

# C-Series - A New Generation of Pin & Sleeve Devices

Hubbell now offers a complete line of commercial grade pin and sleeve wiring devices. Safety, durability, performance, and positive locking are all essential to you. But so is economy.

Where the application calls for a light-industrial wiring device designed and constructed with safety in mind, Hubbell C-Series pin and sleeve devices are the answer.

The North American devices are available in 20, 30, 60, and 100 Amp watertight configurations while the European devices are available in 16,32,63, and 125 Amp watertight and splashproof configurations.

### An airtight case for a watertight pin and sleeve.

Often, pin and sleeve devices are used in applications where water is present and that can make short work of an unprotected device. To minimize that risk, C-Series is designed with features that make them watertight.

For example, the self-closing, gasketed cover on the receptacle and connector body seats to provide a weatherproof seal and makes a watertight seal when locked . The plug and inlet are watertight when connected to a mating device and locked with the locking ring or closure cap.

Furthermore, neoprene glands provide a reliable watertight connection at the cable entry point. The same protective features make the C-Series pin and sleeve device dust tight, as well as watertight to reduce the risk of contamination by metal filings or dust.

#### A watertight pin and sleeve that holds tight, too.

To protect the internal wire termination, the new C-Series pin and sleeve devices feature an internal cable grip which can handle a wide variety of cable sizes to prevent conductor movement and strain on the terminals.

#### But we didn't stop there.

A tough pin and sleeve device has to withstand more than just external impact. It also has to withstand possible internal heat build-up. To meet this requirement, the C-Series devices utilize a glass filled nylon contact carrier. The result: interiors that resist arcing and prevent damage in the event of heat build-up due to overloads.

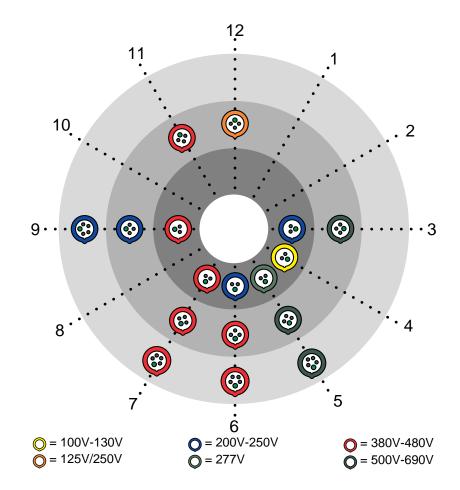
The C-Series also incorporates solid brass pins and sleeves combined with stainless steel components to improve overall corrosion resistance.

## **Hubbell Safe**

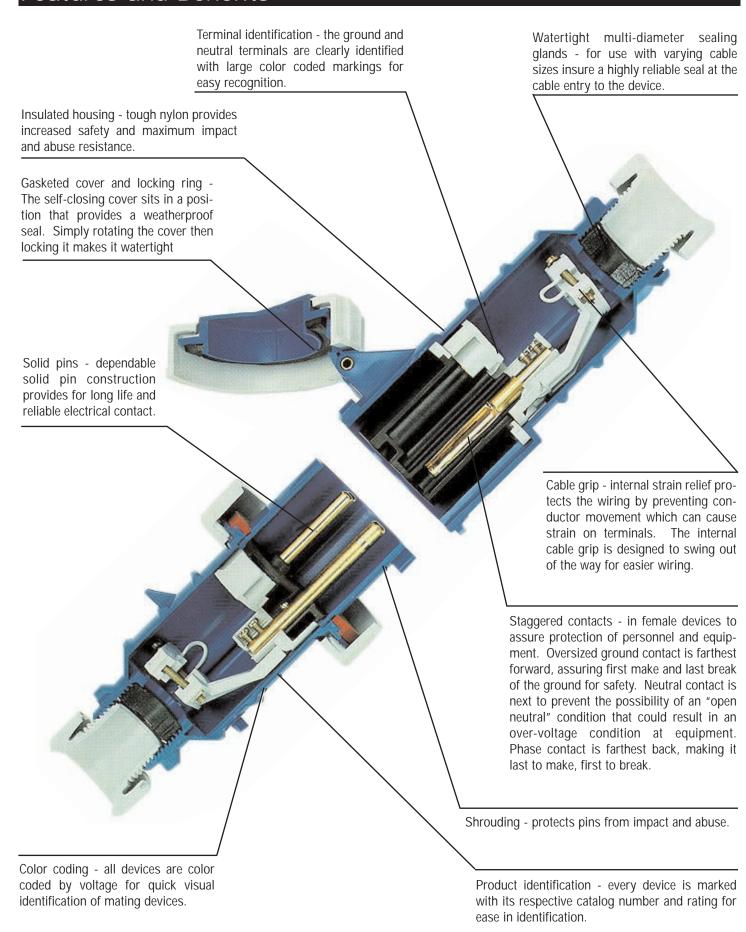
The C-Series devices are designed and built to conform to IEC 309-2, the worldwide pin and sleeve standard established by the International Electrotechnical Commission. This is a uniform system that makes the mating of plugs and receptacles of different voltages and current ratings physically impossible as required by the National Electrical Code.

C-Series devices are color coded according to voltage rating and female grounding contact position. Within a particular voltage group, every plug and the weatherproof cap on every receptacle is identical in color. All 250 VAC devices are blue, all 480 VAC devices are red, etc.

As shown, a clock face is used to represent the ground sleeve position for all receptacles. With the keyway at the bottom, the female grounding sleeve will appear at one of the twelve "hour" positions. Using this system, it is easy to identify the system voltage for any plug and receptacle. This standard calls out a singly rated non-interchangeable configuration for every voltage and type of service throughout the world.



## Features and Benefits



# Watertight Devices Ordering Information

Pin and Sleeve C-Series

20 through 100 Ampere – North American Ratings 16 through 125 Ampere – International Ratings

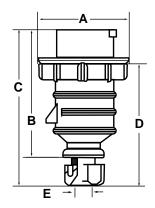
ŲĹ)	(SP∘ (	CE	.\ IP	67	Watertight De	vices			Back Boxes		
	Poles and Wires	Configur Recep./ Conn.		Voltage	Receptacle	Plug	Connector	MIN. MAX.  Cord Dia. inches	Nonmetallic	Metallic	Adapter Plate
6	2P3W		<u></u>	200-250	C316R6W	C316P6W	C316C6W	.365625	BB2030N*	SP20301	CAP2030
	4P5W		<u></u>	200/346 240/415	C516R6W	C516P6W	C516C6W	.365625	BB2030N*	SP20301	CAP2030
0	2P3W		<u></u>	125	C320R4W	C320P4W	C320C4W	.365625	BB2030N*	SP20301	CAP2030
	2P3W		<b>©</b>	250	C320R6W	C320P6W	C320C6W	.365625	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	125/250	C420R12W	C420P12W	C420C12W	.365625	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	30250	C420R9W	C420P9W	C420C9W	.365625	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	3Ø480	C420R7W	C420P7W	C420C7W	.365625	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	3Ø600	C420R5W	C420P5W	C420C5W	.365625	BB2030N*	SP20301	CAP2030
0	2P3W		<u></u>	250	C330R6W	C330P6W	C330C6W	.56595	BB2030N*	SP20301	CAP2030
	2P3W		<b>③</b>	480	C330R7W	C330P7W	C330C7W	.56595	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	3Ø250	C430R9W	C430P9W	C430C9W	.56595	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	3Ø480	C430R7W	C430P7W	C430C7W	.56595	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	3Ø600	C430R5W	C430P5W	C430C5W	.56595	BB2030N*	SP20301	CAP2030
	4P5W		<b>③</b>	3ØY120/208	C530R9W	C530P9W	C530C9W	.56595	BB2030N*	SP20301	CAP2030
	4P5W		<b>③</b>	3ØY277/480	C530R7W	C530P7W	C530C7W	.56595	BB2030N*	SP20301	CAP2030
2	2P3W		<b>©</b>	200-250	C332R6W	C332P6W	C332C6W	.56595	BB2030N*	SP20301	CAP2030
	3P4W		<b>③</b>	380V 50Hz 440V 60Hz	C432R3W	C432P3W	C432C3W	.56595	BB2030N*	SP20301	CAP2030
	4P5W		<b>③</b>	200/346 240/415	C532R6W	C532P6W	C532C6W	.56595	BB2030N*	SP20301	CAP2030
0	3P4W		<b>③</b>	3Ø250	C460R9W	C460P9W	C460C9W	.78-1.40	BB60N*	SP602	CAP60
	3P4W		<b>③</b>	3Ø480	C460R7W	C460P7W	C460C7W	.78-1.40	BB60N*	SP602	CAP60
	3P4W		<b>©</b>	3Ø600	C460R5W	C460P5W	C460C5W	.78-1.40	BB60N*	SP602	CAP60
	4P5W		<b>③</b>	3ØY120/208	C560R9W	C560P9W	C560C9W	.78-1.40	BB60N*	SP602	CAP60
3	4P5W		<b>③</b>	200/346 240/415	C563R6W	C563P6W	C563C6W	.78-1.40	BB60N*	SP602	CAP60
00	3P4W		<b>③</b>	125/250	C4100R12W	C4100P12W	C4100C12W	.92-1.72	BB100N*	BB1001W*	CAP100
	3P4W		<b>③</b>	3Ø250	C4100R9W	C4100P9W	C4100C9W	.92-1.72	BB100N*	BB1001W*	CAP100
	3P4W		<b>③</b>	3Ø480	C4100R7W	C4100P7W	C4100C7W	.92-1.72	BB100N*	BB1001W*	CAP100
	3P4W		<b>©</b>	3Ø600	C4100R5W	C4100P5W	C4100C5W	.92-1.72	BB100N*	BB1001W*	CAP100
	4P5W		<b>③</b>	3ØY120/208	C5100R9W	C5100P9W	C5100C9W	.92-1.72	BB100N*	BB1001W*	CAP100
25	4P5W		<b>©</b>	200/346 240/415	C5125R6W	C5125P6W	C5125C6W	.92-1.72	BB100N*	BB1001W*	CAP100

<sup>\*</sup> Adapter plate required

# Dimensions - Watertight Devices

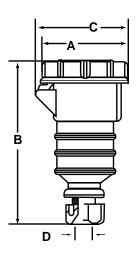
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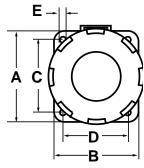
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Plugs	Α	В	С	D	Е
C320P	2.75	4.37	5.42	4.11	0.62
	70.5	112	139	105.5	16
C420P	3.04	4.37	5.42	4.11	0.62
	78	112	139	105.5	16
C520P	3.37	4.60	5.66	4.35	0.62
	86.5	118	145	111.5	16
C330P, C430P	3.67	5.62	6.67	4.95	0.88
	94	144	171	127	22.5
C530P	3.96	5.62	6.67	4.95	0.88
	101.5	144	171	127	22.5
C360P, C460P,	4.43	8.81	9.91	7.49	1.43
C560P	113.5	226	254	192	36.5
C3100P, C4100P,	4.88	9.87	11.15	8.39	1.72
C5100P	125	253	286	215	44

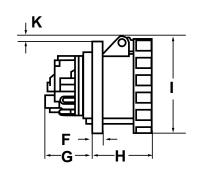


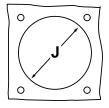
## (inch/mm)

` '					
Connectors	Α	В	С	D	
C320C	2.75	5.97	3.00	0.62	
	70.5	153	77	16	
C420C	3.04	5.97	3.24	0.62	
	78	153	83	16	
C520C	3.37	6.20	3.63	0.62	
	86.5	159	93	16	
C330C, C430C	3.67	7.33	3.86	0.88	
	94	188	99	22.5	
C530C	3.96	7.33	4.17	0.88	
	101.5	188	107	22.5	
C360C, C460C,	4.29	10.61	4.43	1.42	
C560C	110	272	113.5	36.5	
C3100C, C4100C	4.91	12.01	4.99	1.72	
	126	308	128	44	
C5100C	4.91	12.01	4.99	1.72	
	126	308	128	44	









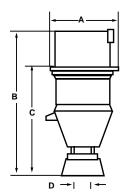
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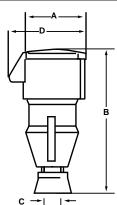
Receptacles	Α	В	С	D	Е	F	G	Н	I	J	K
C320R	2.93	2.93	2.34	2.34	0.22	0.27	0.66	2.22	2.96	1.76	0.14
	75	75	60	60	5.5	7	17	57	76	45	3.5
C420R	2.93	2.93	2.34	2.34	0.22	0.27	1.01	2.26	3.24	1.76	0.27
	75	75	60	60	5.5	7	26	58	83	45	7
C520R	2.93	2.93	2.34	2.34	0.22	0.27	0.66	2.22	3.63	2.15	0.45
	75	75	60	60	5.5	7	17	57	93	55	11.5
C330R, C430R	2.93	2.93	2.34	2.34	0.22	0.31	1.40	2.54	3.90	2.34	0.47
	75	75	60	60	5.5	8	36	65	100	60	12
C530R	2.93	2.93	2.34	2.34	0.22	0.31	0.74	2.54	3.90	2.34	0.66
	75	75	60	60	5.5	8	19	65	100	60	17
C360R, C460R,	4.17	3.9	3.32	3.00	0.25	0.47	2.20	2.96	4.41	3.43	0.27
C560R	107	100	85	77	6.5	12	56.5	76	113	88	7
C3100R, C4100R,	4.68	4.68	3.90	3.90	0.25	0.82	1.95	4.56	5.03	3.28	0.23
C5100R	120	120	100	100	6.5	21	50	117	129	84	6

# Ordering Information / Dimensions - Splashproof Devices

$\overline{c}$		<b>√</b> 1	P44		Splashproof I	Devices			Back Boxes		
•	Poles and	Configur Recep./						MIN. MAX.  Cord Dia.	PROGRAMA A	\$ \\	Adapter
Amps	Wires	Conn.	Inlet	Voltage	Receptacle	Plug	Connector	inches	Nonmetallic	Metallic	Plate
16	2P3W		<b>©</b>	100-130	C316R4S	C316P4S	C316C4S	.365625	BB2030N*	SP20301	CAP2030
	2P3W		<b>③</b>	200-250	C316R6S	C316P6S	C316C6S	.365625	BB2030N*	SP20301	CAP2030
	4P5W		<b>③</b>	200/346 240/415	C516R6S	C516P6S	C516C6S	.365625	BB2030N*	SP20301	CAP2030
32	2P3W		<b>③</b>	100-130	C332R4S	C332P4S	C332C4S	.56595	BB2030N*	SP20301	CAP2030
	2P3W		<b>③</b>	200-250	C332R6S	C332P6S	C332C6S	.56595	BB2030N*	SP20301	CAP2030
	4P5W		<b>③</b>	200/346 240/415	C532R6S	C532P6S	C532C6S	.56595	BB2030N*	SP20301	CAP2030

<sup>\*</sup> Adapter plate required



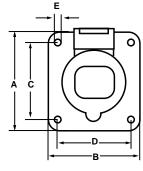


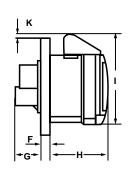
(inch/mm)					
Plugs	Α	В	С	D	
C316P	1.99 51	5.38 138	3.98 102	0.66 17	
C516P	2.5 64	5.58 143	4.17 107	0.66 17	
C332P	2.57 66	6.83 175	5.07 130	0.96 24.5	
C532P	2.85 73	6.86 176	5.11 131	.96 24.5	

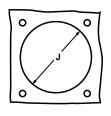
(inch/mm)					
Connectors	Α	В	С	D	
C316C	1.99 51	5.85 150	0.66 17	2.77 71	
C516C	2.50 64	6.05 155	0.66 17	3.32 85	
C332C	2.57 66	7.33 188	0.96 24.50	3.63 93	
C532C	2.81	7.37	.96	3.86	

189

72







24.5

99

#### (inch/mm)

Receptacles	Α	В	С	D	E	F	G	Н	1	J	K
C316R	2.93	2.93	2.34	2.34	0.22	0.27	0.66	1.99	2.73	1.76	0.40
	75	75	60	60	5.5	/	17	51	70	45	3.5
C516R	2.93	2.93	2.34	2.34	0.21	0.27	0.66	2.07	3.32	2.15	.45
	75	75	60	60	5.5	7	17	53	85	55	11.5
C332R	2.93	2.93	2.34	2.34	0.21	0.31	1.40	2.42	3.51	2.34	.47
	75	75	60	60	5.5	8	36	62	90	60	12
C532R	2.93	2.93	2.34	2.34	.21	.31	.74	2.42	3.82	2.34	.47
	75	75	60	60	5.5	8	19	62	98	60	17

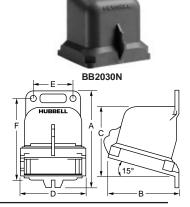
## Accessories

#### Nonmetallic Back Box

This Hubbell back box is made of a high grade engineered thermoplastic that meets IP67 requirements. It resists chemicals, abuse and UV rays. What's more, this box has an integral grounding plate and, when installed with a watertight conduit hub, it meets Type 4X requirements (hose-directed water, corrosion resistance).

Description	Hub Size Inch (mm)	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Back box for 20 & 30A devices.	1*	5.67	4.44 (144.0)	4.05 (112.8)	3.91 (102.9)	2.35 (99.3)	4.92 (59.7)	30 (125.0)	BB2030N
Back box for 60A devices.	11/4**	7.76	5.16 (197.0)	5.87 (131.0)	4.72 (149.0)	2.99 (120.0)	6.94 (76.0)	70 (176.0)	BB60N
Back box for 100A devices.	11/2***	8.21	6.23 (209.0)	6.31 (158.0)	5.71 (160.3)	3.99 (145.0)	7.41 (101.0)	120 (188.0)	BB100N

<sup>\*</sup> Hub is not included; order one of the following Raco part numbers: \* 1" = 1704, \*\* 1 1/4 = 1705, \*\*\* 1 1/2 = 1706

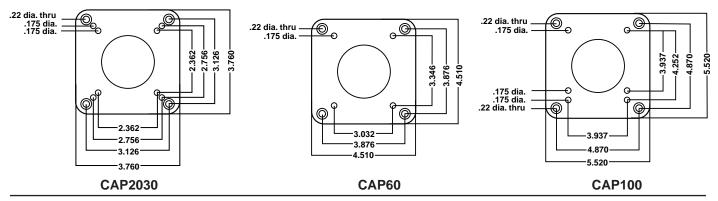


#### Adapter Plate

Adapter plate allows receptacles and inlets to be mounted to nonmetallic back boxes

Description	Catalog Number
20, 30, 16, 32 Amp Adapter Plate	CAP2030
60, 63 Amp Adapter Plate	CAP60
100, 125 Amp Adapter Plate	CAP100

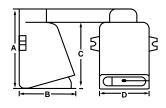
#### Adapter Plate thickness .375



Metallic Back Boxes, Back Box Dimensions

Description	Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	Catalog Number
15° angle for 20A & 30A	3/4"	5.07 130	3.38 87	4.13 106	3.62 93	SP20301
15° angle for 60A	1 1/4"	5.81 149	4.28 110	4.56 117	4.58 117	SP602
15° angle for 100A	1 1/2"	8.38 215	6.75 173	6.88 176	5.50 141	BB1001W*

Note: All metal boxes are made of cast aluminum, \*Adapter plate required



#### Closure Caps

Cap assemblies provide watertight sealing to a disconnected male Pin and Sleeve plug or inlet. Manufactured out of the same tough nonmetallic material as the watertight Pin and Sleeve devices for corrosion and abuse resistance.

Description	Catalog Number	
Fits all 20A 3 wire plugs and inlets	PC320	
Fits all 20A 4 wire plugs and inlets	PC420	
Fits all 20A 5 wire plugs and inlets	PC520	
Fits all 30A 3 and 4 wire plugs and inlets	PC3430	
Fits all 30A 5 wire plugs and inlets	PC530	
Fits all 60A plugs and inlets	PC60	
Fits all 100A plugs and inlets	PC100	



# Specifications

Listed to UL Standard 1682 & 1686

Certified to CSA Standard C22.2 Number 182.1 (Industrial-type, Special-use Attachment Plugs, Receptacles and Connectors).

### **Watertight and Splashproof Materials**

Part	Material
Plug	
Housing	Nylon.
Locking Ring	Polycarbonate.
Gasket & Seals	Neoprene, EPDM, TPE, Silicone.
Cord Clamp Assembly	Nylon.
Gland Nut	Nylon.
Assembly Screws	Stainless Steel (300 Series)(20, 30A, Plated Steel).
Contact Carrier	Reinforced Nylon (60A Nylon).
Retainer	Reinforced Nylon
Ground, Phase Pins	Brass.
Terminal	Plated Steel.
Receptacle	
Housing	Nylon.
Mounting Flange	Nylon.
Cover Arm	Nylon.
Cover	Polycarbonate.
Cover Rivet	Brass.
Cover Spring	Stainless Steel (300 Series).
Gaskets & Seals	Neoprene, EPDM, TPE, Silicone.
Mounting Screws	Stainless Steel (300 Series).
Terminal Screw	Plated Steel.
Phase, Ground Sleeves	Brass.
Contact Carrier & Retainer	Reinforced Nylon (60A Nylon)
Connector Body	
Housing	Nylon.
Cord Clamp Assembly	Nylon.
Gland Nut	Nylon.
Cover Arm	Nylon.
Cover	Polycarbonate.
Cover Rivet	Brass.
Cover Spring	Stainless Steel (300 Series).
Gaskets & Seals	Neoprene, EPDM, TPE, Silicone.
Contact Carrier	Reinforced Nylon (60A Nylon).
Retainer	Reinforced Nylon.
Phase, Ground Sleeves	Brass.
Terminal	Plated Steel
Assembly Screws	Stainless Steel (300 Series) (20, 30A Plated Steel)



### Wiring Device - Kellems

Hubbell Incorporated (Delaware) • 185 Plains Road • Milford, CT 06460-2420 • (203) 882-4800 • FAX (800) 255-1031 World Wide Web URL: http://www.hubbell-wiring.com

#### **Worldwide Locations**

Hubbell Canada (905) 839-1138, Fax (905) 839-9108 Hubbell Ltd. England (441) 234-855444, Fax (441) 234-854008 Hubbell-Taian Co., Ltd., (886) 2 567-5995, Fax (886) 2 567-4853 Hubbell Int'l. Inc., Korea Branch (82) 2 607-1362, Fax (82) 2 603-7386 Hubbell de Mexico, S.A. de C.V. (52) 5 575-2022, Fax (52) 5 559-8626 Caribe Sales Agencies, Puerto Rico (809) 720-7185, Fax (809) 789-2796 Hubbell S.E. Asia Pte., Ltd., 65-4544772, Fax 65-4544775 Hubbell Inc. Middle East (971) 4 369-763, Fax (971) 4 360-541