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- Self-adjusting contacts provide accurate pin insertion, producing self-cleaning effect as pin is inserted and withdrawn from sleeve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

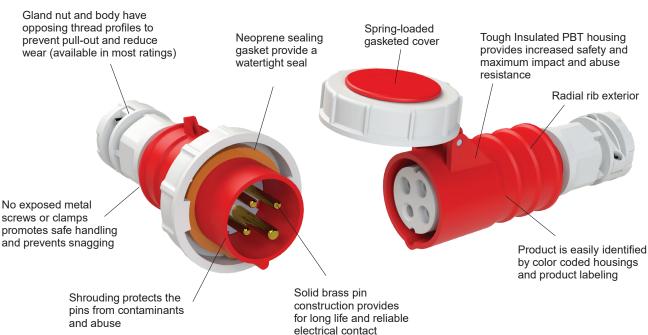
- UL1686 Safety for Pin & Sleeve Configurations
- VDE, CE
- IEC 60309-1 and 60309-2
- *UL Listed & cUL Listed File E146033 or E146032

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









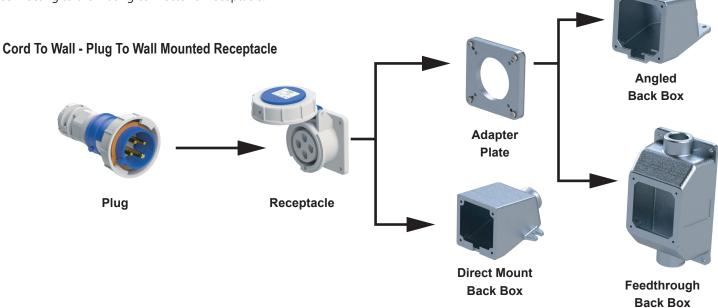


30 Amp Spring Clamp

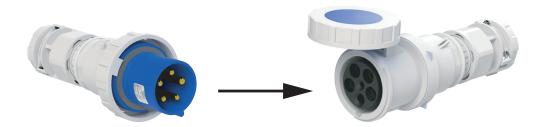
- Strong spring continuously applies pressures as strands relax
- Eliminates timely step of adding ferrules
- No torque screwdriver required
- UL approved screwless termination for 30 Amp Devices

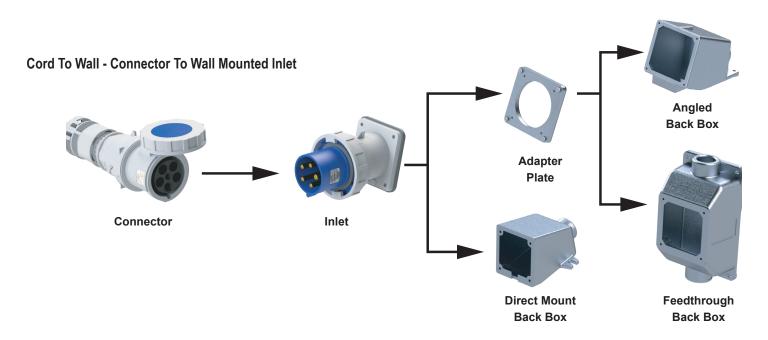
Device Selection

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

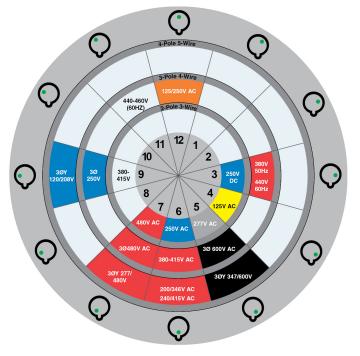


Cord To Cord - Plug To Connector





Specifications



The housing keyway is always located at the 6 o'clock position on all female devices and is clearly visible to the user.



IEC Pin & Sleeve device housings are color coded by voltage rating for easy identification.

Rated Voltage	Color
100V-130V	
125V/250V	
200V-250V	
277V	
380V-480V	
500V and above	

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	Conc	luctors		
		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
		5	SJOOW		5	S	0.650 / 0.710
	#10	3		#8	3		0.565 / 0.930
30A		4			4		0.625 / 1.05
JUA		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

BRY330C4W







BRY360C6W

	2-Pole, 3-Wire 20, 30 and 60 Amp																
An	ıps	Voltage		Color	Clock	Wire Size	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing				
UL	VDE	UL	VDE		Position	13.110 0.120	Туре	(Inch)	20000	Number			Link				
								0.37 - 0.595	Plug	C320P4WA	<u>BRY320P4W</u>	\$74.00	<u>PDF</u>				
	_	125 VAC	_	Yellow	4 hour	14-12 AWG	Screw	0.57 - 0.595	Connector	C320C4WA	BRY320C4W	\$88.00	<u>PDF</u>				
20	20							_	Receptacle	C320R4WA	<u>BRY320R4W</u>	\$82.00	PDF				
20	16 250 VAC 20											0.27 0.505	Plug	C320P6WA	BRY320P6W	\$74.00	<u>PDF</u>
		200-250 Blue	Blue	6 hour	14-12 AWG	Screw	0.37 - 0.595	Connector	C320C6WA	BRY320C6W	\$88.00	<u>PDF</u>					
			VAO					_	Receptacle	C320R6WA	BRY320R6W	\$82.00	<u>PDF</u>				
			S VAC —	Yellow	4 hour	10-8 AWG	Spring	0.505 0.00	Plug	C330P4WA	BRY330P4W	Retired	<u>PDF</u>				
	_	125 VAC						Spring	0.565 - 0.93	Connector	C330C4WA	BRY330C4W	Retired	<u>PDF</u>			
30								_	Receptacle	C330R4WA	BRY330R4W	\$114.00	<u>PDF</u>				
30								0.505.000	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	<u>PDF</u>				
					6 hour	6-4 AWG		0.07 4.45	Plug	C360P6WA	BRY360P6W	\$162.00	PDF				
60	60 63 2	250 VAC	AC 200-250 VAC	RILIA			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



	3-Pole, 4-Wire 20 and 30 Amp												
Am	·	Voltage		Color	Clock Position	Wire Size	Terminal Type	Cord Diameter	Device	Reference Number	Part Number	Price	Drawing Link
UL	VDE	UL	VDE		rusiliuli		туре	(Inch)		Nullinei			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 - 0.00	Connector	C420C9WA	BRY420C9W	\$95.00	PDF
20						_	Receptacle	C420R9WA	<u>BRY420R9W</u>	\$88.00	PDF		
	0.00						0.41 - 0.65	Plug	C420P7WA	<u>BRY420P7W</u>	\$82.00	PDF	
	I _ I	3Ø –	_	Red	7 hour	14-12 AWG	Screw	0.41 - 0.03	Connector	C420C7WA	<u>BRY420C7W</u>	\$95.00	PDF
		100 1710						_	Receptacle	C420R7WA	<u>BRY420R7W</u>	\$88.00	<u>PDF</u>
		.~	200-250 VAC	Blue	9 hour	10-8 AWG	Spring	0.625 - 1.05	Plug	C430P9WA	<u>BRY430P9W</u>	\$112.00	<u>PDF</u>
	32	3Ø 250 VAC						0.025 - 1.05	Connector	C430C9WA	<u>BRY430C9W</u>	\$139.00	PDF
		200 1710	W/10					_	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	<u>PDF</u>
		400 0710						_	Receptacle	C430R7WA	<u>BRY430R7W</u>	\$115.00	<u>PDF</u>
		.~						0.605 1.05	Plug	C430P5WA	<u>BRY430P5W</u>	\$112.00	<u>PDF</u>
	_		3Ø 600 VAC —	Black	5 hour	10-8 AWG	Spring	0.625 - 1.05	Connector	C430C5WA	BRY430C5W	\$139.00	PDF
		000 1/10							Receptacle	C430R5WA	<u>BRY430R5W</u>	\$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	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing						
UL	VDE	UL	VDE		Position	Size	Туре	(Inch)		Number			Link						
		200						1.05 - 1.45	Plug	C460P9WA	<u>BRY460P9W</u>	\$220.00	PDF						
	63 3Ø 200-250 250 VAC VAC	200-250 VAC	Blue	9 hour	6-4 AWG	Screw	1.05 - 1.45	Connector	C460C9WA	BRY460C9W	\$245.00	<u>PDF</u>							
		W.10					_	Receptacle	C460R9WA	BRY460R9W	\$255.00	<u>PDF</u>							
	60 — 3Ø 480 VAC —						1.05 - 1.45	Plug	C460P7WA	<u>BRY460P7W</u>	\$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	<u>BRY460R7W</u>	\$255.00	<u>PDF</u>							
		200	- Riack				G Screw	1.05 - 1.45	Plug	C460P5WA	<u>BRY460P5W</u>	\$220.00	<u>PDF</u>						
	_	3Ø 600 VAC		Black	5 hour	6-4 AWG		Screw	1.05 - 1.45	Connector	C460C5WA	BRY460C5W	\$245.00	<u>PDF</u>					
		000 1/10						_	Receptacle	C460R5WA	BRY460R5W	\$255.00	PDF						
		.~				4-1 AWG			0.905 - 1.68	Plug	C4100P9WA	<u>BRY4100P9W</u>	\$329.00	<u>PDF</u>					
	125	3Ø 250 VAC	200-250 VAC	Blue	9 hour		4-1 AWG	4-1 AWG	4-1 AWG	4-1 AWG	NG Screw	Screw	Screw	0.905 - 1.00	Connector	C4100C9WA	BRY4100C9W	\$349.00	<u>PDF</u>
		200 1/10	W/10					_	Receptacle	C4100R9WA	BRY4100R9W	\$312.00	<u>PDF</u>						
								0.905 - 1.68	Plug	C4100P7WA	BRY4100P7W	\$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 —	400 VAO							Receptacle	C4100R7WA	BRY4100R7W	\$312.00	PDF						
			3Ø			4-1 AWG		0.905 - 1.68	Plug	C4100P5WA	BRY4100P5W	\$329.00	PDF						
	- ,	3Ø 600 VAC		Black	5 hour		Screw	0.905 - 1.08	Connector	C4100C5WA	BRY4100C5W	\$349.00	<u>PDF</u>						
		000 VAO						_	Receptacle	C4100R5WA	BRY4100R5W	\$312.00	PDF						

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







BRY560C9W







BRY5100P9W

	4-Pole, 5-Wire 30, 60 and 100 Amp												
Am	ps	Voltage		Color	Clock	Wire	Terminal	Cord Diameter	Device	Reference	Part Number	Price	Drawing
UL	VDE	UL	VDE		Position	Size	Туре	(Inch)		Number		7 7.50	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 - 1.13	Connector	C530C7WA	<u>BRY530C7W</u>	\$139.00	PDF
277/480VAC						_	Receptacle	C530R7WA	BRY530R7W	\$135.00	PDF		
					9 hour	6-4 AWG		1.18 - 1.45	Plug	C560P9WA	BRY560P9W	\$232.00	<u>PDF</u>
	63			0 Blue			.WG Screw	Sorow	1.10 - 1.45	Connector	C560C9WA	BRY560C9W	\$255.00
		VAC	VAC					_	Receptacle	C560R9WA	BRY560R9W	\$269.00	PDF
60								_	Inlet	C560B9WA	<u>BRY560B9W</u>	\$244.00	PDF
		3ØY						1.18 - 1.45	Plug	C560P7WA	<u>BRY560P7W</u>	\$232.00	<u>PDF</u>
	-	277/480	_	Red	7 hour	6-4 AWG	Screw	1.10 - 1.45	Connector	C560C7WA	<u>BRY560C7W</u>	\$255.00	PDF
		VAC		1100				_	Receptacle	C560R7WA	BRY560R7W	\$269.00	<u>PDF</u>
		3ØY	120/208-					1.063 - 1.88	Plug	C5100P9WA	BRY5100P9W	\$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											
For Use With			Back Boxes		Adapter Plates	Direct Mount Back Boxes						
	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*	_	A D2020	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>	_						
100A	1-1/2	BB1001WA*	_	<u>FW60100A</u> **	A D400	_						
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	\$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.	<u>PDF</u>								
<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.	<u>PDF</u>								
<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.	<u>PDF</u>								
<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.	<u>PDF</u>								

BRYANT® IEC 60309 Pin and Sleeve Accessories







FT202WA

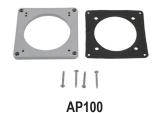
FT302WA

FW60100A

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







Adapter Plates								
Part Number	Price	rice 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





<u>DM602</u>

Dead End Direct Mount Back Boxes								
Part Number	Price	Description	Drawing Link					
<u>DM20301</u>	\$67.00	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.	PDF					
<u>DM602</u>	\$92.00	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>					

Note: Direct Mount Boxes for use with receptacles only.

Closure Cap used with Inlets

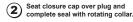


Closure Cap used with Plugs



Closure Cap Assembly







	Closure Caps									
	For Use With	Part Number	Price	Description	Drawing Link					
20A	3-Wire	CC320A	\$34.00	Bryant closure cap, nylon, white. For use with Bryant 20A 3-wire devices.	PDF					
	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>					
20.4	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					