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- Self-adjusting contacts provide accurate pin insertion, producing self-cleaning effect as pin is inserted and withdrawn from sleeve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:

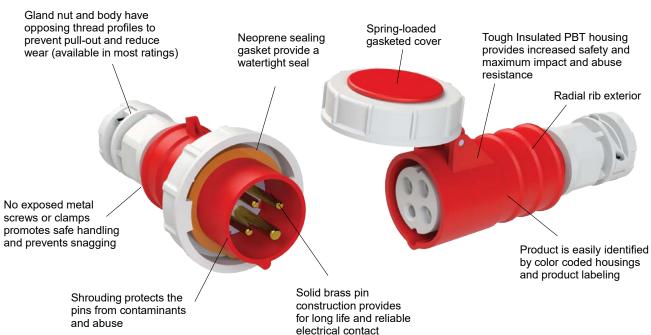
- UL1686 Safety for Pin & Sleeve Configurations
- VDE, CE
- IEC 60309-1 and 60309-2
- *UL Listed & cUL Listed File E146033 or E146032

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









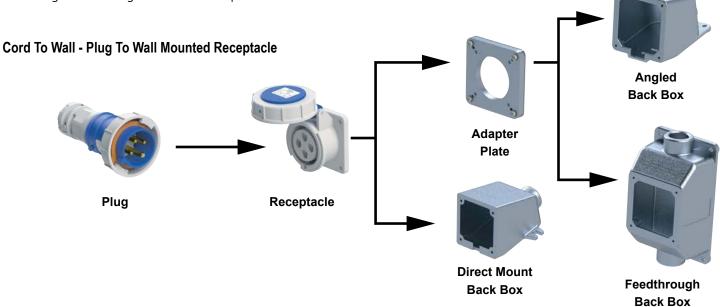


30 Amp Spring Clamp

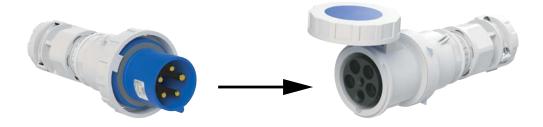
- Strong spring continuously applies pressures as strands relax
- · Eliminates timely step of adding ferrules
- No torque screwdriver required
- UL approved screwless termination for 30 Amp Devices

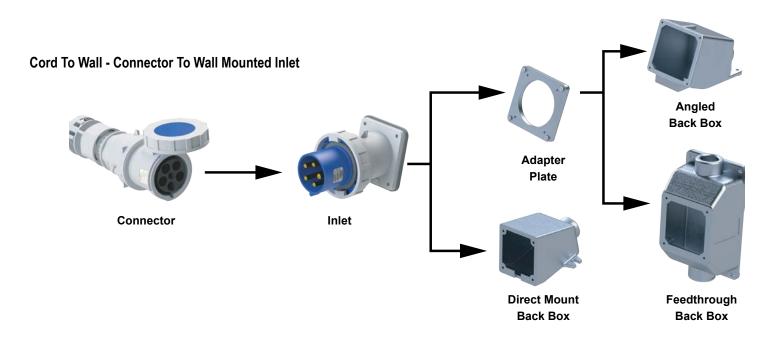
Device Selection

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

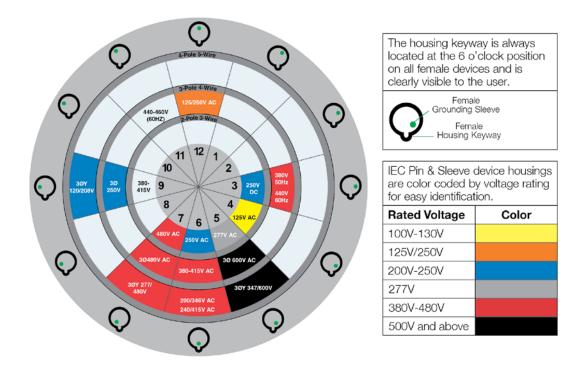


Cord To Cord - Plug To Connector





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.

	Allowable Conductors											
		From			То		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					
	#10	5	SJOOW		5	S	0.650 / 0.710					
		3		#8	3		0.565 / 0.930					
204		4		#0	4		0.625 / 1.05					
30A		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						

Materials and Specifications

Bryant IEC 6	0309 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)						

Bryant IEC 60	309 Pin and Sleeve Specifications									
	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									

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







BRY320R6W









BRY360C6W

	2-Pole, 3-Wire 20, 30 and 60 Amp												
Am	ıps	Voltage		Color	Clock	Wire Size	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE		Position		Туре	(Inch)		Number			Link
								0.37 - 0.595	Plug	C320P4WA	BRY320P4W	Retired	PDF
	-	125 VAC	_	Yellow	4 hour	14-12 AWG	Screw	0.57 - 0.595	Connector	C320C4WA	BRY320C4W	\$88.00	PDF
20	20							_	Receptacle	C320R4WA	BRY320R4W	\$82.00	PDF
20								0.27 0.505	Plug	C320P6WA	<u>BRY320P6W</u>	\$74.00	PDF
		250 VAC	0 VAC 200-250 VAC		6 hour	14-12 AWG	Screw	0.37 - 0.595	Connector	C320C6WA	BRY320C6W	\$88.00	PDF
			VAO					_	Receptacle	C320R6WA	BRY320R6W	\$82.00	PDF
			_	Yellow	4 hour	10-8 AWG	Spring	0.565 - 0.93	Plug	C330P4WA	<u>BRY330P4W</u>	Retired	PDF
	-	125 VAC						0.505 - 0.95	Connector	C330C4WA	BRY330C4W	Retired	PDF
30								_	Receptacle	C330R4WA	BRY330R4W	Retired	PDF
30								0.505 0.00	Plug	C330P6WA	BRY330P6W	\$112.00	<u>PDF</u>
	32	250 VAC	200-250 VAC	Blue	6 hour	10-8 AWG	Spring	0.565 - 0.93	Connector	C330C6WA	BRY330C6W	\$119.00	PDF
			VAO					_	Receptacle	C330R6WA	BRY330R6W	\$114.00	PDF
					6 hour	6-4 AWG		0.07 4.45	Plug	C360P6WA	BRY360P6W	\$162.00	PDF
60	60 63 2	250 VAC	200-250 VAC	Blue			Screw	0.97 - 1.45	Connector	C360C6WA	BRY360C6W	\$197.00	PDF
			VAO					_	Receptacle	C360R6WA	BRY360R6W	\$209.00	PDF

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



43001V	<u>.</u>	DK1430KJ
Dolo	4 Wire 20 and 30 Amn	

	3-Pole, 4-Wire 20 and 30 Amp												
Am	Amps Voltage		age	Color	Clock Position	Wire Size	Terminal	Cord Diameter	Device	Reference Number	Part Number	Price	Drawing Link
UL	VDE	UL	VDE		Pusitiuli		Туре	(Inch)		Nullibel			LIIIK
		200	000.050					0.41 - 0.65	Plug	C420P9WA	BRY420P9W	\$82.00	PDF
	16	3Ø 250 VAC	200-250 VAC	Blue	9 hour	14-12 AWG	Screw	0.41 - 0.05	Connector	C420C9WA	BRY420C9W	\$95.00	<u>PDF</u>
20		200 1710	V/10					_	Receptacle	C420R9WA	BRY420R9W	\$88.00	<u>PDF</u>
20								0.44 0.05	Plug	C420P7WA	BRY420P7W	\$82.00	PDF
_ 3Ø 480 VAC _	_	Red	7 hour	14-12 AWG	Screw	0.41 - 0.65	Connector	C420C7WA	BRY420C7W	\$95.00	PDF		
		100 1710						_	Receptacle	C420R7WA	BRY420R7W	\$88.00	<u>PDF</u>
		3Ø 250 VAC	200-250 VAC	Blue	9 hour	10-8 AWG	Spring	0.005 4.05	Plug	C430P9WA	BRY430P9W	\$112.00	PDF
	32							0.625 - 1.05	Connector	C430C9WA	BRY430C9W	\$139.00	PDF
		200 1710						_	Receptacle	C430R9WA	BRY430R9W	\$115.00	<u>PDF</u>
								0.005 4.05	Plug	C430P7WA	BRY430P7W	\$112.00	<u>PDF</u>
30	_	3Ø 480 VAC	_	Red	7 hour	10-8 AWG	Spring	0.625 - 1.05	Connector	C430C7WA	BRY430C7W	\$139.00	PDF
		400 1/10						_	Receptacle	C430R7WA	BRY430R7W	\$115.00	<u>PDF</u>
						10-8 AWG		0.005 4.05	Plug	C430P5WA	BRY430P5W	\$112.00	PDF
	_	- 3Ø 600 VAC		Black	5 hour		Spring	Spring 0.625 - 1.05	Connector	C430C5WA	BRY430C5W	\$139.00	PDF
		000 VAO						_	Receptacle	C430R5WA	BRY430R5W	\$115.00	PDF

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



BRY460P9W



BRY460C7W



BRY460R5W



BRY4100P9W



BRY4100C7W



BRY4100R5W

					3-	Pole, 4	-Wire 6	0 and 10	OO Amp					
Am	ps	Voltage		Color	Clock	Wire Size	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing Link	
UL	VDE	UL	VDE		Position	Size	Туре	(Inch)		Number			LIIIK	
		200	000 050					1.05 - 1.45	Plug	C460P9WA	<u>BRY460P9W</u>	\$220.00	<u>PDF</u>	
	63	200-250 VAC	Blue	9 hour	6-4 AWG	Screw	1.03 - 1.43	Connector	C460C9WA	BRY460C9W	\$245.00	PDF		
							_	Receptacle	C460R9WA	BRY460R9W	\$255.00	PDF		
	60 — 3Ø — 480 VAC —						1.05 - 1.45	Plug	C460P7WA	BRY460P7W	\$220.00	<u>PDF</u>		
60		_	Red	7 hour	6-4 AWG	Screw	1.05 - 1.45	Connector	C460C7WA	BRY460C7W	\$245.00	<u>PDF</u>		
								_	Receptacle	C460R7WA	BRY460R7W	\$255.00	PDF	
		3Ø		— Black				1.05 - 1.45	Plug	C460P5WA	BRY460P5W	\$220.00	<u>PDF</u>	
	-	600 VAC			5 hour	6-4 AWG	Screw	1.03 - 1.43	Connector	C460C5WA	BRY460C5W	\$245.00	<u>PDF</u>	
		000 1710						_	Receptacle	C460R5WA	BRY460R5W	\$255.00	PDF	
		200				4-1 AWG	S Screw		0.905 - 1.68	Plug	C4100P9WA	BRY4100P9W	\$329.00	PDF
	125	3Ø 250 VAC	200-250 VAC	Blue	9 hour			0.303 - 1.00	Connector	C4100C9WA	BRY4100C9W	\$349.00	<u>PDF</u>	
		200 1710	W/10					_	Receptacle	C4100R9WA	BRY4100R9W	\$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	BRY4100C7W	\$349.00	<u>PDF</u>	
		100 1/10						_	Receptacle	C4100R7WA	BRY4100R7W	\$312.00	PDF	
			_			4-1 AWG		0.005 1.69	Plug	C4100P5WA	BRY4100P5W	\$329.00	PDF	
	_	3Ø 600 VAC		Black	5 hour		Screw	Screw 0.905 - 1.68	Connector	C4100C5WA	BRY4100C5W	\$349.00	<u>PDF</u>	
		300 1/10						_	Receptacle	C4100R5WA	BRY4100R5W	\$312.00	PDF	

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





BRY560C9W





BRY560R7W

BRY5100P9W

	4-Pole, 5-Wire 30, 60 and 100 Amp												
Amı	ps	Voltage		Color	Clock	Wire	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE	00,01	Position	Size	Туре	(Inch)	2000	Number		77,00	Link
								0.76 - 1.15	Plug	C530P7WA	<u>BRY530P7W</u>	\$130.00	PDF
30	_	3ØY 277/480VAC	_	Red	7 hour	10-8 AWG	Spring	0.76 - 1.13	Connector	C530C7WA	<u>BRY530C7W</u>	\$139.00	PDF
211/400VAC						_	Receptacle	C530R7WA	<u>BRY530R7W</u>	\$135.00	PDF		
	63 3ØY						1.18 - 1.45	Plug	C560P9WA	<u>BRY560P9W</u>	\$232.00	<u>PDF</u>	
		3ØY 120/208		Blue	9 hour	6-4 AWG	Screw	1.10 - 1.40	Connector	C560C9WA	<u>BRY560C9W</u>	\$255.00	PDF
		VAC	VAC					_	Receptacle	C560R9WA	BRY560R9W	\$269.00	PDF
60								_	Inlet	C560B9WA	<u>BRY560B9W</u>	\$244.00	PDF
		3ØY						1.18 - 1.45	Plug	C560P7WA	BRY560P7W	\$232.00	PDF
	_	277/480	_	Red	7 hour	6-4 AWG	Screw	1.10 - 1.43	Connector	C560C7WA	BRY560C7W	\$255.00	PDF
		VAC		1100				_	Receptacle	C560R7WA	<u>BRY560R7W</u>	\$269.00	<u>PDF</u>
	100 125	3ØY	120/208 144/250					1.063 - 1.88	Plug	C5100P9WA	<u>BRY5100P9W</u>	\$372.00	PDF
100		120/208		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 Mo	unting Receptacles a	Required to mount								
	()	15º Angle	Feed-through	Four-Way	receptacles and inlets to back boxes	15º Angle						
20 and 30A	3/4	BB201WA*	FT202WA*	_	AD2020	DM20301						
20 and 30A	1	BB301WA**	FT302WA*	_	<u>AP2030</u>	_						
60A	1-1/4	BB601WA*	_	_	ADGO	DM602						
60A	1-1/2	BB602WA*	_	<u>FW60100A</u> **	<u>AP60</u>	_						
1004	1-1/2	BB1001WA*	_	FW60100A**	AD400	_						
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.







BB601WA



BB1002WA

	Dead End Back Boxes											
Part Number	Price	Description	Drawing Link									
BB201WA	\$80.00	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>	\$80.00	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.	<u>PDF</u>									
<u>BB601WA</u>	\$115.00	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>	\$115.00	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									
BB1001WA	\$170.00	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.	<u>PDF</u>									
BB1002WA	\$212.00	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

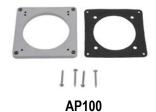
FT302WA

FW60100A

	Back Boxes											
Part Number	Price	Description	Drawing Link									
FT202WA	\$143.00	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.	<u>PDF</u>									
FT302WA	\$143.00	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									
FW60100A	\$349.00	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									







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

BRYANT® IEC 60309 Pin and Sleeve Accessories





DM20301

DM602

Dead End Direct Mount Back Boxes								
Part Number	Price	Description						
<u>DM20301</u>	\$75.00	Bryant dead end direct mount back box, (1) 3/4in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 20A and 30A devices. Mounting hardware included.	<u>PDF</u>					
<u>DM602</u>	\$103.00	Bryant dead end direct mount back box, (1) 1-1/4in female NPT conduit entries, cast aluminum housing, gray. For use with Bryant 60A devices. AP60 adapter plate and mounting hardware included.	<u>PDF</u>					

Closure Cap used with Inlets





Closure Cap used with Plugs





Closure Cap Assembly







	Closure Caps									
For Use With		Part Number	Price	Description	Drawing Link					
	3-Wire	CC320A	\$34.00	Bryant closure cap, nylon, white. For use with Bryant 20A 3-wire devices.	<u>PDF</u>					
20A	4-Wire	CC420A	\$37.00	Bryant closure cap, nylon, white. For use with Bryant 20A 4-wire devices.	PDF					
	5-Wire	CC520	\$44.00	Bryant closure cap, nylon, white. For use with Bryant 20A 5-wire devices.	<u>PDF</u>					
204	3-Wire/4-Wire	CC330	\$39.00	Bryant closure cap, nylon, white. For use with Bryant 30A 3- and 4-wire devices.	<u>PDF</u>					
30A	5-Wire	CC530	\$42.00	Bryant closure cap, nylon, white. For use with Bryant 30A 5-wire devices.	PDF					
60A	3-Wire/4-Wire/5-Wire	CC560	\$48.00	Bryant closure cap, nylon, white. For use with Bryant 60A 3-, 4- and 5-wire devices.	<u>PDF</u>					
100A	3-Wire/4-Wire/5-Wire	CC510	\$52.00	Bryant closure cap, nylon, white. For use with Bryant 100A 3-, 4-, and 5-wire devices.	PDF					