

Pin & Sleeve Devices

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Pin & Sleeve Devices

G-1 - G-9



Our Series 309 Watertight Pin and Sleeve Devices constitute one of the most complete lines of products in the industry, and they may well be the most rugged as well. Long-time favorites of OEMs and contractors alike, Series 309 devices are recognized for superior performance, durability, and ease of installation. We manufacture a full 20A to 100A line of standard watertight plugs, connectors, receptacles, and inlets, with both fused and non-fused mechanical interlocks. Their sturdy nylon construction is complemented by the highly corrosion-resistant nickel plating we use to protect each pin, sleeve, and contact. Extra large wiring compartments make installation easy. And our deep watertight seal can be wrench tightened for unsurpassed resistance to moisture. All devices are IEC 309 compliant for interchangeability with other IEC 309 devices, but why would you use anything less than a Cooper Wiring Devices Series 309?



INDUSTRIAL

G-Intro-1

PIN & SLEEVE
DEVICES

Series 309 Watertight Devices IEC Configuration NEMA 4X, IP66, IEC 309

Our redesigned watertight Series 309 devices meet the world's toughest standards – and yours.

Cooper Wiring Devices' new Series 309 plugs, connectors and receptacles provide safe, reliable power distribution in the most demanding environments. From a food processing plant to a chemical production facility, Series 309 devices exceed customer expectations around the globe. Cooper's Series 309 pin and sleeve devices are newly designed to deliver watertight, heavy-duty performance. Their fast and easy installation has made them a favorite of both OEM's and contractors. Whether your application calls for superior environmental sealing, mechanical locking to prevent accidental

disconnection under load, or high-strength durability, you can count on Series 309.

Designed and manufactured to exceed the rigorous IEC 309-1 and 309-2 watertight performance requirements, Series 309 plugs are interchangeable with all other nonhazardous, UL and cUL listed IEC 309 connectors and receptacles. But while there are other pin & sleeve products that meet IEC 309 standards, compare and you'll find that, feature for feature, none of them can match the durability and convenience of our Series 309.

APPLICATIONS

- Wet locations and hosedown areas.
- Damp or corrosive locations.
- Food processing plants.
- Computer equipment that require a secure power connection.
- Manufacturing locations where vibration, dust, metal chips, water, cleaning solvents or corrosive chemicals are present.
- Agricultural equipment connections that are exposed to the weather.
- Wastewater treatment equipment in flood-prone areas.
- Chemical processing where connections are exposed to chemicals or immersed in liquids.
- Construction sites.
- Shipyards and marinas.
- Restaurant kitchens.
- Where high physical abuse may occur.
- Where secure connection is required.



Series 309 Watertight Devices

IEC Configuration

NEMA 4X, IP66, IEC 309



FEATURES

- Voltage color coded for easy identification of mating devices.
- Oversized grounding pin assures mating only with oversized female grounding sleeve. Contacts are staggered so the ground connection always makes first and breaks last.
- Contacts are fully shrouded for mechanical protection.
- IEC 309 watertight rating provides long-term reliability in wet, dirty and muddy applications.
- External keyway for quick alignment and proper polarization.
- Replaceable spring-loaded cover with neoprene gasket on connectors and receptacles provides a watertight seal when the device is not being used.
- Redundant configuration control of voltage/ampere combinations minimizes the potential of connecting devices with different ratings.
- External mechanical cable clamp with thermoplastic elastomer sealing gland for superior strain relief.
- High-impact thermoplastic housing for abuse resistance.
- Deep-slotted terminal screws for easy, secure conductor terminations.
- Brass contacts with self-cleaning, field-proven multi-lam pressure bands for smooth pin insertion, low heat rise and quality electrical performance.
- Materials selected for use in wet locations; provides corrosion resistance.
- Bayonet-type locking ring on plugs and inlets assures a watertight seal and limits accidental disconnection.
- International configurations available.
- Positive grommet seal system at cord entry uses high hat construction for easy sizing to cord.

INDUSTRIAL

G-Intro-2
PIN & SLEEVE
DEVICES

Material Characteristics

Component Part	Receptacle	Plug	Connector	Inlet
Housing	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0
Contact carrier	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0
Phase and ground contacts	beryllium copper	—	beryllium copper	—
Phase and ground pins	—	nickel-plated brass	—	nickel-plated brass
Cover—centerpiece	Valox® polybutylene terephthalate flame rating—V0	—	Valox® polybutylene terephthalate flame rating—V0	—
Cover spring	stainless steel	—	stainless steel	—
Cover rivet	stainless steel	—	stainless steel	—
Cover gasket	silicone	—	silicone	—
Locking ring	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0	nylon 66—flame rating—V0
Locking ring gasket	—	HNBR*	—	HNBR*
Flange	nylon 66—flame rating—V0	—	—	nylon 66—flame rating—V0
Flange gasket	HNBR*	—	—	HNBR*
External cable grip	—	nylon 66—flame rating—V0	nylon 66—flame rating—V0	—
Cable sealing grommet	—	thermoplastic elastomer	thermoplastic elastomer	—
Terminal screws	mild steel—galvanized	mild steel—galvanized	mild steel—galvanized	mild steel—galvanized
Assembly screws	stainless steel	stainless steel	stainless steel	stainless steel

*HNBR—Nitrile rubber with special ozone resistance.

Mechanical Performance

Impact resistance	CSA 22.2, 182.1, UL1682
Cable grip retention	CSA 22.2, 182.1, UL1682

¹ Maximum temperature rise at full current after 50 cycles of overload at 150% of rated current.

² Number of connect and disconnect cycles at full rated current and voltage.

Electrical Performance

Dielectric voltage	3000V
Maximum working voltage	600V (rms)
Current interrupting	16A
Temperature rise	< 45°C ¹
Endurance	5000 ²



Series 309 Watertight Plugs IEC Configuration NEMA 4X, IP66, IEC 309

We meet all standards, but we don't stop there.

We looked at each aspect of the design to see how to make it better. The results are ribbed surfaces for positive handling even in dirty environments, an innovative locking finger on the cord clamp, and numerous

other enhancements. You'll also get the security of shrouded plug contacts with watertight connections, quick-check color-coded mating, and tough impact and corrosion-resistant non-metallic housings.

INDUSTRIAL

G-Intro-3 PIN & SLEEVE DEVICES

Plugs

Flat wrenching surfaces for tightening down on internal bushing, ensuring complete watertight seal at cord entry.

Impact and corrosion-resistant thermoplastic body.

Serrated and ribbed surfaces for positive gripping and handling even in harsh, dirty environments.

Mechanical cord clamp with innovative locking finger ensures a positive strain relief system.

Locking finger seats into web pockets when cord grip is tightened down, securing back cap in place even under heavy usage and vibration.

Nickel-plated brass pins offer long-life corrosion protection. Compression lugs provide reliable mechanical wire termination.

Color-coded front housing for easy and accurate identification of mating devices of same voltage.

Funneled wiring pockets for ease of inserting stranded wire. Deep pockets marked X, Y, and Z and \oplus keep bare conductors safely confined and isolated from adjacent wires.

PLUG AND RECEPTACLE CERTIFICATION & COMPLIANCE

- UL Listed 498, 1682 and 1686, (file no. E3663)
- cUL Listed to CSA Standard C22.2 no. 182.1 (file no. E3663)
- IEC 309-1 and 309-2
- NEMA 4X
- IEC IP66 housings
- VO flame rating
- Temperature Rating: 75°C Max. Continuous -40°C Min. Without impact

Series 309 Watertight Receptacles IEC Configuration NEMA 4X, IP66, IEC 309



INDUSTRIAL

G-Intro-4 PIN & SLEEVE DEVICES

Receptacles

Standard mounting footprints fits all existing Cooper Wiring Devices back boxes.

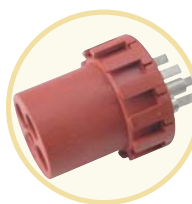
Color-coded cap accurately identifies mating plug of correct voltage.

Lockout/tagout hole for OFF position.

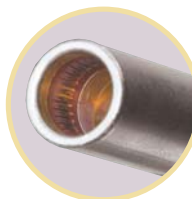
Watertight cap meets NEMA 4x, IP66 hosedown standards.



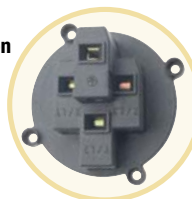
Impact-Resistant thermoplastic contact carrier provides superior electrical insulation and VØ flammability rating.



Brass contacts with self-cleaning, field-proven multi-lam pressure bands for smooth pin insertion, low heat rise and quality electrical performance.

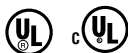


Funneled wire termination pockets have all screw heads on same side for easy conductor insertion and quick wiring.



PLUG AND RECEPTACLE CERTIFICATION & COMPLIANCE

- UL Listed 498, 1682 and 1686, (file no. E3663)
- cUL Listed to CSA Standard C22.2 no. 182.1 (file no. E3663)
- IEC 309-1 and 309-2
- NEMA 4X
- IEC IP66 housings
- VO flame rating
- Temperature Rating: 75°C Max. Continuous -40°C Min. Without impact



Series 309 Watertight Mechanical Interlocks IEC Configuration NEMA 4X, IP66, IEC 309

All the quality of our plugs and receptacles, plus an extra level of safety.

Series 309 mechanical interlocks include the same attention to detail as our other Series 309 products. For example, the enclosure's cover and body are sealed with a continuous, formed-in place gasket, so there are no seams that leak.

These devices feature mechanically interlocked dead-front receptacles that prevent the plug from being engaged or disengaged under

load. They're an excellent choice for supplying power to portable or fixed electrical equipment such as welders, motor generator sets, compressors, conveyors, portable tools, lighting systems and similar equipment in wet or corrosive locations.

The line meets OSHA's lockout/tagout requirements and utilizes industrial switches that are horsepower rated for motor load applications.

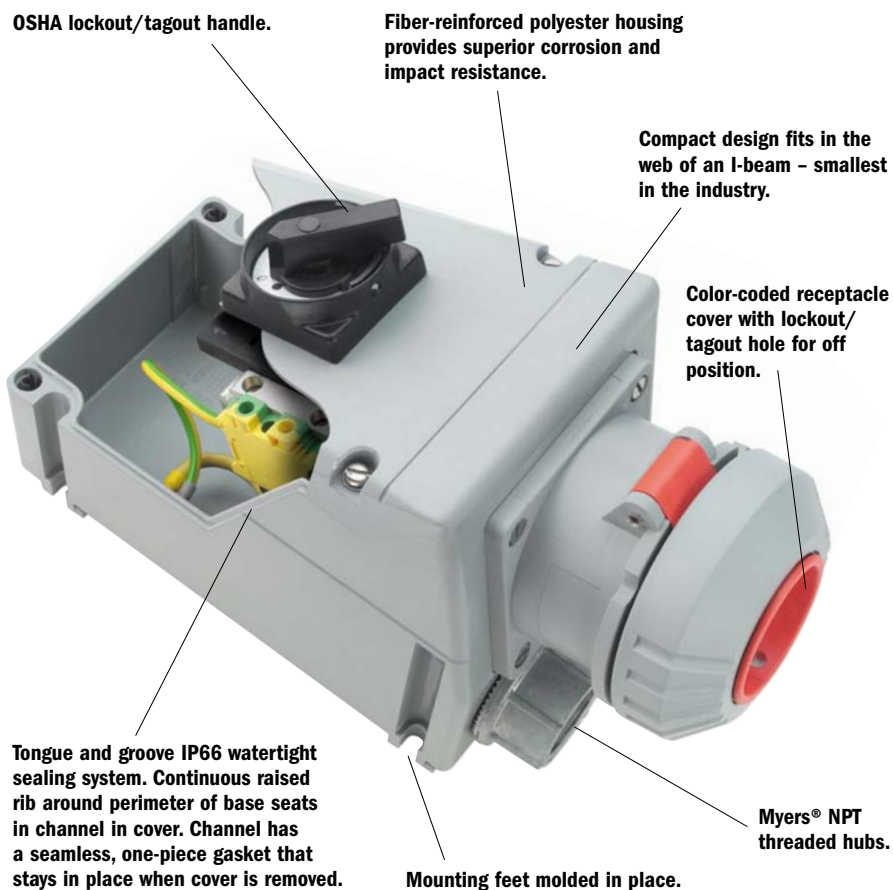
INDUSTRIAL

G-Intro-5 PIN & SLEEVE DEVICES

MECHANICAL INTERLOCK CERTIFICATION & COMPLIANCE

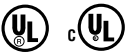
- UL Listed 508 and 1682, (file no. E135083)
- cUL Listed to CSA Standard C22.2 no. 14, 182.1 (file no. E135083)
- IEC 309-1 and 309-2
- IEC IP66
- Enclosure type: NEMA 4X
- VO flame rating
- Temperature Rating: 75°C Max. Continuous
- -40°C Min. Without impact

Watertight Mechanical Interlocks



Myers® is a registered trademark of Cooper Crouse-Hinds.

Series 309 Watertight Mechanical Interlocks IEC Configuration NEMA 4X, IP66, IEC 309



INDUSTRIAL

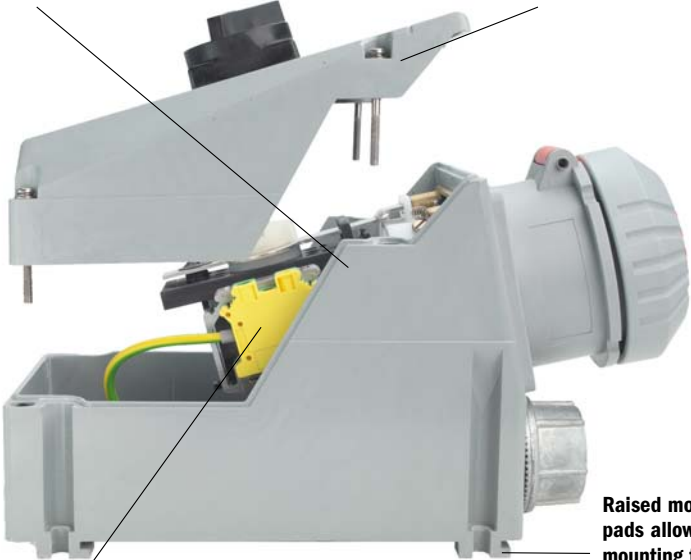
G-Intro-6 PIN & SLEEVE DEVICES

MECHANICAL INTERLOCK CERTIFICATION & COMPLIANCE

- UL Listed 508 and 1682, (file no. E135083)
- cUL Listed to CSA Standard C22.2 no. 14, 182.1 (file no. E135083)
- IEC 309-1 and 309-2
- IEC IP66
- Enclosure type: NEMA 4X
- VO flame rating
- Temperature Rating: 75°C Max. Continuous -40°C Min. Without impact

Thick, sturdy walls won't warp from hot and cold water washdown. Maintains gasket seal between cover and box.

Easy to wire. Cover cut-out design allows easy removal and permits full access to internal switch terminations.



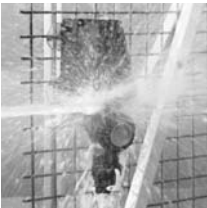
Raised mounting pads allow firm mounting to uneven surfaces. Provides water channel between wall and enclosure.



Features Horsepower-rated Bussmann® Industrial Grade Switch

Our design includes a horsepower-rated Bussmann® switch suitable up to 100A with 50K AIC rating. Auxiliary contacts available.

NEMA 4X, IP66, watertight, meets stringent hosedown requirements for food processing applications.



Horsepower Rating

Amps	Description	250V/AC	Three Phase 480V/AC	600V/AC
20A	Unfused	7.5	15	20
30A	Unfused	10	20	25
30A	Fused	5	10	15
60A	Unfused	20	40	40
60A	Fused	10	30	30
100A	Unfused	25	50	40

Bussmann® is a registered trademark of Cooper Bussmann.






























































INDUSTRIAL

G-1 PIN & SLEEVE DEVICES

Pin & Sleeve Devices

**Series 309 Watertight
Receptacles, Plugs and Connectors**
20A and 30A – North American Ratings Series 2
16A and 32A – International Ratings Series 1

Poles and Wires	Configuration Recept/Conn	Plug/Inlet	Voltage	 Receptacle	 Plug	 Connector
16 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			110-120	CW316R4W	CW316P4W	CW316C4W
2P3W			220-240	CW316R6W	CW316P6W	CW316C6W
3P4W			380-415	CW416R6W	CW416P6W	CW416C6W
4P5W			220/380 240/415	CW516R6W	CW516P6W	CW516C6W
20 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW320R4W	CW320P4W	CW320C4W
2P3W			250	CW320R6W	CW320P6W	CW320C6W
2P3W			480	CW320R7W	CW320P7W	CW320C7W
3P4W			125/250	CW420R12W	CW420P12W	CW420C12W
3P4W			3Ø250	CW420R9W	CW420P9W	CW420C9W
3P4W			3Ø480	CW420R7W	CW420P7W	CW420C7W
3P4W			3Ø600	CW420R5W	CW420P5W	CW420C5W
4P5W			3ØY120/208	CW520R9W	CW520P9W	CW520C9W
4P5W			3ØY277/480	CW520R7W	CW520P7W	CW520C7W
4P5W			3ØY347/600	CW520R5W	CW520P5W	CW520C5W
30 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW330R4W	CW330P4W	CW330C4W
2P3W			250	CW330R6W	CW330P6W	CW330C6W
2P3W			480	CW330R7W	CW330P7W	CW330C7W
3P4W			125/250	CW430R12W	CW430P12W	CW430C12W
3P4W			3Ø250	CW430R9W	CW430P9W	CW430C9W
3P4W			3Ø480	CW430R7W	CW430P7W	CW430C7W
3P4W			3Ø600	CW430R5W	CW430P5W	CW430C5W
4P5W			3ØY120/208	CW530R9W	CW530P9W	CW530C9W
4P5W			3ØY277/480	CW530R7W	CW530P7W	CW530C7W
4P5W			3ØY347/600	CW530R5W	CW530P5W	CW530C5W
32 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			110-120	CW332R4W	CW332P4W	CW332C4W
2P3W			220-240	CW332R6W	CW332P6W	CW332C6W
3P4W			380-415	CW432R6W	CW432P6W	CW432C6W
4P5W			220/380	CW532R6W	CW532P6W	CW532C6W

Pin & Sleeve Devices

**Series 309 Watertight
Inlets, Fused and Unfused Interlocks**
20A and 30A – North American Ratings Series 2
16A and 32A – International Ratings Series 1



Poles and Wires	Configuration Recept/Conn	Plug/Inlet	Voltage	Inlet	Interlock Fused	Interlock† Unfused
16 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			110-120	CW316B4W	—	CW316MI4W
2P3W			220-240	CW316B6W	—	CW316MI6W
3P4W			380-415	CW416B6W	—	CW416MI6W
4P5W			220/380 240/415	CW516B6W	—	CW516MI6W
20 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW320B4W	—	CW320MI4W
2P3W			250	CW320B6W	—	CW320MI6W
2P3W			480	CW320B7W	—	CW320MI7W
3P4W			125/250	CW420B12W	—	CW420MI12W
3P4W			3Ø250	CW420B9W	—	CW420MI9W
3P4W			3Ø480	CW420B7W	—	CW420MI7W
3P4W			3Ø600	CW420B5W	—	CW420MI5W
4P5W			3ØY120/208	CW520B9W	—	CW520MI9W
4P5W			3ØY277/480	CW520B7W	—	CW520MI7W
4P5W			3ØY347/600	CW520B5W	—	CW520MI5W
30 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW330B4W	—	CW330MI4W
2P3W			250	CW330B6W	—	CW330MI6W
2P3W			480	CW330B7W	—	CW330MI7W
3P4W			125/250	CW430B12W	—	CW430MI12W
3P4W			3Ø250	CW430B9W	CW430MIF9W	CW430MI9W
3P4W			3Ø480	CW430B7W	CW430MIF7W	CW430MI7W
3P4W			3Ø600	CW430B5W	CW430MIF5W	CW430MI5W
4P5W			3ØY120/208	CW530B9W	—	CW530MI9W
4P5W			3ØY277/480	CW530B7W	—	CW530MI7W
4P5W			3ØY347/600	CW530B5W	—	CW530MI5W
32 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			110-120	CW332B4W	—	CW332MI4W
2P3W			220-240	CW332B6W	—	CW332MI6W
3P4W			380-415	CW432B6W	—	CW432MI6W
4P5W			220/380	CW532B6W	—	CW532MI6W

† Note: Interlocks are available with an auxiliary switch.
To order insert "A" after MI in the catalog number
(e.g., CW420MIA5W).





INDUSTRIAL

G-3 PIN & SLEEVE DEVICES

Pin & Sleeve Devices

**Series 309 Watertight
Receptacles, Plugs and Connectors**
60A and 100A – North American Ratings Series 2
63A and 125A – International Ratings Series 1



Poles and Wires	Configuration		Voltage	Receptacle	Plug	Connector
	Recept/Conn	Plug/Inlet				
60 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW360R4W	CW360P4W	CW360C4W
2P3W			250	CW360R6W	CW360P6W	CW360C6W
2P3W			480	CW360R7W	CW360P7W	CW360C7W
3P4W			125/250	CW460R12W	CW460P12W	CW460C12W
3P4W			3Ø250	CW460R9W	CW460P9W	CW460C9W
3P4W			3Ø480	CW460R7W	CW460P7W	CW460C7W
3P4W			3Ø600	CW460R5W	CW460P5W	CW460C5W
4P5W			3ØY120/208	CW560R9W	CW560P9W	CW560C9W
4P5W			3ØY277/480	CW560R7W	CW560P7W	CW560C7W
4P5W			3ØY347/600	CW560R5W	CW560P5W	CW560C5W
63 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			220-240	CW363R6W	CW363P6W	CW363C6W
3P4W			380-415	CW463R6W	CW463P6W	CW463C6W
4P5W			220/380 240/415	CW563R6W	CW563P6W	CW563C6W
100 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW3100R4W	CW3100P4W	CW3100C4W
2P3W			250	CW3100R6W	CW3100P6W	CW3100C6W
2P3W			480	CW3100R7W	CW3100P7W	CW3100C7W
3P4W			125/250	CW4100R12W	CW4100P12W	CW4100C12W
3P4W			3Ø250	CW4100R9W	CW4100P9W	CW4100C9W
3P4W			3Ø480	CW4100R7W	CW4100P7W	CW4100C7W
3P4W			3Ø600	CW4100R5W	CW4100P5W	CW4100C5W
4P5W			3ØY120/208	CW5100R9W	CW5100P9W	CW5100C9W
4P5W			3ØY277/480	CW5100R7W	CW5100P7W	CW5100C7W
4P5W			3ØY347/600	CW5100R5W	CW5100P5W	CW5100C5W
125 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			220-240	CW3125R6W	CW3125P6W	CW3125C6W
3P4W			380-415	CW4125R6W	CW4125P6W	CW4125C6W
4P5W			220/380 240/415	CW5125R6W	CW5125P6W	CW5125C6W

Pin & Sleeve Devices

**Series 309 Watertight
Inlets, Fused and Unfused Interlocks**
60A and 100A – North American Ratings Series 2
63A and 125A – International Ratings Series 1



INDUSTRIAL

G-4
PIN & SLEEVE
DEVICES

Poles and Wires	Configuration Recept/Conn	Plug/Inlet	Voltage	Inlet	Interlock Fused	Interlock† Unfused
60 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW360B4W	—	CW360MI4W
2P3W			250	CW360B6W	—	CW360MI6W
2P3W			480	CW360B7W	—	CW360MI7W
3P4W			125/250	CW460B12W	—	CW460MI12W
3P4W			3Ø250	CW460B9W	CW460MIF9W	CW460MI9W
3P4W			3Ø480	CW460B7W	CW460MIF7W	CW460MI7W
3P4W			3Ø600	CW460B5W	CW460MIF5W	CW460MI5W
4P5W			3ØY120/208	CW560B9W	—	CW560MI9W
4P5W			3ØY277/480	CW560B7W	—	CW560MI7W
4P5W			3ØY347/600	CW560B5W	—	CW560MI5W
63 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			220-240	CW363B6W	—	CW363MI6W
3P4W			380-415	CW463B6W	—	CW463MI6W
4P5W			220/380 240/415	CW563B6W	—	CW563MI6W
100 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			125	CW3100B4W	—	CW3100MI4W
2P3W			250	CW3100B6W	—	CW3100MI6W
2P3W			480	CW3100B7W	—	CW3100MI7W
3P4W			125/250	CW4100B12W	—	CW4100MI12W
3P4W			3Ø250	CW4100B9W	—	CW4100MI9W
3P4W			3Ø480	CW4100B7W	—	CW4100MI7W
3P4W			3Ø600	CW4100B5W	—	CW4100MI5W
4P5W			3ØY120/208	CW5100B9W	—	CW5100MI9W
4P5W			3ØY277/480	CW5100B7W	—	CW5100MI7W
4P5W			3ØY347/600	CW5100B5W	—	CW5100MI5W
125 Amp Watertight Pin & Sleeve				Catalog No.		
2P3W			220-240	CW3125B6W	—	CW3125MI6W
3P4W			380-415	CW4125B6W	—	CW4125MI6W
4P5W			220/380 240/415	CW5125B6W	—	CW5125MI6W

† Note: Interlocks are available with an auxiliary switch.
To order insert "A" after MI in the catalog number
(e.g., CW420MIA5W).



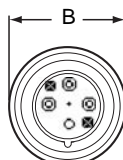
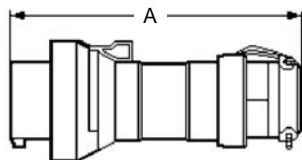
Pin & Sleeve Devices

Series 309 Watertight
Plugs and Receptacles

Dimensional Data

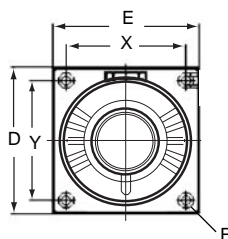
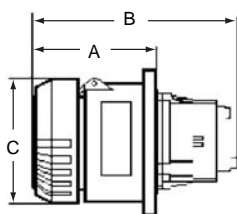
Plug Dimensions

Amps	A	B	3 Pole	Cord Range 4 Pole	5 Pole
20/16A	7.37" (187.2mm)	3.00" (76.2mm)	0.315"-0.748" (8.00-18.92mm)	0.315"-0.827" (8.00-18.92mm)	0.472"-0.827" (11.99-21.00mm)
30/32A	9.8" (248.92mm)	3.74" (94.99mm)	0.314"-0.827" (7.97-21.00mm)	0.472"-1.102" (11.99-27.99mm)	0.472"-1.102" (11.99-27.99mm)
60/63A	10.71" (272.03mm)	4.33" (109.98mm)	0.630"-1.378" (16.00-35.00mm)	0.630"-1.378" (16.00-35.00mm)	0.827"-1.378" (21.00-35.00mm)
100/125A	12.32" (312.93mm)	5.16" (131.06mm)	0.827"-1.89" (21.00-48.00mm)	0.827"-2.28" (21.00-57.91mm)	1.22"-2.28" (30.99-57.91mm)



Receptacle Dimensions

Amps	A	B	C	D	E	F Dia.	Mtg. Dims X Y	
20/16A	2.95" (74.93mm)	4.37" (110.10mm)	3.31" (84.07mm)	3.38" (85.85mm)	3.38" (85.85mm)	0.236" (5.99mm)	2.74" (69.60mm)	2.74" (69.60mm)
30/32A	3.35" (85.09mm)	4.92" (124.97mm)	3.74" (94.10mm)	3.38" (85.85mm)	3.38" (85.85mm)	0.236" (5.10mm)	2.74" (69.60mm)	2.74" (69.60mm)
60/63A	4.57" (116.08mm)	6.18" (156.98mm)	4.61" (117.09mm)	4.13" (104.90mm)	4.13" (104.90mm)	0.236" (5.99mm)	3.50" (88.90mm)	3.50" (88.90mm)
100/125A	4.81" (122.17mm)	6.56" (166.62mm)	4.80" (121.92mm)	5.12" (130.05mm)	5.32" (135.13mm)	0.250" (6.35mm)	4.09" (103.89mm)	4.09" (103.89mm)



INDUSTRIAL

G-5
PIN & SLEEVE
DEVICES

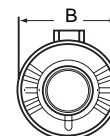
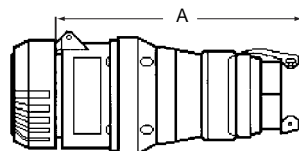
Pin & Sleeve Devices

Series 309 Watertight
Connectors and Interlocks

Dimensional Data

Connector Dimensions

Amps	A	B	3 Pole	Cord Range 4 Pole	5 Pole
20/16A	8.58" (217.93mm)	3.38" (85.85mm)	0.315"-0.748" (8.00-18.92mm)	0.315"-0.827" (8.00-21.00mm)	0.472"-0.827" (11.99-21.00mm)
30/32A	10.40" (264.16mm)	3.82" (97.03mm)	0.315"-0.827" (8.00-21.00mm)	0.472"-1.102" (11.99-27.99mm)	0.472"-1.102" (11.99-27.99mm)
60/63A	12.52" (318.00mm)	4.61" (117.09mm)	0.630"-1.378" (16.00-35.00mm)	0.630"-1.378" (16.00-35.00mm)	0.827"-1.378" (21.00-35.00mm)
100/125A	13.40" (340.36mm)	5.32" (135.13mm)	0.827"-1.89" (21.00-48.00mm)	0.827"-2.28" (21.00-57.91mm)	1.22"-2.28" (30.99-57.91mm)



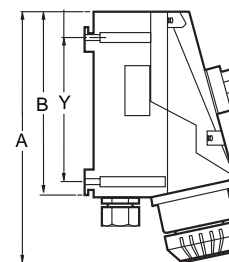
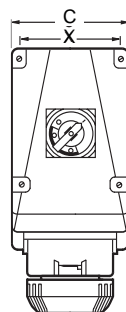
INDUSTRIAL

G-6
PIN & SLEEVE
DEVICES

Interlock Dimensions

Amps	A	B	C	Mtg. Dims X	Y	20/30/ 60/100A Hub	16/32/ 63/125A Cable Gland*
20/16A	9.30" (236.22mm)	6.90" (175.26mm)	4.30" (109.22mm)	3.90" (99.06mm)	5.30" (134.62mm)	0.75" (19.05mm)	M25
30/32A	11.20" (284.48mm)	8.07" (204.98mm)	4.70" (119.38mm)	4.30" (109.22mm)	6.70" (170.18mm)	1.00" (25.40mm)	M32
60/63A	18.70" (474.99mm)	12.30" (312.42mm)	7.90" (200.66mm)	7.10" (180.34mm)	10.90" (276.86mm)	1.25" (31.75mm)	M40
100/125A	21.10" (535.94mm)	13.30" (337.82mm)	8.90" (226.06mm)	8.10" (205.74mm)	11.90" (302.26mm)	1.50" (38.10mm)	M63

* Metric





Pin & Sleeve Devices

Series 309 Watertight Inlets

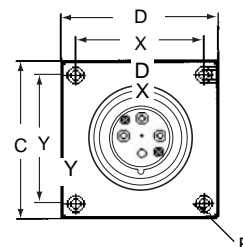
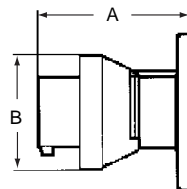
Dimensional Data

Inlet Dimensions

Amps	A	B	C	D	F Dia.	Mtg. Dims	
						X	Y
20/16A	3.27" (83.05mm)	3.02" (76.70mm)	3.38" (85.85mm)	3.38" (85.85mm)	0.236" (5.99mm)	2.74" (69.60mm)	2.74" (69.60mm)
30/32A	4.26" (108.20mm)	3.75" (95.25mm)	3.38" (85.85mm)	3.38" (85.85mm)	0.236" (5.99mm)	2.74" (69.60mm)	2.74" (69.60mm)
60/63A	5.44" (138.18mm)	4.34" (110.24mm)	4.13" (104.90mm)	4.13" (104.90mm)	0.236" (5.99mm)	3.50" (88.90mm)	3.50" (88.90mm)
100/125A	5.48" (139.19mm)	5.20" (132.08mm)	5.12" (130.05mm)	5.32" (135.13mm)	0.25" (6.35mm)	4.09" (103.89mm)	4.09" (103.89mm)

INDUSTRIAL

G-7
PIN & SLEEVE
DEVICES



Pin & Sleeve Devices

Series 309 Watertight Accessories

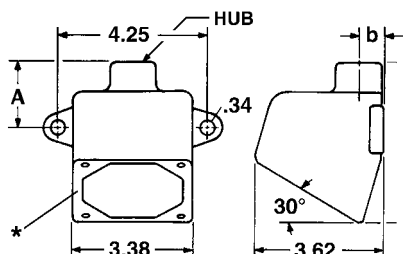


INDUSTRIAL

G-8
PIN & SLEEVE
DEVICES

Dimensional Data

Cast Aluminum Back Box 16, 20, 30 & 32A

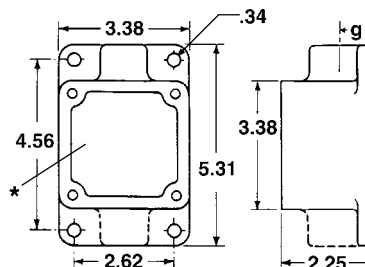


Inlets & Receptacles

Hub	A	B	Catalog No.
0.75" (19.05mm)	1.84" (46.74mm)	0.81" (20.57mm)	CWBB1

*Footprint: 2.74" x 2.74" (69.60 x 69.60mm)

Cast Aluminum Feed Through 16, 20, 30 & 32A

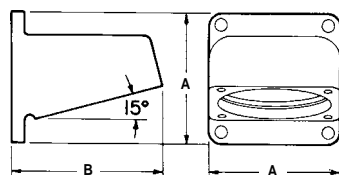


Inlets & Receptacles

Hub	Hub Config.	G	Catalog No.
1.00" (25.40mm)	Feed Thru	0.94" (23.88mm)	CWFTBB1

*Footprint: 2.74" x 2.74" (69.60 x 69.60mm)

Cast Aluminum Angle Adapter 20A & 30A

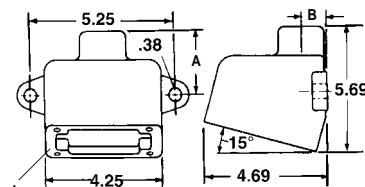


Inlets Only

A	B	Catalog No.
9.30" (236.22mm)	6.90" (175.26mm)	CWANG1

*Footprint: 2.74" x 2.74" (69.60 x 69.60mm)

Cast Aluminum Back Box 60A & 63A

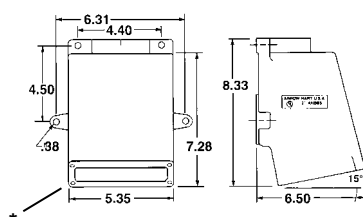


Inlets & Receptacles

Hub	A	B	Catalog No.
1.25" (31.75mm)	2.62" (66.55mm)	1.19" (30.23mm)	CWBB3

*Footprint: 3.50" x 3.50" (88.90 x 88.90mm)

Cast Aluminum Back Box 100A & 125A

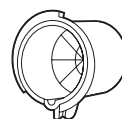


Inlets & Receptacles

Catalog No.
CWBB5

*Footprint: 4.09" x 4.09" (103.89 x 103.89mm)

Closure Caps



Amps		Catalog No.
20/16A	3 wire	CWCP320
	4 wire	CWCP420
	5 wire	CWCP520
30/32A	3 wire	CWCP3430
	4 wire	CWCP3430
	5 wire	CWCP530
60/63A	3 wire	CWCP60
	4 wire	CWCP60
	5 wire	CWCP60
100/125A	3 wire	CWCP100
	4 wire	CWCP100
	5 wire	CWCP100

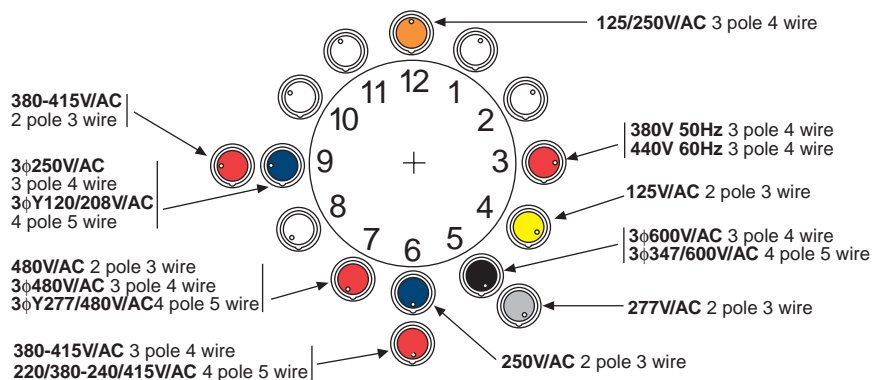


Pin & Sleeve Devices

Making a Connection Is Easy

A clock face is used to represent the grounding contact position for all female connectors and receptacles. With the keyway at the bottom, the female grounding contact will appear at one of

the twelve hour positions. To identify the system voltage, identify the housing color and hour location of the connector or receptacle grounding outlet.



Series 309 Products Are as Easy to Order as They Are to Use

We've made our catalog number ordering system as easy to use as our products! Simply follow the six-part "code":

Catalog Number Coding

CW Prefix	4 1st digit	20 2nd-4th digit	R 1st letter	7 Last digit	W Last letter
CW = Cooper Wiring	3 = 3 wire	16 = 16 Amp	P = Plug	Clock position of female grounding contact	W = Watertight
	4 = 4 wire	20 = 20 Amp	C = Connector		
	5 = 5 wire	30 = 30 Amp	R = Receptacle		
		32 = 32 Amp	B = Inlet		
		60 = 60 Amp	MI = Mechanical Interlock		
		63 = 63 Amp			
		100 = 100 Amp	MIF = Fused Mechanical Interlock		
		125 = 125 Amp			