North American Devices (20-100 Amp)
Accessories
Mechanical Interlocks
International Devices (16-125 Amps)
Dimensions

IEC 309 Pin & Sleeve Devices

Introduction

Ericson Manufacturing Company offers a comprehensive range of IEC309 Pin & Sleeve Devices that meet both IEC 309-1 and IEC 309-2 specifications along with UL 1682 and UL 1686 standards for safety.

- Fully interchangeable with other manufacturers who conform to these standards
- Watertight IP67 devices for wet locations
- Splash proof IP44 devices for light industrial environments
- Economy Splash proof IP44 devices that offer a lower cost alternative with many of the same features as our Standard IP44 devices
- Mechanical Interlocks available in both IP67 and IP44 constructions

Watertight IP67 Devices

- Locking ring and gasket provides positive mechanical lock between male and female devices to prevent intrusion of moisture, dirt and dust
- Shrouded and recessed pins are protected from physical damage
- Recessed contact sleeves protect from accidental encounter with live contacts
- Color-coded devices prevent confusion with voltage ratings
- External cable gland with "onion-ring" neoprene bushing assure watertight integrity

Splash proof IP44 Devices

- Shrouded and recessed pins are protected from physical damage
- Recessed contact sleeves protect from accidental encounter with live contacts
- Color-coded devices prevent confusion with voltage ratings
- External cable gland with "onion-ring" neoprene bushing assure watertight integrity

Economy Splash proof IP44 Devices

- Shrouded and recessed pins protected from physical damage
- Recessed contact sleeves protect from accidental encounter with live contacts
- Color-coded devices prevent confusion with voltage ratings
- Cable sleeve cord entry with molded-in markings to make it easy to identify the proper point to cut-off the boot to accommodate your cable diameter

Mechanical Interlocks

- A disconnect switch and receptacle are combined into a compact device
- Eliminates the making and breaking of plug and receptacle under load

Custom Built Assemblies

As always you can turn to Ericson Manufacturing Company to engineer a solution to your temporary power application if you do not find a standard catalog item to fit your need. Contact the factory or your local sales representative to find out more.

IEC 309 Pin & Sleeve Devices

Performance Ratings: North American Ratings

ELECTRICAL

Insulation Resistance	500V for 1 min. Resistance 5M
Dielectric Voltage Withstand	3000V for 1 min.
Ground Path Current	See Table 1
Endurance, Connect and Disconnect Cycles	See Table 2
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Overload Test (Power factor 0.75 - 0.80)	Tested for current interrupting at 150% of the rated current and 100% of the rated voltage for 50 cycles.
Temperature Rise	Maximum 30° C rise at full rated current (after overload).
Resistance to Arcing	Continuation of overload test for an additional 200 cycles.

MECHANICAL

Mold Stress Relief	70°C (158°F) for 7 hours.
Humidity	32°C (89.6°F), 93% humidity for 7 days (168 hours).
Cable Secureness	See Table 3
Impact	A device is wired with a 90" (2300mm) length of flexible cord and dropped from 30" (760mm) 8 times. The device is then conditioned for 6 hours at -25°C and immediately subjected to a repeated impact test.
Crushing	250 lbs for 1 minute. The device is then conditioned for 6 hours at -25°C and immediately subjected to a repeated crushing test.
Withdrawal Force	See Table 4
Strength of Insulating Base and Support	110% of specified tightening torque on terminal screws.
Polarization Integrity	Matching devices will not mate so that the ground is energized, even when polarization feature is removed and 40 lb (180 N) insertion force is applied.

ENVIRONMENTAL

Flammability	V-2 or better per UL 94 or CSA 22.2 No. 0.6
Ambient Temperature Range	Minimum: -25°C (-13°F) with impact Maximum: 90°C (194°F)
Resistance to Corrosion	Ferrous parts immersed for 10 min. in 10% solution of ammonium chloride at a temperature of 20°C.
Moisture Resistance	Watertight (IP67): Device immersed for 24 hours in water at a temp. of 25°C, the highest point of the device being 2" (5cm) below the water level. Splashproof (IP44): Device is sprayed with water for 10 minutes and immediately afterwards subjected to splashing water in all directions (360°).
UV Resistance	Exposed plastic materials are UV stabilized.

TABLE 1

Ground Path Current Test

Device Rating Amperes	Minimum Size Grounding Conductor AWG	Minimum Size Grounding Conductor mm^2	Time, Seconds	Test Current, Amperes
20	12	3.3	4	470
30	10	5.3	4	750
60	10	5.3	4	750
100	8	8.4	4	1180

A test current that far exceeds the device rating, is passed through the mating devices and grounding wires.

TABLE 2

Endurance Test

Device Rating Amperes	Cycles with Load at Rated Current and Voltage	No-Load Cycles	Sequence
20	5000	0	-
30	1000	1000	Alternating
60	1000	1000	Alternating
100	250	250	Alternating

The test sequence is conducted by using a no-load, followed by a load sequence. The power factor of the load is 0.75 to 0.80.

TABLE 3

Cable Secureness Test

Device Rating Amperes	Force lb.	Force N	Torque ft-lb.	Torque N•m	Maximum Displacement Inches	Maximum Displacement mm
20	30	133	0.4	0.54	3/32	2.38
30	75	333	0.5	0.68	3/32	2.38
60	150	667	1.0	1.4	3/32	2.38
100	150	667	2.0	2.7	3/32	2.38

The flexible cord or cable is simultaneously twisted and pulled. Values for the applied twisting torque and force of pull are shown in Table 3. In all cases the cord displacement is less than 3/32 inches.

TABLE 4

Withdrawal Forces Test

Device Rating Amperes	Minimum Withdrawal Force lb.	Minimum Withdrawal Force N	Time, Minutes
20	5	22	1
30	6	27	1
60	15	67	1
100	20	89	1

The pressure exerted by mating contacts of a plug and connector must be sufficient to prevent unintentional withdrawal during normal use. During the test, any locking rings or retaining means are not to be engaged.

These products are Listed to applicable UL Standards and requirements by Underwriters Laboratories Inc. UL 1682 and UL 1686.

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IEC 309 Pin & Sleeve Devices

Performance Ratings: North American Ratings

PLUG

Assembly Screws*	Steel, Electro Zinc Plated
Friction Ring*	Steel, Electro Zinc Plated
Gland Cap	Polycarbonate Blend
Grommet	Solid Neoprene
Housing (Front and Back)	Type 6 Nylon
Internal Cord Clamp	Type 6 Nylon
Locking Ring	Type 6 Nylon
Pins (Watertight)	Brass, NIckel plated
Pins (Splashproof)	Brass
Sealing Gasket	Neoprene
Terminal Screws	Steel, Nickel Plated

INLET

Housing	Type 6 Nylon
Locking Ring	Type 6 Nylon
Mounting Flange	Type 6 Nylon
Pins (Watertight)	Brass, NIckel plated
Pins (Splashproof)	Brass
Sealing Gasket	Neoprene
Terminal Screws	Steel, Nickel Plated

* Stainless steel available upon request

CONNECTOR

Assembly Screws*	Steel, Electro Zinc Plated
Cover	Type 6 Nylon
Cover Fastener	Nickel Plated Brass, or Macrolon
Friction Ring*	Steel, Electro Zinc Plated
Gland Cap	Polycarbonate Blend
Grommet	Solid Neoprene
Housing (Front and Back)	Type 6 Nylon
Internal Cord Clamp	Type 6 Nylon
Sealing Gasket	Neoprene
Sleeve Spring	Steel, Nickel Plated
Sleeves (Watertight)	Brass, Nickel Plated
Sleeves (Splashproof)	Brass
Terminal Screws	Steel, Nickel Plated

RECEPTACLE

Cover	Type 6 Nylon
Cover Fastener	Nickel Plated Brass, or Macrolon
Cover Spring	Stainless Steel (A2)
Housing	Type 6 Nylon
Mounting Flange	Type 6 Nylon
Sealing Gasket	Neoprene
Sleeve Spring	Steel, Nickel Plated
Sleeves (Watertight)	Brass, Nickel Plated
Sleeves (Splashproof)	Brass
Terminal Screws	Steel, Nickel Plated

Manufacturing pin & sleeve devices, of superior quality, can only be accomplished through the use of high grade materials. That is an important part of the Ericson Pin & Sleeve system - quality products you can depend on.

Male pins and female sleeves are made of high conductivity brass. Contacts used with watertight devices are nickel plated to prevent corrosion. The insulated housing is made from a high impact, nylon material. The non-metallic device, while resistant to most solvents, chemicals and salt water, is also nonconductive, which enhances the safety of the product.

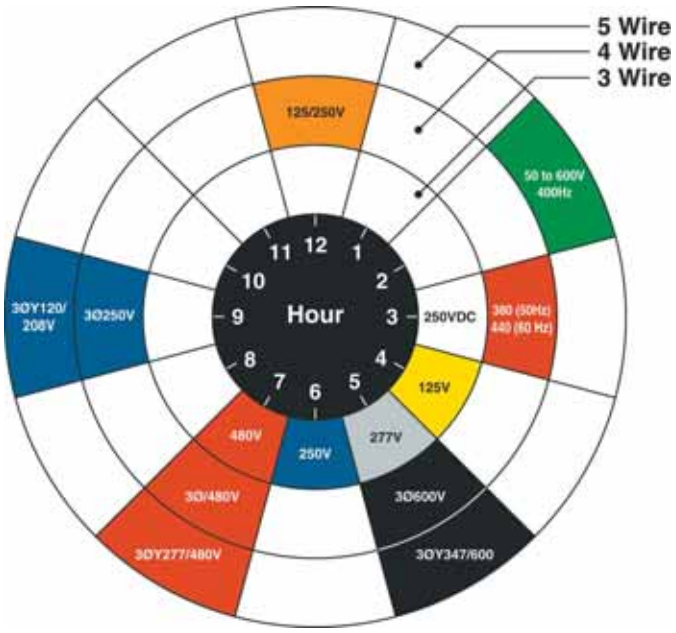
Application Guide

Industry	Application
Food Processing	Areas where washdowns are common and heavy abuse of connections occur.
Food Service	Indoor service where subject to water, chemicals and cleaning agents.
Outdoor Events & Temporary Power Setups	Concerts, Carnivals, Sporting Events, Street Fairs, Entertainment Districts where outdoor connections are required and subject to rain, snow, mud & critical loads mandate a secure connection such as lighting and sound systems.
Chemical Processing	Where subject to rough use, water/possible immersion & corrosion.
Construction Sites	Outdoors where subject to severe weather conditions, wet grounds.
Pulp/Paper Mills	Where subject to rough use, water/possible immersion & corrosion.
Marinas	Where subject to rough use, water/possible immersion & corrosion.
Plant Maintenance & Repair	Where subject to rough use, water/possible immersion & corrosion, dust, metal chips, coolants or exposed to vibration and rough handling.
Agriculture	Outdoor connections for electrically powered equipment such as fans, pumps and heaters.
Wastewater Treatment	Flood-prone areas, outdoor connections for electrically powered equipment.
Computer Installation/ Maintenance/Repair	Connections under raised floors subject to liquid exposure & for critical loads that require a secure connection.
Machine Build/Repair	To mate with or replace factory-wired devices on imported equipment. OEM assembly onto machinery built for export.

IEC 309 Pin & Sleeve Devices

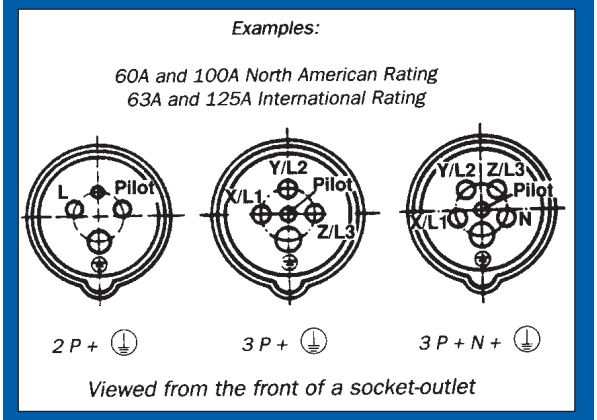
Voltage Ratings

CEEtyp Clockface Positions in Accordance with IEC 309-2 and UL 1686



North American Ratings
Voltage AC (Except where noted)

ELECTRICAL INTERLOCK



Plugs and receptacles rated 60 amps and above, feature an "electrical interlock" by way of a pilot pin on the plug and female sleeve on the receptacle that is shorter than the main pins. The pilot pin and female sleeve make the contact last; and break the contact first. This sequence turns the power on when the pilot pin and sleeve mate, and turns the power off before the phase contacts are disengaged. This prevents making or breaking the circuit under load.

Catalog Numbering System: Receptacles, Plugs, Connectors, and Inlets

4	30	P	7	W
Wires	**Amperage Rating North American/ International**	**Device Type**	**Clock Position**	**Environmental Classification**
3 4 5 7	20 30 60 100	P - Plug C - Connector R - Receptacle RA - Receptacle Angled B - Inlet BA - Inlet Angled MI - Mechanical Interlock	Clock position of Female Grounding Contact	W - Watertight S - Splashproof E - Economy Splashproof

International Configuration Devices available with ratings of 16A, 32A, 63A and 125 Amps; Consult factory for additional information.

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IEC 309 Pin & Sleeve Devices

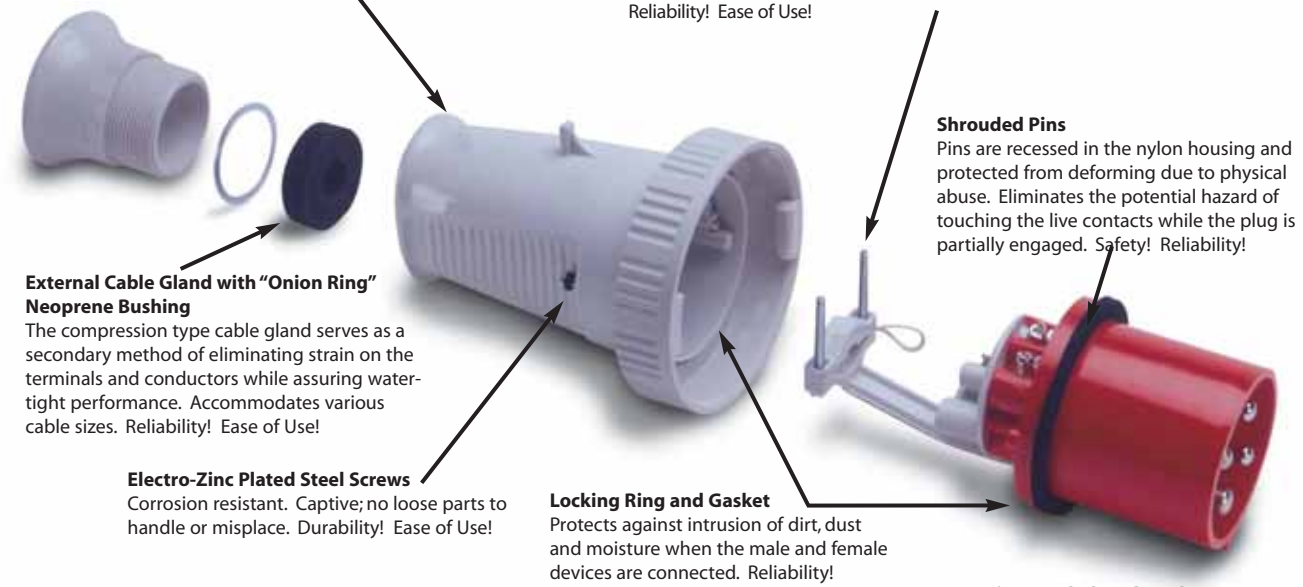
IP 67

Watertight Devices

Retaining Device
Holds the plug in position when it is in proper engagement with a connector or socket-outlet and prevents its unintentional withdrawal.

Internal Strain Relief with "Swing-Away" Feature
Designed to firmly grip not only the outer cable jacket but also the internal conductors. Eliminates strain on the terminals while providing high pull-out values. "Swing-Away" feature provides easy access to terminal screws. Reliability! Ease of Use!

Shrouded Pins
Pins are recessed in the nylon housing and protected from deforming due to physical abuse. Eliminates the potential hazard of touching the live contacts while the plug is partially engaged. Safety! Reliability!



External Cable Gland with "Onion Ring" Neoprene Bushing
The compression type cable gland serves as a secondary method of eliminating strain on the terminals and conductors while assuring watertight performance. Accommodates various cable sizes. Reliability! Ease of Use!

Electro-Zinc Plated Steel Screws
Corrosion resistant. Captive; no loose parts to handle or misplace. Durability! Ease of Use!

Locking Ring and Gasket
Protects against intrusion of dirt, dust and moisture when the male and female devices are connected. Reliability!

Spring Loaded Gasketed Covers
Protects against accidental encounter with live contacts. Also, protects against intrusion of dirt, dust and moisture. A bayonet coupling device is used to provide optimum stability and simplify installation. Reliability! Safety!

Terminal Identification
Ground, neutral and phase terminals are clearly identified for easy recognition and ease of wiring.

Color Coded
Avoid mismatching. Prevents confusion with regards to voltage ratings. Safety! Ease of Use!

High Impact Thermoplastic Housing
The non-metallic device, while abuse and corrosion resistant, is also nonconductive, which enhances the safety of the product. The insulated housing is made from a high impact, nylon material and is UV stabilized. Safety! Durability!

Staggered Contacts
Oversized ground contact is farthest forward, assuring first make and last break. Neutral is next to prevent the possibility of an "open neutral" condition. Phase contact is farthest making it last to make, first to break. Safety!

Recessed Contacts
Contact sleeves are recessed in the narrow contact tubes thus, providing a "finger proof" device and protecting against any accidental encounter with live contacts. Safety!

Retaining Device
Pin & Sleeve devices are provided with a mechanical arrangement which holds a plug or connector in position when it is in proper engagement, and prevents its unintentional withdrawal.

Double Terminal Screws
Maximum clamping pressure without damaging strands. Double terminal screws create a large area of safe and secure contact between conductor and terminal. Screws are captive, easily accessible and supplied in the open position.

Solid Brass Pins
Low contact resistance and high conductivity. Long lasting, reliable electrical contact. Reliability!

Chamfered Terminals
Funnel Entry. Guides and captures all wire strands.

Split Contact Sleeve with Nickel Plated Steel Springs
Provides optimum insertion/withdrawal force and constant contact pressure. Reliability!

IEC 309 Pin & Sleeve Devices

20 & 30 Amp Watertight Pin & Sleeve Devices

IP 67

20 and 30 Amp Watertight Pin & Sleeve Devices

				Receptacles		Plugs	Connectors	Inlets		
										
Amps	Poles & Wires	Configuration Recep./ Conn. Plug/ Inlet	Voltage	Straight	Angled			Angled	Back Box[1&2]	
20	2P3W		250VDC	320R3W	320RA3W	320P3W	320C3W	320BA3W		
	2P3W		125	320R4W	320RA4W	320P4W	320C4W	320BA4W		
	2P3W		250	320R6W	320RA6W	320P6W	320C6W	320BA6W		
	2P3W		480	320R7W	320RA7W	320P7W	320C7W	320BA7W		
	2P3W		277	320R5W	320RA5W	320P5W	320C5W	320BA5W		
	3P4W		125/250	420R12W	420RA12W	420P12W	420C12W	420BA12W	BB201W	BB301W
	3P4W		3Ø250	420R9W	420RA9W	420P9W	420C9W	420BA9W	BB201W	BB301W
	3P4W		3Ø480	420R7W	420RA7W	420P7W	420C7W	420BA7W	BB201W	BB301W
	3P4W		3Ø600	420R5W	420RA5W	420P5W	420C5W	420BA5W	BB201W	BB301W
	4P5W		3ØY120/208	520R9W	520RA9W	520P9W	520C9W	520BA9W	BB201W	BB301W
	4P5W		3ØY277/480	520R7W	520RA7W	520P7W	520C7W	520BA7W	BB201W	BB301W
	4P5W		3ØY347/600	520R5W	520RA5W	520P5W	520C5W	520BA5W	BB201W	BB301W
30	2P3W		250VDC	330R3W	330RA3W	330P3W	330C3W	330BA3W	BB201W	BB301W
	2P3W		125	330R4W	330RA4W	330P4W	330C4W	330BA4W	BB201W	BB301W
	2P3W		250	330R6W	330RA6W	330P6W	330C6W	330BA6W	BB201W	BB301W
	2P3W		480	330R7W	330RA7W	330P7W	330C7W	330BA7W	BB201W	BB301W
	2P3W		277	330R5W	330RA5W	330P5W	330C5W	330BA5W	BB201W	BB301W
	3P4W		125/250	430R12W	430RA12W	430P12W	430C12W	430BA12W	BB201W	BB301W
	3P4W		3Ø250	430R9W	430RA9W	430P9W	430C9W	430BA9W	BB201W	BB301W
	3P4W		3Ø480	430R7W	430RA7W	430P7W	430C7W	430BA7W	BB201W	BB301W
	3P4W		3Ø600	430R5W	430RA5W	430P5W	430C5W	430BA5W	BB201W	BB301W
	4P5W		50-600 400Hz	530R2W	530RA2W	530P2W	530C2W	530BA2W	BB201W	BB301W
	4P5W		3ØY120/208	530R9W	530RA9W	530P9W	530C9W	530BA9W	BB201W	BB301W
	4P5W		3ØY277/480	530R7W	530RA7W	530P7W	530C7W	530BA7W	BB201W	BB301W
	4P5W		3ØY347/600	530R5W	530RA5W	530P5W	530C5W	530BA5W	BB201W	BB301W

1. Back Box for use with Receptacles only. Select Back Box with Hub Size to fit your application refer to the back boxes & closure caps page in this section.
2. Can not use angled inlets with back box.

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IP 67

60 and 100 Amp Watertight Pin & Sleeve Devices

				Receptacles		Plugs	Connectors	Inlets			
											
Amps	**Poles & Wires**	**Configuration Recep./ Conn.**	**Plug/ Inlet**	**Voltage**	**Straight**	**Angled**			**Straight**	**Angled**	**Back Box[1&2]**	
60	2P3W			**250VDC**	360R3W	360RA3W	360P3W	360C3W		360BA3W	BB601W	BB602W
	2P3W			**125**	360R4W	360RA4W	360P4W	360C4W		360BA4W	BB601W	BB602W
	2P3W			**250**	360R6W	360RA6W	360P6W	360C6W		360BA6W	BB601W	BB602W
	2P3W			**480**	360R7W	360RA7W	360P7W	360C7W		360BA7W	BB601W	BB602W
	2P3W			**277**	360R5W	360RA5W	360P5W	360C5W		360BA5W	BB601W	BB602W
	3P4W			**125/250**	460R12W	460RA12W	460P12W	460C12W		460BA12W	BB601W	BB602W
	3P4W			**3Ø250**	460R9W	460RA9W	460P9W	460C9W		460BA9W	BB601W	BB602W
	3P4W			**3Ø480**	460R7W	460RA7W	460P7W	460C7W		460BA7W	BB601W	BB602W
	3P4W			**3Ø600**	460R5W	460RA5W	460P5W	460C5W		460BA5W	BB601W	BB602W
	4P5W			**3ØY120/208**	560R9W	560RA9W	560P9W	560C9W		560BA9W	BB601W	BB602W
	4P5W			**3ØY277/480**	560R7W	560RA7W	560P7W	560C7W		560BA7W	BB601W	BB602W
	4P5W			**3ØY347/600**	560R5W	560RA5W	560P5W	560C5W		560BA5W	BB601W	BB602W
100	2P3W			**250VDC**	3100R3W	3100RA3W	3100P3W	3100C3W	3100B3W		BB1001W	BB1002W
	2P3W			**125**	3100R4W	3100RA4W	3100P4W	3100C4W	3100B4W		BB1001W	BB1002W
	2P3W			**250**	3100R6W	3100RA6W	3100P6W	3100C6W	3100B6W		BB1001W	BB1002W
	2P3W			**480**	3100R7W	3100RA7W	3100P7W	3100C7W	3100B7W		BB1001W	BB1002W
	2P3W			**277**	3100R5W	3100RA5W	3100P5W	3100C5W	3100B5W		BB1001W	BB1002W
	3P4W			**125/250**	4100R12W	4100RA12W	4100P12W	4100C12W	4100B12W		BB1001W	BB1002W
	3P4W			**3Ø250**	4100R9W	4100RA9W	4100P9W	4100C9W	4100B9W		BB1001W	BB1002W
	3P4W			**3Ø480**	4100R7W	4100RA7W	4100P7W	4100C7W	4100B7W		BB1001W	BB1002W
	3P4W			**3Ø600**	4100R5W	4100RA5W	4100P5W	4100C5W	4100B5W		BB1001W	BB1002W
	4P5W			**3ØY120/208**	5100R9W	5100RA9W	5100P9W	5100C9W	5100B9W		BB1001W	BB1002W
	4P5W			**3ØY277/480**	5100R7W	5100RA7W	5100P7W	5100C7W	5100B7W		BB1001W	BB1002W
	4P5W			**3ØY347/600**	5100R5W	5100RA5W	5100P5W	5100C5W	5100B5W		BB1001W	BB1002W

1. Back Box for use with Receptacles only. Select Back Box with Hub Size to fit your application refer to the back boxes & closure caps page in this section.
2. Can not use angled inlets with back box.

IEC 309 Pin & Sleeve Devices

IP 44 20, 30 and 60 Amp Splashproof Pin & Sleeve Devices with Cable Gland

IP 44 20, 30 and 60 Amp *Splashproof* Pin & Sleeve Devices with Cable Gland






Amps	Poles & Wires	Configuration Recep./ Conn. Plug/ Inlet	Voltage	Receptacles Straight	Receptacles Angled	Plugs	Connectors	Inlets Straight	Inlets Angled	Back Box[1 & 2]	
20	2P3W		250VDC	320R3S	320RA3S	320P3S	320C3S	320B3S			
	2P3W		125	320R4S	320RA4S	320P4S	320C4S	320B4S			
	2P3W		250	320R6S	320RA6S	320P6S	320C6S	320B6S			
	2P3W		480	320R7S	320RA7S	320P7S	320C7S	320B7S			
	2P3W		277	320R5S	320RA5S	320P5S	320C5S	320B5S			
	3P4W		125/250	420R12S	420RA12S	420P12S	420C12S	420B12S		BB201W	BB301W
	3P4W		3Ø250	420R9S	420RA9S	420P9S	420C9S	420B9S		BB201W	BB301W
	3P4W		3Ø480	420R7S	420RA7S	420P7S	420C7S	420B7S		BB201W	BB301W
	3P4W		3Ø600	420R5S	420RA5S	420P5S	420C5S	420B5S		BB201W	BB301W
	4P5W		3ØY120/208	520R9S	520RA9S	520P9S	520C9S	520B9S		BB201W	BB301W
	4P5W		3ØY277/480	520R7S	520RA7S	520P7S	520C7S	520B7S		BB201W	BB301W
	4P5W		3ØY347/600	520R5S	520RA5S	520P5S	520C5S	520B5S		BB201W	BB301W
	6P7W		250	720R9S		720P9S	720C9S	720B9S		BB201W	BB301W
	6P7W		480	720R7S		720P7S	720C7S	720B7S		BB201W	BB301W
30	2P3W		250VDC	330R3S	330RA3S	330P3S	330C3S	330B3S		BB201W	BB301W
	2P3W		125	330R4S	330RA4S	330P4S	330C4S	330B4S		BB201W	BB301W
	2P3W		250	330R6S	330RA6S	330P6S	330C6S	330B6S		BB201W	BB301W
	2P3W		480	330R7S	330RA7S	330P7S	330C7S	330B7S		BB201W	BB301W
	2P3W		277	330R5S	330RA5S	330P5S	330C5S	330B5S		BB201W	BB301W
	3P4W		125/250	430R12S	430RA12S	430P12S	430C12S	430B12S		BB201W	BB301W
	3P4W		3Ø250	430R9S	430RA9S	430P9S	430C9S	430B9S		BB201W	BB301W
	3P4W		3Ø480	430R7S	430RA7S	430P7S	430C7S	430B7S		BB201W	BB301W
	3P4W		3Ø600	430R5S	430RA5S	430P5S	430C5S	430B5S		BB201W	BB301W
	4P5W		50-600 400Hz	530R2S	530RA2S	530P2S	530C2S	530B2S		BB201W	BB301W
	4P5W		3ØY120/208	530R9S	530RA9S	530P9S	530C9S	530B9S		BB201W	BB301W
	4P5W		3ØY277/480	530R7S	530RA7S	530P7S	530C7S	530B7S		BB201W	BB301W
	4P5W		3ØY347/600	530R5S	530RA5S	530P5S	530C5S	530B5S		BB201W	BB301W
	6P7W		250	730R9S		730P9S	730C9S	730B9S		BB201W	BB301W
	6P7W		480	730R7S		730P7S	730C7S	730B7S		BB201W	BB301W
60	2P3W		250VDC	360R3S	360RA3S	360P3S	360C3S		360BA3S	BB601W	BB601W
	2P3W		125	360R4S	360RA4S	360P4S	360C4S		360BA4S	BB601W	BB601W
	2P3W		250	360R6S	360RA6S	360P6S	360C6S		360BA6S	BB601W	BB601W
	2P3W		480	360R7S	360RA7S	360P7S	360C7S		360BA7S	BB601W	BB601W
	2P3W		277	360R5S	360RA5S	360P5S	360C5S		360BA5S	BB601W	BB601W
	3P4W		125/250	460R12S	460RA12S	460P12S	460C12S		460BA12S	BB601W	BB601W
	3P4W		3Ø250	460R9S	460RA9S	460P9S	460C9S		460BA9S	BB601W	BB601W
	3P4W		3Ø480	460R7S	460RA7S	460P7S	460C7S		460BA7S	BB601W	BB601W
	3P4W		3Ø600	460R5S	460RA5S	460P5S	460C5S		460BA5S	BB601W	BB601W
	4P5W		50-600 400Hz	560R2S	560RA2S	560P2S	560C2S		560BA2S	BB601W	BB601W
	4P5W		3ØY120/208	560R9S	560RA9S	560P9S	560C9S		560BA9S	BB601W	BB601W
	4P5W		3ØY277/480	560R7S	560RA7S	560P7S	560C7S		560BA7S	BB601W	BB601W
	4P5W		3ØY347/600	560R5S	560RA5S	560P5S	560C5S		560BA5S	BB601W	BB601W

1. Back Box for use with Receptacles only. Select Back Box with Hub Size to fit your application refer to the back boxes & closure caps page in this section.
2. Can not use angled inlets with back box.

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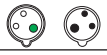
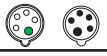
IP 44

Economy Splashproof Pin & Sleeve Devices with Cable Sleeve

Splashproof (IP44) Economy Devices have been designed for applications that don't require an IP67 rated device, but desire many of the same features. These products feature a cable sleeve cord entry that seals out moisture and contaminants while accomodating a wide range of cable sizes. Molded-in markings make it easy to identify the proper point to cut off the boot to accommodate your cable diameter.

Other Features Include:

- Retaining Device
- Internal Strain Relief with "Swing-Away" Feature
- Shrouded Pins
- Electro Zinc Plated Steel Screws
- Spring Loaded Gasketed Covers
- Color Coded
- Terminal Identification
- High Impact Thermoplastic Housing
- Staggered Contacts
- Recessed Contacts

Poles & Wires	Configuration Recep./ Conn. Plug/ Inlet	Voltage	20 Amp Devices		30 Amp Devices		60 Amp Devices	
								
			Plugs	Connectors	Plugs	Connectors	Plugs	Connectors
2P3W		250VDC	320P3E	320C3E	330P3E	330C3E	360P3E	360C3E
2P3W		125	320P4E	320C4E	330P4E	330C4E	360P4E	360C4E
2P3W		250	320P6E	320C6E	330P6E	330C6E	360P6E	360C6E
2P3W		480	320P7E	320C7E	330P7E	330C7E	360P7E	360C7E
2P3W		277	320P5E	320C5E	330P5E	330C5E	360P5E	360C5E
3P4W		125/250	420P12E	420C12E	430P12E	430C12E	460P12E	460C12E
3P4W		3Ø250	420P9E	420C9E	430P9E	430C9E	460P9E	460C9E
3P4W		3Ø480	420P7E	420C7E	430P7E	430C7E	460P7E	460C7E
3P4W		3Ø600	420P5E	420C5E	430P5E	430C5E	460P5E	460C5E
4P5W		3ØY120/208	520P9E	520C9E	530P9E	530C9E	560P9E	560C9E
4P5W		3ØY277/480	520P7E	520C7E	530P7E	530C7E	560P7E	560C7E
4P5W		3ØY347/600	520P5E	520C5E	530P5E	530C5E	560P5E	560C5E
6P7W		250	720P9E	720C9E	730P9E	730C9E		
6P7W		480	720P7E	720C7E	730P7E	730C7E		

IEC 309 Pin & Sleeve Devices

Mechanical Interlocks

Ericson Mechanical Interlocks combine a disconnect switch and receptacle into one device that eliminates the making and breaking of plug and receptacle under load. The safety mechanism within the enclosure prevents the switch from being turned to the "ON" position until the plug is fully inserted into the receptacle. Once fully engaged, the plug is locked into place when the switch is turned on and cannot be removed until the switch is turned to the"OFF" position. This prevents making or breaking the circuit under load. Ericson mechanical interlocks are also available with optional circuit breaker (see inset photo).

Mounting screw ports
located outside enclosure gasket to insure integrity of seal.

Easy Identification
Catalog number, rating and certifications are indicated on the label for easy identification of mating devices.

Variety - 20A, 30A, 60A & 100A ratings in watertight (IP67) and Splashproof (IP44) ratings.

Watertight NEMA 4X, 12K Enclosure
Ericson's Mechanical Interlocks are gasketed and rated as a Watertight NEMA 4X, 12K enclosure. The nonmetallic enclosure, while abuse and corrosion resistant, is also non-conductive which enhances the safety of the product.

Compact Size
All versions and sizes are designed to fit within the web of an 8" column. This compact size allows the use of columns as a mounting location.

On/Off markings
Clearly visible On/Off markings indicate power status.

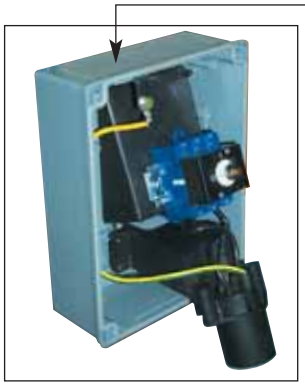
Compliance with OSHA Lockout Requirements
Ericson's Mechanical Interlock's bright red handle can be locked in the "OFF" position as a method of compliance with OSHA lockout requirements. The handle can accept up to a 5/16" padlock shaft.

Color Coded Receptacle Covers
Receptacle covers are color-coded by voltage in accordance with IEC 309 standard.

Interchangeability
completely interchangeable with other manufacturers' IEC 309-1 and IEC 309-2 devices.

460MI7W-LB Shown

Available with optional circuit breaker in 20, 30, 60, and 100 Amp models.



A Pre-Molded Offset Dimple
A pre-molded offset dimple (drill point) is provided instead of a conduit entry hole. This allows the installer to choose the size of the conduit to be used, and the location where the conduit will be attached to the enclosure (top, bottom or side entry) without the use of knockout plugs and reducers. Arranging the conduit entry hole at the dimple location will prevent condensation from falling directly on the interior electrical components, such as the switch. It will also allow for more room to pull conductors when wiring.

Swivel Mount Feet (135°)
Swivel mount feet can be used for installations where irregular or tight fit applications exist.

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Specifications & Listings

Electrical

Dielectric Voltage Withstand	3,000 Volts
Maximum Working Voltage	600 Volts RMS (switch version) 480 Volts RMS (circuit breaker version)
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle.
Operations	Mechanical: 10,000 cycles Electrical: 6,000 cycles

Mechanical

Impact Resistance	In accordance with UL 746C
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification, ratings and color code in accordance with UL, CSA and IEC requirements.
Lockout/Tagout	"ON" and "OFF" lockout/tagout capability at switch handle. Complies with OSHA Reg. 29CFR 1910.147
Mounting	External adjustable feet.

Environmental

Moisture Resistance	Watertight IP67 (Washdown) - UL Type 4X Splashproof IP44
Flammability	UL94-5VA & V0 Classifications
Operating Temperatures	Maximum Continuous: 60°C (140°F) Minimum Continuous: -40°C (-40°F)
UV Resistance	UV stabilized material
Chemicals	Resists most standard industrial hydrocarbons, acids, bases and solvents.

Materials

Enclosure (all exterior components)	UL94-5VA/V0, UV stabilized, impact modified Valox®.
Contact Carrier	Molded arc resistant UL94-V0 thermoplastic
Gaskets	Neoprene or EPDM
Contacts (Watertight IP67)	Brass, Nickel Plated
Contacts (Splashproof (IP44)	Brass
Hardware (screws & springs)	Steel with zinc-plated blue chromate or nickel plating .

Approvals & Compliances

UL 508 (switch version) Motor Disconnect
UL 508 (compact version) Manual Motor Controller
UL 231 & UL 489 (circuit breaker version)
UL1682 & 1686
CSA C22.2 No. 14, 182.1
IEC 309-1 & IEC 309-2

IEC 309 Pin & Sleeve Devices

Mechanical Interlocks - IP67 Watertight

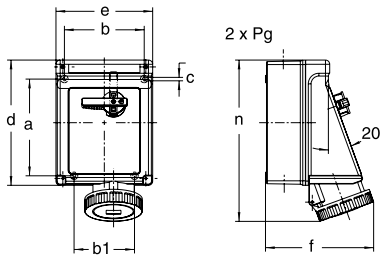
Selection Guide - IP67 Mechanical Interlocks without circuit breakers

Poles & Wires	Configuration Recept Conn.	Configuration Plug Inlet	Voltage	Horsepower Rating 20A & 30A Only	20 Amps	30 Amps	60 Amps	100 Amps	Horsepower Rating 60A & 100A Only
2P3W			120	2	320MI4W-L	330MI4W-L	360MI4W-L	3100MI4W-L	3
2P3W			240	5	320MI6W-L	330MI6W-L	360MI6W-L	3100MI6W-L	7.5
2P3W			480	10	320MI7W-L	330MI7W-L	360MI7W-L	3100MI7W-L	15
3P4W			120/240	2 @ 120 5 @ 240	420MI12W-L	430MI12W-L	460MI12W-L	4100MI12W-L	3 @ 120 7.5 @ 240
3P4W			3Ø 240	10	420MI9W-L	430MI9W-L	460MI9W-L	4100MI9W-L	15
3P4W			3Ø 480	20	420MI7W-L	430MI7W-L	460MI7W-L	4100MI7W-L	25
3P4W			3Ø 600	25	420MI5W-L	430MI5W-L	460MI5W-L	4100MI5W-L	30
4P5W			3Ø Y 120/208	10	520MI9W-L	530MI9W-L	560MI9W-L	5100MI9W-L	15
4P5W			3Ø Y 277/480	20	520MI7W-L	530MI7W-L	560MI7W-L	5100MI7W-L	25
4P5W			3Ø Y 347/600	25	520MI5W-L	530MI5W-L	560MI5W-L	5100MI5W-L	30

Notes:
1. Also available in IP44 splashproof models - contact factory for availability
2. Also available with circuit breakers - contact factory for availability

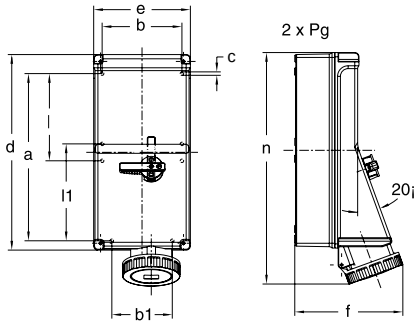
Call Toll-Free 1-800-ERICSON (374-2766)

20A, 30A & 60A IP67 Watertight Models:



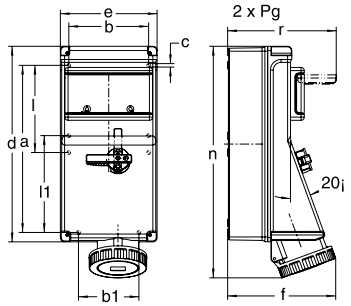
Amps N.A.	Amps Int'l	Poles and Wires		Dimensions a	b	b1	c	d	e	NEMA 4X IP44 f	NEMA 4X IP67 f	NEMA 4X IP44 n	NEMA 4X IP67 n
20	16	2P3W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.17	7.60	10.55	10.63
			mm	183	151	114	6.5	237	183	182	193	268	270
20	16	3P4W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.36	7.64	10.63	10.71
			mm	183	151	114	6.5	237	183	187	194	270	272
20	16	4P5W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.24	7.72	10.75	10.91
			mm	183	151	114	6.5	237	183	184	196	273	277
30	32	2P3W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.36	7.91	11.10	11.22
			mm	183	151	114	6.5	237	183	187	201	282	285
30	32	3P4W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.36	7.91	11.10	11.22
			mm	183	151	114	6.5	237	183	187	201	282	285
30	32	4P5W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.44	7.91	11.18	11.38
			mm	183	151	114	6.5	237	183	189	201	284	289
60	63	2P3W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.72	8.23	11.89	12.17
			mm	183	151	114	6.5	237	183	196	209	302	309
60	63	3P4W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.72	8.23	11.89	12.17
			mm	183	151	114	6.5	237	183	196	209	302	309
60	63	4P5W	inch	7.20	5.94	4.49	0.26	9.33	7.20	7.72	8.23	11.89	12.17
			mm	183	151	114	6.5	237	183	196	209	302	309

100A IP67 Watertight Models:



Amps N.A.	Amps Int'l	Poles and Wires		Dimensions a	b	b1	c	d	e	NEMA 4X IP44 f	NEMA 4X IP67 f	NEMA 4X IP44 l	NEMA 4X IP67 l1	n	n
100	125	2P3W	inch	12.44	5.94	4.96	0.26	14.57	7.20		9.57				17.72
			mm	316	151	126	6.5	370	183		243				450
100	125	3P4W	inch	12.44	5.94	4.96	0.26	14.57	7.20		9.57				17.72
			mm	316	151	126	6.5	370	183		243				450
100	125	4P5W	inch	12.44	5.94	4.96	0.26	14.57	7.20		9.57				17.72
			mm	316	151	126	6.5	370	183		243				450

20A, 30A, 60A IP67 Watertight Models with Circuit Breakers:



Amps N.A.	Amps Int'l	Poles and Wires		Dimensions a	b	b1	c	d	e	NEMA 4X IP44 f	NEMA 4X IP67 f	NEMA 4X IP44 l	NEMA 4X IP67 l1	n	n	r
20	16	2P3W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.17	7.60	6.50	7.20	15.79	15.91	8.11
			mm	316	151	114	6.5	370	183	182	193	165	183	401	404	206
20	16	3P4W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.36	7.64	6.50	7.20	15.91	15.94	8.11
			mm	316	151	114	6.5	370	183	187	194	165	183	404	405	206
20	16	4P5W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.24	7.72	6.50	7.20	15.94	16.14	8.11
			mm	316	151	114	6.5	370	183	184	196	165	183	405	410	206
30	32	2P3W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.36	7.91	6.50	7.20	16.34	16.46	8.11
			mm	316	151	114	6.5	370	183	187	201	165	183	415	418	206
30	32	3P4W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.36	7.91	6.50	7.20	16.34	16.46	8.11
			mm	316	151	114	6.5	370	183	187	201	165	183	415	418	206
30	32	4P5W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.44	7.91	6.50	7.20	16.42	16.46	8.11
			mm	316	151	114	6.5	370	183	189	201	165	183	417	418	206
60	63	2P3W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.72	8.23	6.50	7.20	17.01	17.44	8.11
			mm	316	151	114	6.5	370	183	196	209	165	183	432	443	206
60	63	3P4W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.72	8.23	6.50	7.20	17.01	17.44	8.11
			mm	316	151	114	6.5	370	183	196	209	165	183	432	443	206
60	63	4P5W	inch	12.44	5.94	4.49	0.26	14.57	7.20	7.72	8.23	6.50	7.20	17.01	17.44	8.11
			mm	316	151	114	6.5	370	183	196	209	165	183	432	443	206

IEC 309 Pin & Sleeve Devices

Back Boxes & Closure Caps

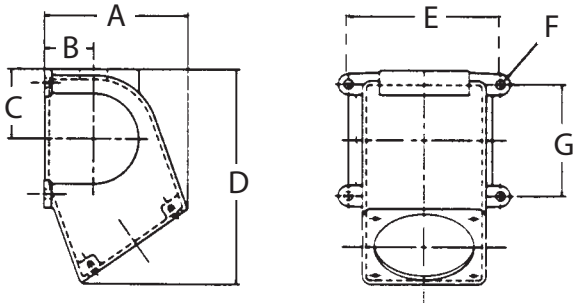
Back Boxes for use with Ericson watertight and splashproof receptacles

Cat. No.	Description	Hub Size	Dimensions (Inches)							Cubic Inch Capacity
			A	B	C	D	E	F	G	
BB201W	20° Angle for 20A, 4 and 5 wire receps. and all 30A receps.	¾"	3.34	0.97	1.12	4.12	4.00	0.25	2.38	20.4
BB301W		1"								
BB601W	20° Angle for all 60A receptacles	1¼"	4.41	1.41	2.09	5.63	5.00	0.28	3.00	59.7
BB602W		1½"								
BB1001W	20° Angle for all 100A receptacles	1½"	5.18	1.78	2.50	7.71	5.50	0.34	4.00	96.6
BB1002W		2"								

NOTE: For availability of straight back boxes, please contact the factory.

Cast Aluminum Junction Boxes for Watertight and Splashproof Receptacles

Epoxy-coated junction boxes are corrosion resistant and designed to pass the 500-hour salt spray test, UL hosedown and external icing test.



Watertight Closure Caps for use with watertight male plugs and inlets

Cat. No.	Poles and Wires	Amperage Rating	Standard Pkg. Quantity
PC320	3 Wire	20	5
PC3430		30	5
PC60		60	2
PC100		100	2
PC420	4 Wire	20	5
PC3430		30	5
PC60		60	2
PC100		100	2
PC520	5 Wire	20	5
PC530		30	5
PC60		60	2
PC100		100	2

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IEC 309 Pin & Sleeve Devices

Performance Specifications - International Ratings

ELECTRICAL

Insulation Resistance Per IEC 309-1, Clause 19	500V for 1 min. Resistance 5 M
Dielectric Strength Per IEC 309-1, Clause 19	3000V for 1 min.
Norm. Operation, Connect & Disconnect Cycles Per IEC 309-1, Clause 21	See Table 1
Breaking Capacity Per IEC 309-1, Clause 20	Tested at 110 % of the rated operating voltage and 125% of the rated current.
Temperature Rise Per IEC 309-1, Clause 22	Maximum 50 K rise at full rated current.

MECHANICAL

Cable Secureness Per IEC 309, Clause 23	See Table 2
Impact Per IEC 309, Clause 24	A device is wired with a 2.25m length of flexible cord and dropped from a height of 75 cm, 8 times. The device is then tested for applicable degrees of protection against moisture.

ENVIRONMENTAL

Flammability	Self-extinguishing Per IEC 309-1, Clause 27
Ambient Temperature Range	Minimum: -25°C with impact Maximum: 90°C
Moisture Resistance	Watertight (IP67): Device immersed for 24 hours in water at a temp. of 25°C, the highest point of the device being 5cm (2") below the water level. Splashproof (IP44): Device is sprayed with water for 10 minutes and immediately afterwards subjected to splashing water in all directions (360°).
UV Resistance	Exposed plastic materials are UV stabilized.

TABLE 1

Connect and Disconnect Cycles			
Device Rating Amperes	Cycles with Load at Rated Current and Voltage	No-Load Cycles	Sequence
16	5000 p.f of 0.6	0	-
32	1000 p.f of 0.6	1000	Alternating
63	1000 p.f of 0.6	1000	Alternating
125	250 p.f of 0.7	250	Alternating

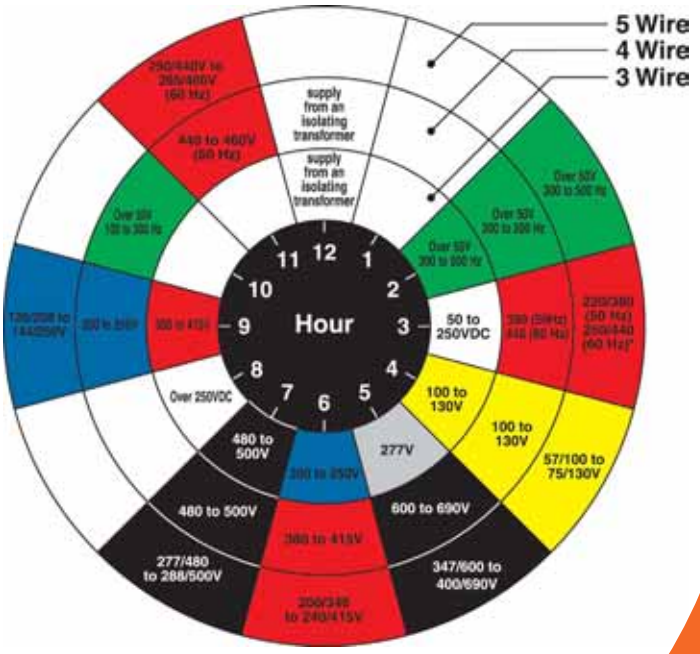
The test sequence is conducted by using a no-load, followed by a load sequence.

TABLE 2

Cable Secureness Test			
Device Rating Amperes	Force	Torque	Maximum Displacement
	N	N•m	mm
16	80	0.350	2
32	100	0.425	2
63	120	0.8	2
125	200	1.5	2

The flexible cord or cable is twisted and pulled. Values for the applied twisting torque and force of pull are shown in Table 2. In all cases the cord displacement is less than 2mm.

CEEtyp Clockface Positions in Accordance with IEC 309-2 and UL 1686



International Rating
Voltage AC (Except where noted)

IEC 309 Pin & Sleeve Devices

IP 67 Watertight Devices

IP 67
Watertight Devices

Amps	Poles & Wires	Voltage	Plugs	Connectors	Inlets		Receptacles	
								
					Straight	Angled	Straight	Angled
16	2P3W	100-130	316P4W	316C4W		316BA4W	316R4W	316RA4W
	2P3W	220-240	316P6W	316C6W		316BA6W	316R6W	316RA6W
	2P3W	380-415	316P9W	316C9W		316BA9W	316R9W	316RA9W
	3P4W	380-415 220-380	416P6W	416C6W		416BA6W	416R6W	416RA6W
	4P5W	240-415	516P6W	516C6W		516BA6W	516R6W	516RA6W
32	2P3W	100-130	332P4W	332C4W		332BA4W	332R4W	332RA4W
	2P3W	220-240	332P6W	332C6W		332BA6W	332R6W	332RA6W
	2P3W	380-415 380/50HZ	332P9W	332C9W		332BA9W	332R9W	332RA9W
	3P4W	440/60HZ	432P3W	432C3W		432BA3W	432R3W	
	3P4W	380-415 220-380	432P6W	432C6W		432BA6W	432R6W	432RA6W
	4P5W	240-415	532P6W	532C6W		532BA6W	532R6W	532RA6W
63	2P3W	100-130	363P4W	363C4W		363BA4W	363R4W	363RA4W
	2P3W	220-240	363P6W	363C6W		363BA6W	363R6W	363RA6W
	2P3W	380-415	363P9W	363C9W		363BA9W	363R9W	363RA9W
	3P4W	380-415 220-380	463P6W	463C6W		463BA6W	463R6W	4653RA6W
	4P5W	240-415	563P6W	563C6W		563BA6W	563R6W	563RA6W
125	2P3W	100-130	3125P4W	3125C4W	3125B4W		3125R4W	3125RA4W
	2P3W	220-240	3125P6W	3125C6W	3125B6W		3125R6W	3125RA6W
	2P3W	380-415	3125P9W	3125C9W	3125B9W		3125R9W	3125RA9W
	3P4W	380-415 220-380	4125P6W	4125C6W	4125B6W		4125R6W	4125RA6W
	4P5W	240-415	5125P6W	5125C6W	5125B6W		5125R6W	5125RA6W

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IEC 309 Pin & Sleeve Devices

Devices with Cable Glands

IP 44
Devices (with Cable Glands)

Amps	Poles & Wires	Voltage	Plugs	Connectors	Inlets		Receptacles	
								
					Straight	Angled	Straight	Angled
16	2P3W	100-130	316P4S	316C4S	316B4S		316R4S	316RA4S
	2P3W	220-240	316P6S	316C6S	316B6S		316R6S	316RA6S
	2P3W	380-415	316P9S	316C9S	316B9S		316R9S	316RA9S
	3P4W	380-415 220-380	416P6S	416C6S	416B6S		416R6S	416RA6S
	4P5W	240-415	516P6S	516C6S	516B6S		516R6S	516RA6S
32	2P3W	100-130	332P4S	332C4S	332B4S		332R4S	332RA4S
	2P3W	220-240	332P6S	332C6S	332B6S		332R6S	332RA6S
	2P3W	380-415	332P9S	332C9S	332B96		332R9S	332RA9S
	3P4W	380-415 220-380	432P3S	432C6S	432B6S		432R6S	432RA6S
	4P5W	240-415	532P6S	532C6S	532B6S		532R6S	532RA6S
63	2P3W	100-130	363P4S	363C4S		363BA4S	363R4S	363RA4S
	2P3W	220-240	363P6S	363C6S		363BA6S	363R6S	363RA6S
	2P3W	380-415	363P9S	363C9S		363BA9S	363R9S	363RA9S
	3P4W	380-415 220-380	463P6S	463C6S		463BA6S	463R6S	463RA6S
	4P5W	240-415	563P6S	563C6S		563BA6S	563R6S	563RA6S

IP 44

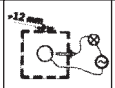
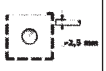
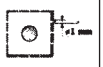
Devices (with Cable Sleeve)

Amps	Poles & Wires	Voltage	Plugs	Connectors
16	2P3W	100-130	316P4E	316C4E
	2P3W	220-240	316P6E	316C6E
	2P3W	380-415	316P9E	316C9E
	3P4W	380-415 220-380	416P6E	416C6E
	495W	240-415	516P6E	516C6E
32	2P3W	100-130	332P4E	332C4E
	2P3W	220-240	332P6E	332C6E
	2P3W	380-415	332P9E	332C9E
	3P4W	380-415 220-380	432P6E	432C6E
	4P5W	240-415	532P6E	532C6E
63	2P3W	100-130	363P4E	363C4E
	2P3W	220-240	363P6E	363C6E
	2P3W	380-415	363P9E	363C9E
	3P4W	380-415 220-380	463P6E	463C6E
	4P5W	240-415	563P6E	563C6E

IEC 309 Pin & Sleeve Devices

IP Rating System

TABLE 1 - CHARACTERISTICS DEFINED BY THE CEI 70-1 - IEC 529 - IEC 144 - UTE C 20-010 - DIN 40050 STANDARDS

First Digit - Protection against persons - touching and ingress of solid foreign objects			Second Digit - Protection against the penetration of liquids								
			IP_0	IP_1	IP_2	IP_3	IP_4	IP_5	IP_6	IP_7	IP_8
											
			Non protected	Protection against vertical falling of water drops	Protection against falling of water drops at an angle up to 15° from the vertical	Protection against spraying water (rain) at an angle up to 60° from the vertical	Protection against splashing water from any direction (360°)	Protection against water jets from any direction (360°)	Protection against heavy seas (waves)	Protection against effects of immersion in water under defined conditions of pressure and time	Protection against continuous submersion in water
											
IP 0_		Without protection	IP 00								
IP 1_		Protection against touching with the hand and solid objects greater than 50mm dia.	IP 10	IP 11	IP 12						
IP 2_		Protection against touching with the finger and solid objects greater than 12mm dia.	IP 20	IP 21	IP 22	IP 23					
IP 3_		Protection against touching with tools, wires, etc. more than 2.5mm thick and solid objects greater than 2.5mm dia.	IP 30	IP 31	IP 32	IP 33	IP 34				
IP 4_		Protection against touching with tools, wires, etc. more than 1mm thick and solid objects greater than 1mm dia.	IP 40	IP 41	IP 42	IP 43	IP 44				
IP 5_		Unlimited protection against contact with live parts and damaging deposits of dust	IP 50				IP 54	IP 55			
IP 6_		Unlimited protection against contact with live parts and any penetration of dust	IP 60					IP 65	IP 66	IP 67	IP 68

In some countries a third digit (for mechanical security) is added.

TABLE 2

Designation	Intended Use and Description	Construction Requirements
3	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust and damage from external ice formation.	Splashproof (IP44)
4	Indoor and outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.	Watertight (IP67)
4X	Indoor and outdoor use primarily to provide a degree of protection against corrosion, windblown splashing water, hose-directed water and damage from external ice formation.	Watertight (IP67)
6	Indoor and outdoor use primarily to provide a degree of protection against hose-directed water, and the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.	Watertight (IP67)
12, 12K	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.	Splashproof (IP44)

This information is provided only as a general guide. No specific recommendation is intended. As each application may vary, testing should be conducted by the user in the intended environment.

IEC 309 Pin & Sleeve Devices

Useful Tables

TABLE 1 Cable and Conductor Strip Length

		Device Rating			
North American		20A	30A	60A	100A
International		16A	32A	63A	125A
Outer Jacket Strip Length	inch	2	2 1/2	3	4
	mm	50	63	76	102
Conductor Strip Length	inch	1/2	1/2	3/4	1 1/8
	mm	12	12	19	28
Pilot Conductor Strip Length	inch			7/16	5/8
	mm			11	16

TABLE 2 Maximum Torque applied to terminal screws

		Device Rating			
North American		20A	30A	60A	100A
International		16A	32A	63A	125A
Torque Terminal Screw	lb. - in.	7.1	7.1	17.6	35.3
	N - m	0.8	0.8	2	4
Torque Pilot Screw	lb. - in.			7.1	7.1
	N - m			0.8	0.8

TABLE 4 Metric and AWG/MCM conductor size equivalents

Conductor Size		Test Range (A)
mm^2	AWG/MCM	
1,0	18	0-8
1,5	16	8-12
2,5	14	12-15
2,5	12	15-20
4,0	10	20-25
6,0	10	25-32
10	8	32-50
16	6	50-65
25	4	65-85
35	3	85-100
35	2	100-115
50	1	115-130
50	1/0	130-150
70	2/0	150-175
95	3/0	175-200
95	4/0	200-225
120	250	225-250
150	300	250-275
185	350	275-300
185	400	300-350
240	500	350-400

TABLE 3 Cable and Conductor Range

Amps		Poles &	From		To			Cord Grip Range			
								With Cable Gland		With Cable Sleeve	
N.A.	Intl.	Wires	AWG	Type	AWG	Type		North American	International	North American	International
16	20	2P3W	16	S	10	S	inch	0.275 - 0.530	0.275 - 0.530	0.275 - 0.675	0.275 - 0.675
							mm	7 - 13.5	7 - 13.5	7 - 17	7 - 17
		3P4W	16	S	10	S	inch	.395 - .825	0.275 - 0.630	0.315 - 0.800	0.315 - 0.800
							mm	10 - 21	7 - 16	8 - 20	8 - 20
		4P5W	16	S	10	S	inch	.395 - .825	0.275 - 0.630	0.315 - 0.800	0.315 - 0.800
							mm	10 - 21	7 - 16	8 - 20	8 - 20
30	32	2P3W	12	S	8	S	inch	.395 - .825	.395 - .825	0.590 - 0.950	0.435 - 0.950
							mm	10 - 21	10 - 21	15 - 24	11 - 24
		3P4W	12	S	8	S	inch	0.650 - 1.10	.395 - .825	0.590 - 0.950	0.435 - 0.950
							mm	16.5 - 28	10 - 21	15 - 24	11 - 24
		4P5W	12	S	8	S	inch	0.650 - 1.10	.395 - .825	0.590 - 0.950	0.435 - 0.950
							mm	16.5 - 28	10 - 21	15 - 24	11 - 24
60*	63*	2P3W	8	S	4	S or W	inch	.650 - 1.50	.650 - 1.50	0.635 - 1.30	0.600 - 1.30
							mm	16.5 - 38	16.5 - 38	16 - 33	15 - 33
		3P4W	8	S	4	S or W	inch	.650 - 1.50	.650 - 1.50	0.635 - 1.30	0.600 - 1.30
							mm	16.5 - 38	16.5 - 38	16 - 33	15 - 33
		4P5W	8	S	4	S or W	inch	.650 - 1.50	.650 - 1.50	0.635 - 1.30	0.600 - 1.30
							mm	16.5 - 38	16.5 - 38	16 - 33	15 - 33
100*	125*	2P3W	6	S or W	2/0	S or W	inch	.950 - 1.90	.950 - 1.90		
							mm	24 - 48	24 - 48		
		3P4W	6	S or W	2/0	S or W	inch	.950 - 1.90	.950 - 1.90		
							mm	24 - 48	24 - 48		
		4P5W	6	S or W	2/0	S or W	inch	.950 - 1.90	.950 - 1.90		
							mm	24 - 48	24 - 48		

* Pilot conductor 16 to 8 AWG

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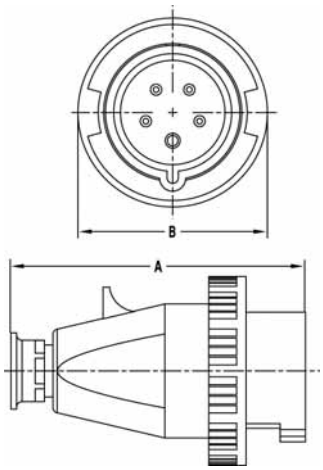
IEC 309 Pin & Sleeve Devices

Approximate Dimensions

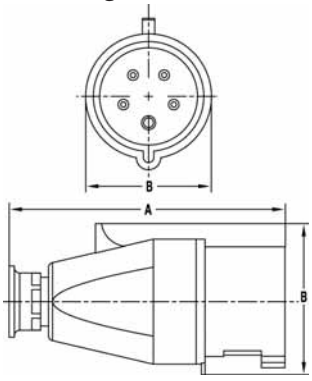
WATERTIGHT PLUGS (IP67)



Amps				Dimensions		Cord Grip Range	
N.A.	Intl.	Type		A	B	N. American	International
20	16	3 Wire	inch	4.96	2.83	0.275 - 0.530	0.275 - 0.530
			mm	126	72	7.0 - 13.5	7.0 - 13.5
20	16	4 Wire	inch	5.20	3.19	0.395 - 0.825	0.275 - 0.630
			mm	132	81	10.0 - 21.0	7.0 - 16.0
20	16	5 Wire	inch	5.20	3.46	0.395 - 0.825	0.275 - 0.630
			mm	132	88	10.0 - 21.0	7.0 - 16.0
30	32	3 Wire	inch	6.14	3.78	0.395 - 0.825	0.395 - 0.825
			mm	156	96	10.0 - 21.0	10.0 - 21.0
30	32	4 Wire	inch	6.14	3.78	0.650 - 1.10	0.395 - 0.825
			mm	156	96	16.5 - 28.0	10.0 - 21.0
30	32	5 Wire	inch	6.14	4.06	0.650 - 1.10	0.395 - 0.825
			mm	156	103	16.5 - 28.0	10.0 - 21.0
60	63	3, 4, & 5 Wire	inch	9.57	4.33	0.650 - 1.50	0.650 - 1.50
			mm	243	110	16.5 - 38.0	16.5 - 38.0
100	125	3, 4, & 5 Wire	inch	12.40	5.12	0.950 - 1.90	0.950 - 1.90
			mm	315	130	24.0 - 48.0	24.0 - 48.0

SPLASHPROOF PLUGS (IP44)

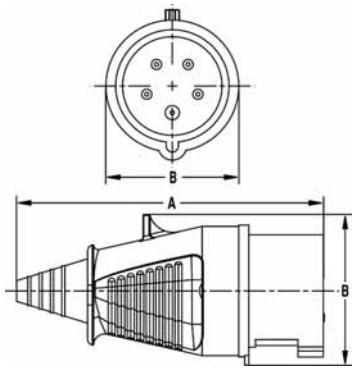
(with cable gland)



Amps				Dimensions		Cord Grip Range	
N.A.	Intl.	Type		A	B	N. American	International
20	16	3 Wire	inch	4.84	2.36	0.275 - 0.530	0.275 - 0.530
			mm	123	60	7.0 - 13.5	7.0 - 13.5
20	16	4 Wire	inch	5.16	2.68	0.395 - 0.825	0.275 - 0.630
			mm	131	68	10.0 - 21.0	7.0 - 16.0
20	16	5 & 7 Wire	inch	5.16	2.95	0.395 - 0.825	0.275 - 0.630
			mm	131	75	10.0 - 21.0	7.0 - 16.0
30	32	3 Wire	inch	6.10	3.11	0.395 - 0.825	0.395 - 0.825
			mm	155	79	10.0 - 21.0	10.0 - 21.0
30	32	4 Wire	inch	6.10	3.11	0.650 - 1.10	0.395 - 0.825
			mm	155	79	16.5 - 28.0	10.0 - 21.0
30	32	5 & 7 Wire	inch	6.10	3.46	0.650 - 1.10	0.395 - 0.825
			mm	155	88	16.5 - 28.0	10.0 - 21.0
60	63	3, 4, & 5 Wire	inch	9.45	3.82	0.650 - 1.50	0.650 - 1.50
			mm	240	97	16.5 - 38.0	16.5 - 38.0

SPLASHPROOF PLUGS (IP44)

(with cable sleeve)

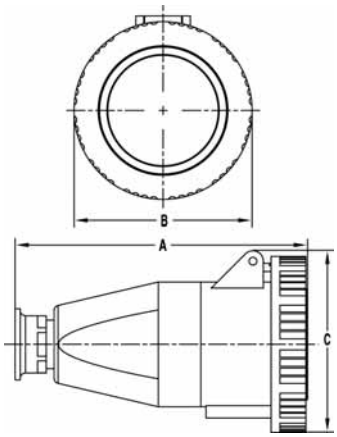


Amps				Dimensions		Cord Grip Range	
N.A.	Intl.	Type		A	B	N. American	International
20	16	3 Wire	inch	5.63	2.36	0.275 - 0.675	0.275 - 0.675
			mm	143	60	7.0 - 17.0	7.0 - 17.0
20	16	4 Wire	inch	5.79	2.68	0.315 - 0.800	0.315 - 0.800
			mm	147	68	8.0 - 20.0	8.0 - 20.0
20	16	5 & 7 Wire	inch	6.02	2.95	0.315 - 0.800	0.315 - 0.800
			mm	153	75	8.0 - 20.0	8.0 - 20.0
30	32	3 Wire	inch	7.13	3.11	0.590 - 0.950	0.435 - 0.950
			mm	181	79	15.0 - 24.0	11.0 - 24.0
30	32	4 Wire	inch	7.13	3.11	0.590 - 0.950	0.435 - 0.95
			mm	181	79	15.0 - 24.0	11.0 - 24.0
30	32	5 & 7 Wire	inch	7.13	3.46	0.590 - 0.950	0.435 - 0.95
			mm	181	88	15.0 - 24.0	11.0 - 24.0
60	63	3, 4, & 5 Wire	inch	9.92	3.82	0.635 - 1.30	0.600 - 1.30
			mm	252	97	16.0 - 33.0	15.0 - 33.0

IEC 309 Pin & Sleeve Devices

Approximate Dimensions

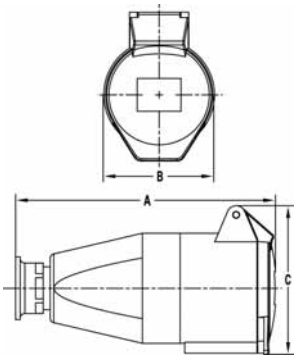
WATERTIGHT CONNECTORS (IP67)



Amps N.A.	Amps Intl.	Type		Dimensions A	Dimensions B	Dimensions C	Cord Grip Range N. American	Cord Grip Range International
20	16	3 Wire	inch	5.35	2.83	3.07	0.275 - 0.530	0.275 - 0.530
			mm	136	72	78	7.0 - 13.5	7.0 - 13.5
20	16	4 Wire	inch	5.63	3.19	3.35	0.395 - 0.825	0.275 - 0.630
			mm	143	81	85	10.0 - 21.0	7.0 - 16.0
20	16	5 Wire	inch	5.63	3.46	3.58	0.395 - 0.825	0.275 - 0.630
			mm	143	88	91	10.0 - 21.0	7.0 - 16.0
30	32	3 Wire	inch	6.97	3.78	3.78	0.395 - 0.825	0.395 - 0.825
			mm	177	96	96	10.0 - 21.0	10.0 - 21.0
30	32	4 Wire	inch	6.97	3.78	3.78	0.650 - 1.10	0.395 - 0.825
			mm	177	96	96	16.5 - 28.0	10.0 - 21.0
30	32	5 Wire	inch	6.97	4.06	4.13	0.650 - 1.10	0.395 - 0.825
			mm	177	103	105	16.5 - 28.0	10.0 - 21.0
60	63	3, 4, & 5 Wire	inch	10.0	4.33	4.61	0.650 - 1.50	0.650 - 1.50
			mm	255	110	117	16.5 - 38.0	16.5 - 38.0
100	125	3, 4, & 5 Wire	inch	13.1	5.12	5.12	0.950 - 1.90	0.950 - 1.90
			mm	332	130	130	24.0 - 48.0	24.0 - 48.0

SPLASHPROOF CONNECTORS (IP44)

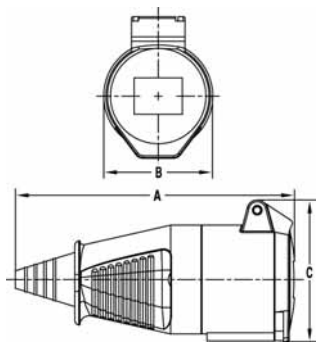
(with cable gland)



Amps N.A.	Amps Intl.	Type		Dimensions A	Dimensions B	Dimensions C	Cord Grip Range N. American	Cord Grip Range International
20	16	3 Wire	inch	5.32	2.01	2.68	0.275 - 0.530	0.275 - 0.530
			mm	135	51	68	7.0 - 13.5	7.0 - 13.5
20	16	4 Wire	inch	5.95	2.56	3.35	0.395 - 0.825	0.275 - 0.630
			mm	151	65	85	10.0 - 21.0	7.0 - 16.0
20	16	5 & 7 Wire	inch	5.95	2.56	3.35	0.395 - 0.825	0.275 - 0.630
			mm	151	65	85	10.0 - 21.0	7.0 - 16.0
30	32	3 Wire	inch	6.73	2.83	3.58	0.395 - 0.825	0.395 - 0.825
			mm	171	72	91	10.0 - 21.0	10.0 - 21.0
30	32	4 Wire	inch	6.73	2.83	3.58	0.650 - 1.10	0.395 - 0.825
			mm	171	72	91	16.5 - 28.0	10.0 - 21.0
30	32	5 & 7 Wire	inch	6.73	2.83	3.86	0.650 - 1.10	0.395 - 0.825
			mm	171	72	98	16.5 - 28.0	10.0 - 21.0
60	63	3, 4, & 5 Wire	inch	10.0	3.78	4.49	0.650 - 1.50	0.650 - 1.50
			mm	255	96	114	16.5 - 38.0	16.5 - 38.0

SPLASHPROOF CONNECTORS (IP44)

(with cable sleeve)



Amps N.A.	Amps Intl.	Type		Dimensions A	Dimensions B	Dimensions C	Cord Grip Range N. American	Cord Grip Range International
20	16	3 Wire	inch	6.06	2.01	2.69	0.275 - 0.675	0.275 - 0.675
			mm	154	51	68.4	7.0 - 17.0	7.0 - 17.0
20	16	4 Wire	inch	6.54	2.56	2.97	0.315 - 0.800	0.315 - 0.800
			mm	166	65	75.4	8.0 - 20.0	8.0 - 20.0
20	16	5 & 7 Wire	inch	6.54	2.56	3.29	0.315 - 0.800	0.315 - 0.800
			mm	166	65	83.5	8.0 - 20.0	8.0 - 20.0
30	32	3 Wire	inch	7.72	2.83	3.54	0.590 - 0.950	0.435 - 0.950
			mm	196	72	90	15.0 - 24.0	11.0 - 24.0
30	32	4 Wire	inch	7.72	2.83	3.54	0.590 - 0.950	0.435 - 0.95
			mm	196	72	90	15.0 - 24.0	11.0 - 24.0
30	32	5 & 7 Wire	inch	7.72	2.83	3.78	0.590 - 0.950	0.435 - 0.95
			mm	196	72	96	15.0 - 24.0	11.0 - 24.0
60	63	3, 4, & 5 Wire	inch	10.5	3.78	4.41	0.635 - 1.30	0.600 - 1.30
			mm	266	96	112	16.0 - 33.0	15.0 - 33.0

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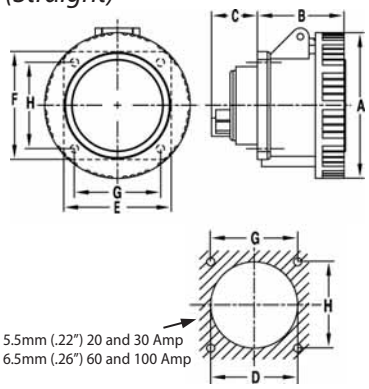
IEC 309 Pin & Sleeve Devices

Approximate Dimensions

WATERTIGHT RECEPTACLE (IP67)

(Straight)

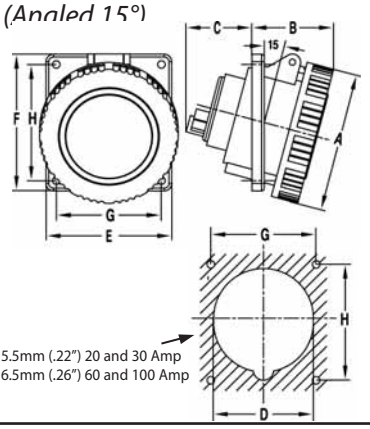


5.5mm (.22") 20 and 30 Amp
6.5mm (.26") 60 and 100 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
20	16	3 Wire	inch	2.82	2.05	1.10	1.81	2.44	2.44	1.85	1.85
			mm	71.5	52	28	46	62	62	47	47
20	16	4 Wire	inch	31.9	2.05	1.10	2.36	2.95	2.95	2.36	2.36
			mm	81	52	28	60	75	75	60	60
20	16	5 Wire	inch	3.46	2.05	1.10	2.36	2.95	2.95	2.36	2.36
			mm	88	52	28	60	75	75	60	60
30	32	3 & 4 Wire	inch	3.78	2.56	1.06	2.36	2.95	2.95	2.36	2.36
			mm	96	65	27	60	75	75	60	60
30	32	5 Wire	inch	4.06	2.56	1.06	2.36	2.95	2.95	2.36	2.36
			mm	103	65	27	60	75	75	60	60
60	63	3, 4, & 5 Wire	inch	4.29	3.27	2.05	3.54	3.94	4.21	3.03	3.35
			mm	109	83	52	90	100	107	77	85
100	125	3, 4, & 5 Wire	inch	5.12	3.78	2.52	3.54	4.49	4.49	3.54	3.54
			mm	130	96	64	90	114	114	90	90

WATERTIGHT RECEPTACLE (IP67)

(Angled 15°)

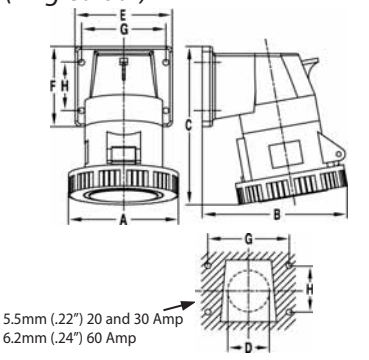


5.5mm (.22") 20 and 30 Amp
6.5mm (.26") 60 and 100 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
20	16	3 Wire	inch	2.82	1.93	1.61	2.01	2.44	2.68	1.85	1.85
			mm	71.5	49	41	51	62	68	47	47
20	16	4 Wire	inch	3.19	2.05	1.50	2.87	3.62	3.94	3.03	3.35
			mm	81	52	38	73	92	100	77	85
20	16	5 Wire	inch	3.46	2.05	1.50	2.87	3.62	3.94	3.03	3.35
			mm	88	52	38	73	92	100	77	85
30	32	3 & 4 Wire	inch	3.78	2.20	1.85	2.87	3.62	3.94	3.03	3.35
			mm	96	56	47	73	92	100	77	85
30	32	5 Wire	inch	4.06	2.36	1.85	2.87	3.62	3.94	3.03	3.35
			mm	103	60	47	73	92	100	77	85
60	63	3, 4, & 5 Wire	inch	4.29	3.23	2.52	3.19	3.94	4.21	3.03	3.35
			mm	109	82	64	81	100	107	77	85
100	125	3, 4, & 5 Wire	inch	5.12	3.70	2.95	3.54	4.49	4.49	3.54	3.54
			mm	130	94	75	90	114	114	90	90

WATERTIGHT RECEPTACLE (IP67)

(Angled 80°)



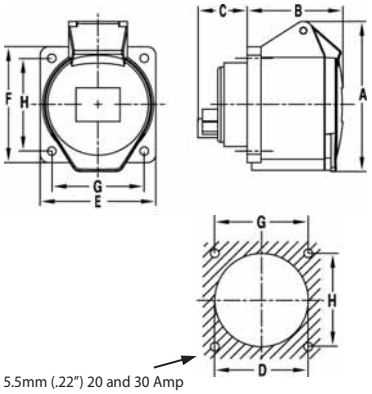
5.5mm (.22") 20 and 30 Amp
6.2mm (.24") 60 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D max	E	F	G	H
20	16	3 Wire	inch	2.83	3.46	4.29	1.18	2.56	2.05	2.17	1.18
			mm	72	88	109	30	65	52	55	30
20	16	4 Wire	inch	3.19	4.25	4.84	1.50	3.15	2.60	2.68	1.57
			mm	81	108	123	38	80	66	68	40
20	16	5 Wire	inch	3.46	4.25	4.84	1.50	3.15	2.60	2.68	1.57
			mm	88	108	123	38	80	66	68	40
30	32	3 & 4 Wire	inch	3.78	4.76	5.71	1.73	3.54	2.95	3.07	1.77
			mm	96	121	145	44	90	75	78	45
30	32	5 Wire	inch	4.06	4.84	5.71	1.73	3.54	2.95	3.07	1.77
			mm	103	123	145	44	90	75	78	45
60	63	3, 4, & 5 Wire	inch	4.33	5.63	7.99	2.20	4.49	4.49	3.54	3.54
			mm	110	143	203	56	114	114	90	90

IEC 309 Pin & Sleeve Devices

Approximate Dimensions

SPLASHPROOF RECEPTACLES (IP44)

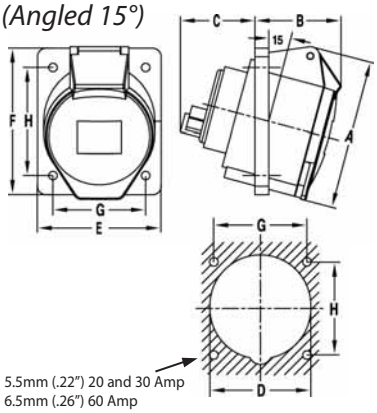


5.5mm (.22") 20 and 30 Amp
6.5mm (.26") 60 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
20	16	3 Wire	inch	2.68	2.05	1.10	1.81	2.44	2.44	1.85	1.85
			mm	68	52	28	46	62	62	47	47
20	16	4 & 5 Wire	inch	3.35	2.09	1.10	2.36	2.95	2.95	2.36	2.36
			mm	85	53	28	60	75	75	60	60
20	16	7 Wire	inch	3.35	2.09	1.10	2.36	3.15	3.15	2.36	2.36
			mm	85	53	28	60	80	80	60	60
30	32	3 & 4 Wire	inch	3.58	2.56	1.06	2.36	2.95	2.95	2.36	2.36
			mm	91	65	27	60	75	75	60	60
30	32	5 Wire	inch	3.86	2.56	1.06	2.36	2.95	2.95	2.36	2.36
			mm	98	65	27	60	75	75	60	60
30	32	7 Wire	inch	3.86	2.56	1.06	2.36	3.15	3.15	2.36	2.36
			mm	98	65	27	60	80	80	60	60
60	63	3, 4, & 5 Wire	inch	4.49	3.35	2.05	3.54	3.94	4.21	3.03	3.35
			mm	114	85	52	90	100	107	77	85

SPLASHPROOF RECEPTACLE (IP44)

(Angled 15°)

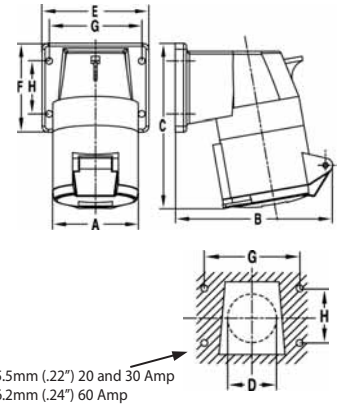


5.5mm (.22") 20 and 30 Amp
6.5mm (.26") 60 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
20	16	3 Wire	inch	2.68	1.77	1.61	2.01	2.44	2.68	1.85	1.85
			mm	68	45	41	51	62	68	47	47
20	16	4 Wire	inch	3.35	2.01	1.50	2.36	2.95	2.95	2.36	2.36
			mm	85	51	38	60	75	75	60	60
20	16	5 Wire	inch	3.35	2.01	1.50	2.56	2.95	3.35	2.36	2.36
			mm	85	51	38	65	75	85	60	60
30	32	3 Wire	inch	3.58	2.05	1.85	2.64	2.95	3.54	2.36	2.36
			mm	91	52	47	67	75	90	60	60
30	32	4 Wire	inch	3.85	2.05	1.85	2.64	2.95	3.54	2.36	2.36
			mm	91	52	47	67	75	90	60	60
30	32	5 Wire	inch	3.86	2.20	1.85	2.70	3.15	3.74	2.36	2.36
			mm	98	56	47	68.5	80	95	60	60
60	63	3, 4, & 5 Wire	inch		3.11	2.52	3.19	3.94	4.21	3.03	3.35
			mm		79	64	81	100	107	77	85

SPLASHPROOF RECEPTACLE (IP44)

(Angled 80°)



5.5mm (.22") 20 and 30 Amp
6.2mm (.24") 60 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D max	E	F	G	H
20	16	3 Wire	inch	2.01	3.43	4.57	1.18	2.56	2.05	2.17	1.18
			mm	51	87	116	30	65	52	55	30
20	16	4 Wire	inch	2.56	4.33	4.80	1.50	3.15	2.60	2.68	1.57
			mm	65	110	122	38	80	66	68	40
20	16	5 & 7 Wire	inch	2.56	4.33	4.80	1.50	3.15	2.60	2.68	1.57
			mm	65	110	122	38	80	66	68	40
30	32	3 Wire	inch	2.83	4.72	5.55	1.73	3.54	2.95	3.07	1.77
			mm	72	120	141	44	90	75	78	45
30	32	4 Wire	inch	2.83	4.72	5.55	1.73	3.54	2.95	3.07	1.77
			mm	72	120	141	44	90	75	78	45
30	32	5 & 7 Wire	inch	2.83	4.88	5.59	1.73	3.54	2.95	3.07	1.77
			mm	72	124	142	44	90	75	78	45
60	63	3, 4, & 5 Wire	inch	3.78	5.51	7.64	2.20	4.49	4.49	3.54	3.54
			mm	96	140	194	56	114	114	90	90

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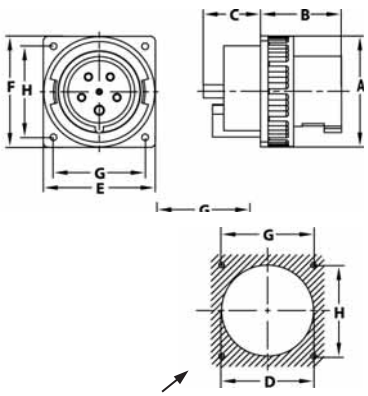
IEC 309 Pin & Sleeve Devices

Approximate Dimensions

WATERTIGHT INLETS (IP67)

(Straight)

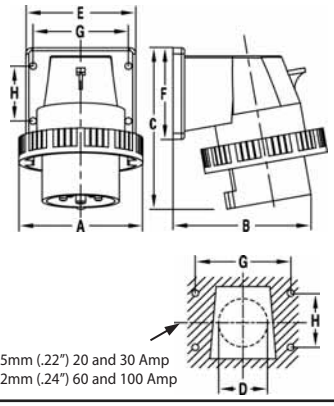


6.5mm (.26") 60 and 100 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
100	125	3 Wire	inch	5.12	3.70	2.20	3.54	5.12	5.12	4.09	4.09
			mm	130	94	56	90	130	130	104	104
100	125	4 Wire	inch	5.12	3.70	2.20	3.54	5.12	5.12	4.09	4.09
			mm	130	94	56	90	130	130	104	104
100	125	5 Wire	inch	5.12	3.70	2.20	3.54	5.12	5.12	4.09	4.09
			mm	130	94	56	90	130	130	104	104

WATERTIGHT INLETS (IP67)

(Angled 80°)

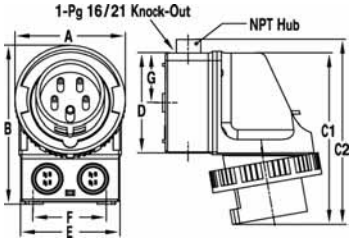


5.5mm (.22") 20 and 30 Amp
6.2mm (.24") 60 and 100 Amp

Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D (max)	E	F	G	H
20	16	3 Wire	inch	2.83	3.19	3.86	1.18	2.56	2.05	2.17	1.18
			mm	72	81	98	30	65	52	55	30
20	16	4 Wire	inch	3.19	3.90	4.33	1.50	3.15	2.60	2.68	1.57
			mm	81	99	110	38	80	66	68	40
20	16	5 Wire	inch	3.50	4.06	4.45	1.50	3.15	2.60	2.68	1.57
			mm	89	103	113	38	80	66	68	40
30	32	3 Wire	inch	3.78	4.45	5.12	1.73	3.54	2.95	3.07	1.77
			mm	96	113	130	44	90	75	78	45
30	32	4 Wire	inch	3.78	4.45	5.12	1.73	3.54	2.95	3.07	1.77
			mm	96	113	130	44	90	75	78	45
30	32	5 Wire	inch	4.02	4.61	5.12	1.73	3.54	2.95	3.07	1.77
			mm	102	117	130	44	90	75	78	45
60	63	3, 4, & 5 Wire	inch	4.33	5.00	7.20	2.20	4.49	4.49	3.54	3.54
			mm	110	127	183	56	114	114	90	90

WATERTIGHT INLETS (IP67)

(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C¹	C²	D	E	F	G	Hub Size*
20	16	3 Wire	inch	2.83	5.51	6.06	6.73	3.78	3.74	2.62	1.87	3/4"
			mm	72	140	154	171	96	95	66.5	47.5	
20	16	4 Wire	inch	3.19	5.51	6.06	6.73	3.78	3.74	2.62	1.87	3/4"
			mm	81	140	154	171	96	95	66.5	47.5	
20	16	5 Wire	inch	3.46	5.51	6.06	6.73	3.78	3.74	2.62	1.87	3/4"
			mm	88	140	154	171	96	95	66.5	47.5	
30	32	3 Wire	inch	3.78	5.79	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	96	147	164	181	96	95	66.5	47.5	
30	32	4 Wire	inch	3.78	5.79	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	96	147	164	181	96	95	66.5	47.5	
30	32	5 Wire	inch	4.06	5.91	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	103	150	164	181	96	95	66.5	47.5	

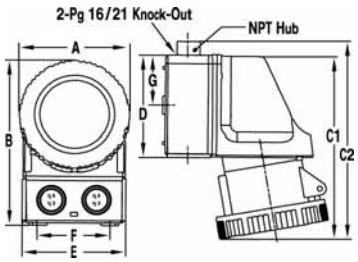
* North American devices supplied with NPT Hub.

IEC 309 Pin & Sleeve Devices

Approximate Dimensions

WATERTIGHT RECEPTACLES (IP67)

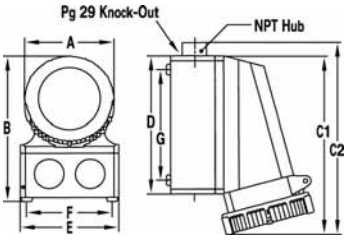
(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		A	B	C¹	C²	D	E	F	G	Hub Size*
20	16	3 Wire	inch	2.83	5.51	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	72	140	164	181	96	95	66.5	47.5	
		4 Wire	inch	3.19	5.67	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	81	144	164	181	96	95	66.5	47.5	
		5 Wire	inch	3.46	5.79	6.46	7.13	3.78	3.74	2.62	1.87	3/4"
			mm	88	147	164	181	96	95	66.5	47.5	
30	32	3 Wire	inch	3.78	6.06	6.93	7.60	3.78	3.74	2.62	1.87	3/4"
			mm	96	154	176	193	96	95	66.5	47.5	
		4 Wire	inch	3.78	6.06	6.93	7.60	3.78	3.74	2.62	1.87	3/4"
			mm	96	154	176	193	96	95	66.5	47.5	
		5 Wire	inch	4.06	6.14	6.93	7.60	3.78	3.74	2.62	1.87	3/4"
			mm	103	156	176	193	96	95	66.5	47.5	

WATERTIGHT RECEPTACLES (IP67)

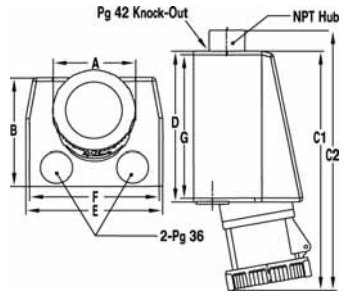
(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		A	B	C¹	C²	D	E	F	G	Hub Size*
60	63	4 Wire	inch	4.33	7.01	8.82	9.76	6.77	4.76	4.09	5.35	1 1/4"
			mm	110	178	224	248	172	121	104	136	
		5 Wire	inch	4.33	7.01	8.82	9.76	6.77	4.76	4.09	5.35	1 1/4"
			mm	110	178	224	248	172	121	104	136	

WATERTIGHT RECEPTACLES (IP67)

(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		A	B	C¹	C²	D	E	F	G	Hub Size*
100	125	3 Wire	inch	5.12	7.48	16.0	16.9	10.4	8.66	7.87	9.45	2"
			mm	130	190	406	430	263	220	200	240	
		4 Wire	inch	5.12	7.48	16.0	16.9	10.4	8.66	7.87	9.45	2"
			mm	130	190	406	430	263	220	200	240	
		5 Wire	inch	5.12	7.48	16.0	16.9	10.4	8.66	7.87	9.45	2"
			mm	130	190	406	430	263	220	200	240	

* North American devices supplied with NPT Hub.

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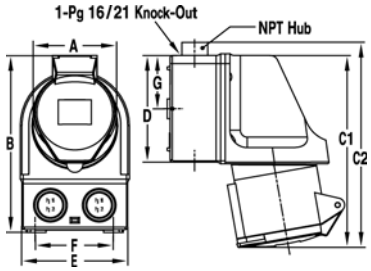
IEC 309 Pin & Sleeve Devices

Approximate Dimensions

SPLASHPROOF RECEPTACLES (IP44)

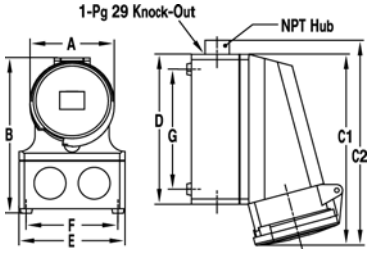
(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C¹	C²	D	E	F	G	Hub Size*
20	16	3 Wire	inch	2.01	5.51	6.30	6.97	3.78	3.74	2.62	1.87	3/4″
			mm	51	140	160	177	96	95	66.5	47.5	
20	16	4 Wire	inch	2.56	5.63	6.46	7.13	3.78	3.74	2.62	1.87	3/4″
			mm	65	143	164	181	96	95	66.5	47.5	
20	16	5 & 7 Wire	inch	2.56	5.75	6.46	7.13	3.78	3.74	2.62	1.87	3/4″
			mm	65	146	164	181	96	95	66.5	47.5	
30	32	3 Wire	inch	2.83	6.06	6.81	7.48	3.78	3.74	2.62	1.87	3/4″
			mm	72	154	173	190	96	95	66.5	47.5	
30	32	4 Wire	inch	2.83	6.06	6.81	7.48	3.78	3.74	2.62	1.87	3/4″
			mm	72	154	173	190	96	95	66.5	47.5	
30	32	5 & 7 Wire	inch	2.83	6.18	6.81	7.48	3.78	3.74	2.62	1.87	3/4″
			mm	72	157	173	190	96	95	66.5	47.5	

SPLASHPROOF RECEPTACLES (IP44)

(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C¹	C²	D	E	F	G	Hub Size*
60	63	4 Wire	inch	3.78	7.01	8.66	9.61	6.77	4.76	4.09	5.35	1 1/4″
			mm	96	178	220	244	172	121	104	136	
60	63	5 Wire	inch	3.78	7.01	8.66	9.61	6.77	4.76	4.09	5.35	1 1/4″
			mm	96	178	220	244	172	121	104	136	

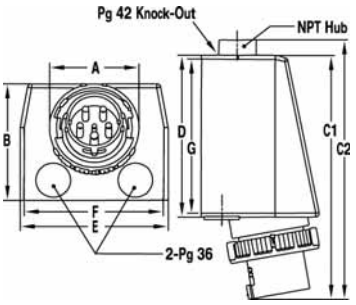
* North American devices supplied with NPT Hub.

IEC 309 Pin & Sleeve Devices

Approximate Dimensions

WATERTIGHT INLET (IP67)

(Surface Mount, Angled 80°)



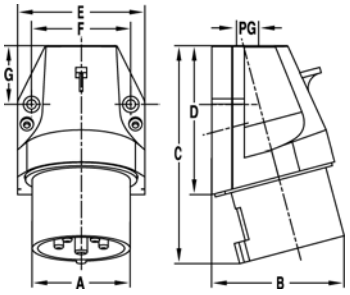
Amps N.A.	Amps Intl.	Type		Dimensions A	B	C¹	C²	D	E	F	G	Hub Size*
60	63	3 Wire	inch	4.33	4.65	9.13	10.1	5.98	4.65	4.17	4.72	1 1/4"
			mm	110	118	232	256	152	118	106	120	
60	63	4 Wire	inch	4.33	4.65	9.13	10.1	5.98	4.65	4.17	4.72	1 1/4"
			mm	110	118	232	256	152	118	106	120	
60	63	5 Wire	inch	4.33	4.65	9.13	10.1	5.98	4.65	4.17	4.72	1 1/4"
			mm	110	118	232	256	152	118	106	120	
100	125	3 Wire	inch	5.12	6.89	15.4	16.3	10.4	8.66	7.87	9.45	2"
			mm	130	175	390	414	263	220	200	240	
100	125	4 Wire	inch	5.12	6.89	15.4	16.3	10.4	8.66	7.87	9.45	2"
			mm	130	175	390	414	263	220	200	240	
100	125	5 Wire	inch	5.12	6.89	15.4	16.3	10.4	8.66	7.87	9.45	2"
			mm	130	175	390	414	263	220	200	240	

* North American devices supplied with NPT Hub.

Note: Two (2) PG36 knock-outs are on the bottom of the 100/125 amp device only.

SPLASHPROOF INLET (IP44)

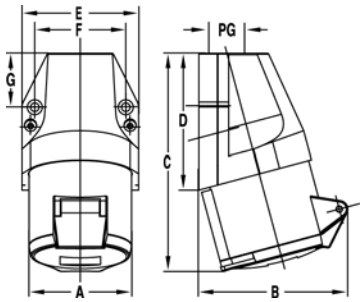
(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	PG
	16	3 Wire	inch	1.71	2.36	4.33	2.91	2.36	1.79	1.10	
			mm	43.5	60	110	74	60	45.5	28	13.5
	16	4 Wire	inch	1.97	2.87	4.61	3.15	2.91	2.36	1.22	
			mm	50	73	117	80	74	60	31	16
	16	5 & 7 Wire	inch	2.20	2.87	4.61	3.15	2.91	2.36	1.22	
			mm	56	73	117	80	74	60	31	16
	32	3 Wire	inch	2.24	3.15	5.55	3.82	3.23	2.36	1.77	
			mm	57	80	141	97	82	60	45	21
	32	4 Wire	inch	2.24	3.15	5.55	3.82	3.23	2.36	1.77	
			mm	57	80	141	97	82	60	45	21
	32	5 & 7 Wire	inch	2.52	3.39	5.55	3.82	3.23	2.36	1.77	
			mm	64	86	141	97	82	60	45	21

SPLASHPROOF RECEPTACLE (IP44)

(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	PG
	16	3 Wire	inch	2.68	2.95	4.72	2.91	2.36	1.79	1.10	
			mm	68	75	120	74	60	45.5	28	13.5
	16	4 Wire	inch	3.35	3.39	5.04	3.15	2.91	2.36	1.22	
			mm	85	86	128	80	74	60	31	16
	16	5 & 7 Wire	inch	3.35	3.54	5.08	3.15	2.91	2.36	1.22	
			mm	85	90	129	80	74	60	31	16
	32	3 Wire	inch	3.58	4.06	6.06	3.82	3.23	2.36	1.77	
			mm	91	103	154	97	82	60	45	21
	32	4 Wire	inch	3.58	4.06	6.06	3.82	3.23	2.36	1.77	
			mm	91	103	154	97	82	60	45	21
	32	5 & 7 Wire	inch	3.86	4.13	6.10	3.82	3.23	2.36	1.77	
			mm	98	105	155	97	82	60	45	21

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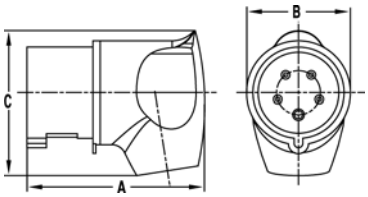
IEC 309 Pin & Sleeve Devices

Approximate Dimensions

SPLASHPROOF PLUG (IP44)

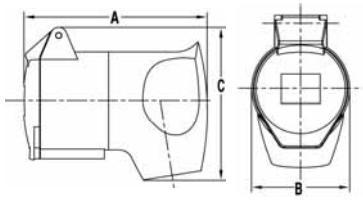
(Angled)



Amps			Dimensions				
N.A.	Intl.	Type		A	B	C	Cord Grip Range
20	16	3 Wire	inch	3.31	1.98	2.66	0.315 - 0.590
			mm	84	50.3	67.5	8.0 - 15.0
20	16	4 Wire	inch	3.98	2.53	3.32	0.395 - 0.650
			mm	101	64.3	84.2	10.0 - 16.5
20	16	5 Wire	inch	3.98	2.53	3.39	0.395 - 0.650
			mm	101	64.3	86	10.0 - 6.5
30	32	3 Wire	inch	4.53	2.83	3.76	0.435 - 0.865
			mm	115	72	95.5	11.0 - 22.0
30	32	4 Wire	inch	4.53	2.83	3.76	0.435 - 0.865
			mm	115	72	95.5	110. - 22.0
30	32	5 Wire	inch	4.53	2.83	3.96	0.435 - 0.865
			mm	115	72	100.5	11.0 - 22.0

SPLASHPROOF CONNECTOR (IP44)

(Angled)



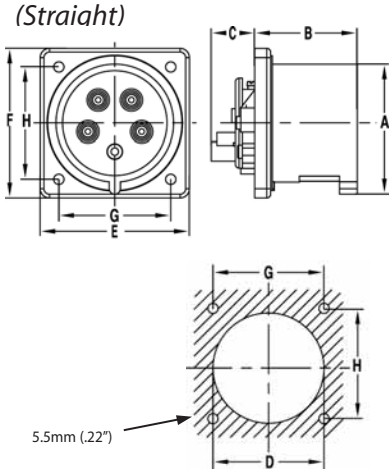
Amps			Dimensions				
N.A.	Intl.	Type		A	B	C	Cord Grip Range
20	16	3 Wire	inch	3.74	1.98	3.15	0.315-0.510
			mm	95	50.3	80	8.0-13.0

IEC 309 Pin & Sleeve Devices

Approximate Dimensions

SPLASHPROOF INLETS (IP44)

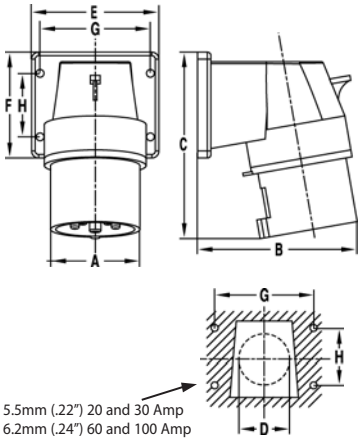
(Straight)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D	E	F	G	H
20	16	3 Wire	inch	1.85	1.85	0.87	1.97	2.44	2.44	1.85	1.85
			mm	47	47	22	50	62	62	47	47
20	16	4 Wire	inch	2.09	1.85	0.87	2.64	3.15	3.15	2.36	2.36
			mm	53	47	22	67	80	80	60	60
20	16	5 & 7 Wire	inch	2.40	1.85	0.87	2.64	3.15	3.15	2.36	2.36
			mm	61	47	22	67	80	80	60	60
30	32	3 Wire	inch	2.48	2.20	0.87	2.80	3.15	3.15	2.36	2.36
			mm	63	56	22	71	80	80	60	60
30	32	4 Wire	inch	2.48	2.20	0.87	2.80	3.15	3.15	2.36	2.36
			mm	63	56	22	71	80	80	60	60
30	32	5 & 7 Wire	inch	2.72	2.20	0.87	2.80	3.15	3.15	2.36	2.36
			mm	69	56	22	71	80	80	60	60
60	63	5 Wire	inch	2.99	3.27	1.14	3.39	4.17	4.33	3.54	3.54
			mm	76	83	29	86	106	110	90	90

SPLASHPROOF INLETS (IP44)

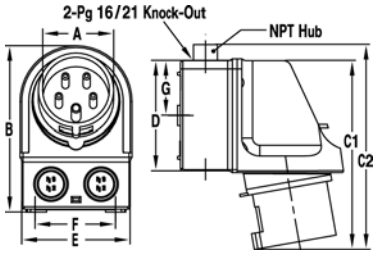
(Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C	D (max)	E	F	G	H
20	16	3 Wire	inch	1.71	2.83	3.82	1.18	2.56	2.05	2.17	1.18
			mm	43.5	72	97	30	65	52	55	30
20	16	4 Wire	inch	1.97	3.54	4.33	1.50	3.15	2.60	2.68	1.57
			mm	50	90	110	38	80	66	68	40
20	16	5 & 7 Wire	inch	2.20	3.62	4.33	1.50	3.15	2.60	2.68	1.57
			mm	56	92	110	38	80	66	68	40
30	32	3 Wire	inch	2.24	4.06	5.08	1.73	3.54	2.95	3.07	1.77
			mm	57	103	129	44	90	75	78	45
30	32	4 Wire	inch	2.24	4.06	5.08	1.73	3.54	2.95	3.07	1.77
			mm	57	103	129	44	90	75	78	45
30	32	5 & 7 Wire	inch	2.52	4.06	5.08	1.73	3.54	2.95	3.07	1.77
			mm	64	103	129	44	90	75	78	45
60	63	3, 4, & 5 Wire	inch	2.72	4.57	7.28	2.20	4.49	4.49	3.54	3.54
			mm	69	116	185	56	114	114	90	90

SPLASHPROOF INLETS (IP44)

(Surface Mount, Angled 80°)



Amps N.A.	Amps Intl.	Type		Dimensions A	B	C¹	C²	D	E	F	G	Hub Size*
20	16	4 Wire	inch	1.97	5.51	5.95	6.61	3.78	3.74	2.62	1.87	3/4"
			mm	50	140	151	168	96	95	66.5	47.5	
20	16	5 & 7 Wire	inch	2.20	5.51	5.95	6.61	3.78	3.74	2.62	1.87	3/4"
			mm	56	140	151	168	96	95	66.5	47.5	
30	32	3 Wire	inch	2.24	5.51	6.30	6.97	3.78	3.74	2.62	1.87	3/4"
			mm	57	140	160	177	96	95	66.5	47.5	
30	32	4 Wire	inch	2.24	5.51	6.30	6.97	3.78	3.74	2.62	1.87	3/4"
			mm	57	140	160	177	96	95	66.5	47.5	
30	32	5 & 7 Wire	inch	2.52	5.51	6.30	6.97	3.78	3.74	2.62	1.87	3/4"
			mm	64	140	160	177	96	95	66.5	47.5	

* North American devices supplied with NPT Hub.

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Notes