pin and Sleeve S	nonifications
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	Electrical
Dielectric voltage withstand	3,000 Volts - receptacle 2,200 Volts - plug and connector
Max. working voltage	600 VAC
Spacings	1/4 inch minimum creepage and clearance per UL 1682
Current interrupting	Certified for current interrupting at full rated current where applicable per UL 1682
Temperature rise	Less than 30°C temperature rise at full rated current after 50 cycles of overload tested at 150% of rated current at 0.75 pf.
Endurance	Up to 5,000 connect and disconnect cycles at full rated current and voltage per UL1682
	Mechanical
Impact resistance	After 6 hours at -25°C, 8 drops from 2 1/2" with 7 1/2" length cord
Mechanical crush test	250 lbs force for 1 minute after 6 hours at -25°C
Terminal identification	Terminals identified in accordance with North American Codes
Product identification	Catalog number and rating indicated on device
	Environmental
Moisture resistance	Submerged 30 minutes in water 1 meter in depth
Flammability (enclosure)	V2 minimum per UL94
Operating temperatures	Maximum continuous 95°C with impact Minimum continuous at -40°C without impact
Ingress protection	IP67 suitability
Polarization integrity	Mating devices will not energize ground if polarization feature is removed from housing and 40 lbs force is applied

BRYANT[®] IEC 60309 Pin and Sleeve Devices

2-Pole, 3-Wire Devices 20, 30 and 60 Amp



BRY320P4W



BRY320R6W



BRY330P6W



BRY360C6W

					2	-Pole, 3-	Wire 2	0, 30 and	60 Am)			
	nps	Volta	–	Color	Clock Position	Wire Size	Terminal Type	Cord Diameter	Device	Reference Number	Part Number	Price	Drawing Link
UL	VDE	UL	VDE		1 oonton		1990	(Inch)		number			Link
								0.37 - 0.595	Plug	C320P4WA	<u>BRY320P4W</u>	Retired	PDF
	-	125 VAC	—	Yellow	4 hour	14-12 AWG	Screw	0.07 - 0.000	Connector	C320C4WA	BRY320C4W	\$88.00	PDF
20								_	Receptacle	C320R4WA	<u>BRY320R4W</u>	\$82.00	PDF
20								0.37 - 0.595	Plug	C320P6WA	<u>BRY320P6W</u>	\$74.00	PDF
	16	250 VAC	200-250 VAC	Blue	6 hour	14-12 AWG	Screw	0.37 - 0.395	Connector	C320C6WA	<u>BRY320C6W</u>	\$88.00	PDF
			110					—	Receptacle	C320R6WA	BRY320R6W	\$82.00	PDF
								0.565 - 0.93	Plug	C330P4WA	<u>BRY330P4W</u>	Retired	PDF
	-	125 VAC		Yellow	4 hour	10-8 AWG	Spring	0.000 - 0.95	Connector	C330C4WA	<u>BRY330C4W</u>	Retired	PDF
30								—	Receptacle	C330R4WA	<u>BRY330R4W</u>	Retired	PDF
30								0.565 - 0.93	Plug	C330P6WA	<u>BRY330P6W</u>	\$112.00	PDF
	32	250 VAC	200-250 VAC	Blue	6 hour	10-8 AWG	Spring	0.000 - 0.95	Connector	C330C6WA	<u>BRY330C6W</u>	\$119.00	PDF
			110					—	Receptacle	C330R6WA	BRY330R6W	\$114.00	PDF
								0.97 - 1.45	Plug	C360P6WA	<u>BRY360P6W</u>	\$162.00	PDF
60	63	250 VAC	200-250 VAC	Blue	6 hour	6-4 AWG	Screw	0.97 - 1.43	Connector	C360C6WA	<u>BRY360C6W</u>	\$197.00	PDF
			,,,0					_	Receptacle	C360R6WA	BRY360R6W	\$209.00	PDF

BRYANT[®] IEC 60309 Pin and Sleeve Devices

3-Pole, 4-Wire Devices 20 and 30 Amp



BRY420P9W



BRY430P9W



BRY420C7W



BRY430C7W



BRY430R5W

					3-	Pole, 4-V	Vire 20) and 30	Amp				
Am	ps	Volt	age	Color	Clock	Wire Size	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE		Position		Туре	(Inch)		Number			Link
			000 050					0.41 - 0.65	Plug	C420P9WA	<u>BRY420P9W</u>	\$82.00	<u>PDF</u>
	16	3Ø 250 VAC	200-250 VAC	Blue	9 hour	14-12 AWG	Screw	0.41 - 0.05	Connector	C420C9WA	BRY420C9W	\$95.00	PDF
20		200 1110					—	Receptacle	C420R9WA	<u>BRY420R9W</u>	\$88.00	<u>PDF</u>	
20								0.41 - 0.65	Plug	C420P7WA	<u>BRY420P7W</u>	\$82.00	<u>PDF</u>
	_	3Ø – Re	Red	7 hour	14-12 AWG	Screw	0.41 - 0.05	Connector	C420C7WA	BRY420C7W	\$95.00	PDF	
								_	Receptacle	C420R7WA	<u>BRY420R7W</u>	\$88.00	<u>PDF</u>
			000.050					0.625 - 1.05	Plug	C430P9WA	<u>BRY430P9W</u>	\$112.00	<u>PDF</u>
	32	3Ø 250 VAC	200-250 VAC	Blue	9 hour	10-8 AWG	Spring	0.025 - 1.05	Connector	C430C9WA	BRY430C9W	\$139.00	PDF
		200 1110						_	Receptacle	C430R9WA	<u>BRY430R9W</u>	\$115.00	<u>PDF</u>
								0.625 - 1.05	Plug	C430P7WA	<u>BRY430P7W</u>	\$112.00	<u>PDF</u>
30	_	3Ø 480 VAC	—	Red	7 hour	10-8 AWG	Spring	0.025 - 1.05	Connector	C430C7WA	BRY430C7W	\$139.00	PDF
								_	Receptacle	C430R7WA	<u>BRY430R7W</u>	\$115.00	<u>PDF</u>
								0.625 - 1.05	Plug	C430P5WA	<u>BRY430P5W</u>	\$112.00	<u>PDF</u>
	_	3Ø 600 VAC	—	Black	5 hour	10-8 AWG	Spring	0.020 - 1.05	Connector	C430C5WA	BRY430C5W	\$139.00	PDF
								_	Receptacle	C430R5WA	<u>BRY430R5W</u>	\$115.00	PDF

BRYANT® IEC 60309 Pin and Sleeve Devices

3-Pole, 4-Wire Devices 60 and 100 Amp



BRY460P9W



BRY460C7W



BRY460R5W



BRY4100P9W



BRY4100C7W



BRY4100R5W

					3-	Pole, 4	-Wire 6	0 and 10	00 Amp				
Am	ps	Volta	ge	Color	Clock	Wire	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE		Position	Size	Туре	(Inch)		Number			Link
								1.05 - 1.45	Plug	C460P9WA	<u>BRY460P9W</u>	\$220.00	<u>PDF</u>
	63	3Ø 250 VAC	200-250 VAC	Blue	9 hour	6-4 AWG	Screw	1.00 - 1.40	Connector	C460C9WA	<u>BRY460C9W</u>	\$245.00	<u>PDF</u>
		200 1110						_	Receptacle	C460R9WA	BRY460R9W	\$255.00	PDF
								1.05 - 1.45	Plug	C460P7WA	<u>BRY460P7W</u>	\$220.00	PDF
60	—	3Ø 480 VAC	—	Red	7 hour	6-4 AWG	Screw	1.03 - 1.43	Connector	C460C7WA	<u>BRY460C7W</u>	\$245.00	PDF
								_	Receptacle	C460R7WA	<u>BRY460R7W</u>	\$255.00	PDF
								1.05 - 1.45	Plug	C460P5WA	<u>BRY460P5W</u>	\$220.00	PDF
	-	3Ø 600 VAC	—	Black	5 hour	6-4 AWG	Screw	1.03 - 1.43	Connector	C460C5WA	<u>BRY460C5W</u>	\$245.00	PDF
								_	Receptacle	C460R5WA	<u>BRY460R5W</u>	\$255.00	PDF
			000 050					0.905 - 1.68	Plug	C4100P9WA	<u>BRY4100P9W</u>	\$329.00	PDF
	125	3Ø 250 VAC	200-250 VAC	Blue	9 hour	4-1 AWG	Screw	0.903 - 1.00	Connector	C4100C9WA	BRY4100C9W	\$349.00	<u>PDF</u>
		200 1/10						_	Receptacle	C4100R9WA	<u>BRY4100R9W</u>	\$312.00	PDF
								0.905 - 1.68	Plug	C4100P7WA	<u>BRY4100P7W</u>	\$329.00	<u>PDF</u>
100	—	3Ø 480 VAC	—	Red	7 hour	4-1 AWG	Screw	0.905 - 1.00	Connector	C4100C7WA	<u>BRY4100C7W</u>	\$349.00	PDF
		100 110						_	Receptacle	C4100R7WA	BRY4100R7W	\$312.00	PDF
								0.905 - 1.68	Plug	C4100P5WA	<u>BRY4100P5W</u>	\$329.00	<u>PDF</u>
	— 3Ø 600 VAC — B	Black	5 hour	4-1 AWG	Screw	0.905 - 1.00	Connector	C4100C5WA	BRY4100C5W	\$349.00	<u>PDF</u>		
		300 110						_	Receptacle	C4100R5WA	<u>BRY4100R5W</u>	\$312.00	<u>PDF</u>

BRYANT[®]IEC 60309 Pin and Sleeve Devices

4-Pole, 5-Wire Devices 30, 60 and 100 Amp



BRY530P7W



BRY560C9W



BRY560R7W



BRY5100P9W

	4-Pole, 5-Wire 30, 60 and 100 Amp												
Am	ps	Volta	ge	Color	Clock	Wire	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE		Position	Size	Туре	(Inch)		Number			Link
								0.76 - 1.15	Plug	C530P7WA	<u>BRY530P7W</u>	\$130.00	PDF
30	_	3ØY 277/480VAC	_	Red	7 hour	10-8 AWG	Spring	0.70 - 1.15	Connector	C530C7WA	<u>BRY530C7W</u>	\$139.00	PDF
		2111400 40						_	Receptacle	C530R7WA	<u>BRY530R7W</u>	\$135.00	<u>PDF</u>
								4 4 0 4 4 5	Plug	C560P9WA	BRY560P9W	\$232.00	PDF
	63	3ØY 120/208	120/208- 144/250	Blue	9 hour	6-4 AWG	Screw	1.18 - 1.45	Connector	C560C9WA	BRY560C9W	\$255.00	PDF
		VAC	VAC					—	Receptacle	C560R9WA	<u>BRY560R9W</u>	\$269.00	PDF
60								_	Inlet	C560B9WA	<u>BRY560B9W</u>	\$244.00	PDF
		3ØY						1.18 - 1.45	Plug	C560P7WA	<u>BRY560P7W</u>	\$232.00	PDF
	-	277/480	—	Red	7 hour	6-4 AWG	Screw	1.10 - 1.43	Connector	C560C7WA	<u>BRY560C7W</u>	\$255.00	PDF
		VAC		nou				—	Receptacle	C560R7WA	<u>BRY560R7W</u>	\$269.00	PDF
		3ØY	120/208-					1.063 - 1.88	Plug	C5100P9WA	<u>BRY5100P9W</u>	\$372.00	PDF
100	125	120/208	144/250	Blue	9 hour	4-1 AWG	Screw	1.003 - 1.00	Connector	C5100C9WA	BRY5100C9W	\$395.00	PDF
		VAC	VAC						Receptacle	C5100R9WA	<u>BRY5100R9W</u>	\$359.00	PDF

BRYANT[®] IEC 60309 Pin and Sleeve Accessories

Features

- Back box features heavy duty cast aluminum construction with a durable enamel finish
- Adapter plates allow receptacles and inlets to be mounted to back boxes
- Cast aluminum direct mount back boxes permit receptacles to be mounted directly to box without adapter plate
- Closure caps provide a watertight seal for male plugs and flanged inlets when not mated

	Nema Type 1 Portable Outlet Box Cover Plates Selection Chart											
			Back Boxes		Adapter Plates	Direct Mount Back Boxes						
For Use With	Hub Size (inches)	For Ma	ounting Receptacles a	Required to mount								
		15º Angle	Feed-through	Four-Way	receptacles and inlets to back boxes	15º Angle						
00 and 20 A	3/4	BB201WA*	FT202WA*	—	40000	DM20301						
20 and 30A	1	<u>BB301WA</u> **	<u>FT302WA</u> *	—	<u>AP2030</u>	—						
60A	1-1/4	<u>BB601WA*</u>	—	—	1000	DM602						
60A	1-1/2	<u>BB602WA</u> *	—	<u>FW60100A</u> **	<u>AP60</u>	—						
1004	1-1/2	<u>BB1001WA</u> *	_	<u>FW60100A</u> **	40100	_						
100A	2	BB1002WA*	_	_	<u>AP100</u>	_						

NOTE: *Adapter plates: 20/30A devices require <u>AP2030</u>, 60A devices require <u>AP60</u> and 100A devices require <u>AP100</u> adapter plates, purchase separately. **Requires <u>AP60</u> adapter plate to mount 60A receptacle or inlet. Requires <u>AP100</u> adapter plate to mount 100A receptacle or inlet.



BB201WA



BB601WA



BB1002WA

		Dead End Back Boxes	
Part Number	Price	Description	Drawing Link
<u>BB201WA</u>	\$71.00	Bryant dead end back box, (1) 3/4in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 20A and 30A devices. Requires AP2030 adapter plate.	PDF
<u>BB301WA</u>	\$71.00	Bryant dead end back box, (1) 1in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 20A and 30A devices. Requires AP2030 adapter plate.	PDF
<u>BB601WA</u>	\$103.00	Bryant dead end back box, (1) 1-1/4in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 60A devices. Requires AP60 adapter plate.	PDF
<u>BB602WA</u>	\$103.00	Bryant dead end back box, (1) 1-1/2in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 60A devices. Requires AP60 adapter plate.	PDF
<u>BB1001WA</u>	\$152.00	Bryant dead end back box, (1) 1-1/2in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 100A devices. Requires AP100 adapter plate.	PDF
<u>BB1002WA</u>	\$189.00	Bryant dead end back box, (1) 2in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 100A devices. Requires AP100 adapter plate.	PDF

BRYANT[®] IEC 60309 Pin and Sleeve Accessories



FT202WA





FW60100A

	Back Boxes									
Part Number	Price	Description	Drawing Link							
<u>FT202WA</u>	\$128.00	Bryant feed through back box, (2) 1in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 20A and 30A devices. Requires AP2030 adapter plate.	PDF							
<u>FT302WA</u>	\$128.00	Bryant feed through back box, (2) 3/4in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 20A and 30A devices. Requires AP2030 adapter plate.	PDF							
<u>FW60100A</u>	\$312.00	Bryant four-way back box, (1) 1-1/2in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 60A and 100A devices. Requires AP60 adapter plate for 60A devices or AP100 adapter plate for 100A devices.	PDF							

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<u>AP2030</u>	<u>AP60</u>	<u>AP100</u>

Adapter Plates							
Part Number Price		Description					
AP2030	20 \$16.00 Bryant adapter plate, nylon, gray. For use with Bryant back boxes using 20A and 30A devices.		PDF				
<u>AP60</u>	60 \$18.00 Bryant adapter plate, nylon, gray. For use with Bryant back boxes using 60A devices.		PDF				
<u>AP100</u>	\$19.00	Bryant adapter plate, nylon, gray. For use with Bryant back boxes using 100A devices.	PDF				

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DM20301



1
Drawing Link
PDF
PDF
ast aluminum housing, gray. b included. cast aluminum housing, gray. ardware included.

Closure Cap used with Inlets

Closure Cap used with Plugs

Closure Cap Assembly



2 Seat closure cap over plug and complete seal with rotating collar.



Closure Caps							
	For Use With	Part Number	Price	Description	Drawing Link		
20A	3-Wire	<u>CC320A</u>	\$34.00	Bryant closure cap, nylon, white. For use with Bryant 20A 3-wire devices.	PDF		
	4-Wire	<u>CC420A</u>	\$37.00	Bryant closure cap, nylon, white. For use with Bryant 20A 4-wire devices.	PDF		
	5-Wire	<u>CC520</u>	\$44.00	Bryant closure cap, nylon, white. For use with Bryant 20A 5-wire devices.	PDF		
30A -	3-Wire/4-Wire	<u>CC330</u>	\$39.00	Bryant closure cap, nylon, white. For use with Bryant 30A 3- and 4-wire devices.	PDF		
	5-Wire	<u>CC530</u>	\$42.00	Bryant closure cap, nylon, white. For use with Bryant 30A 5-wire devices.	PDF		
60A	3-Wire/4-Wire/5-Wire	<u>CC560</u>	\$48.00	Bryant closure cap, nylon, white. For use with Bryant 60A 3-, 4- and 5-wire devices.	PDF		
100A	3-Wire/4-Wire/5-Wire	<u>CC510</u>	\$52.00	Bryant closure cap, nylon, white. For use with Bryant 100A 3-, 4-, and 5-wire devices.	PDF		