

# IP69K pin & sleeve plugs

The industry's first pin & sleeve devices that are designed to address high pressure, high temperature washdown applications

**IP69K**  
*certified*

Crouse-Hinds Series pin and sleeve devices are the industry's first to offer IP69K rated protection. Each device has been carefully engineered to offer reliability, efficiency, and added safety protection in demanding wet locations, particularly where harsh washdowns are a must!

## Pin & sleeve plugs features & benefits

Mechanical cord clamp with silicone grommet seal and locking screw ensures a positive and watertight strain relief system

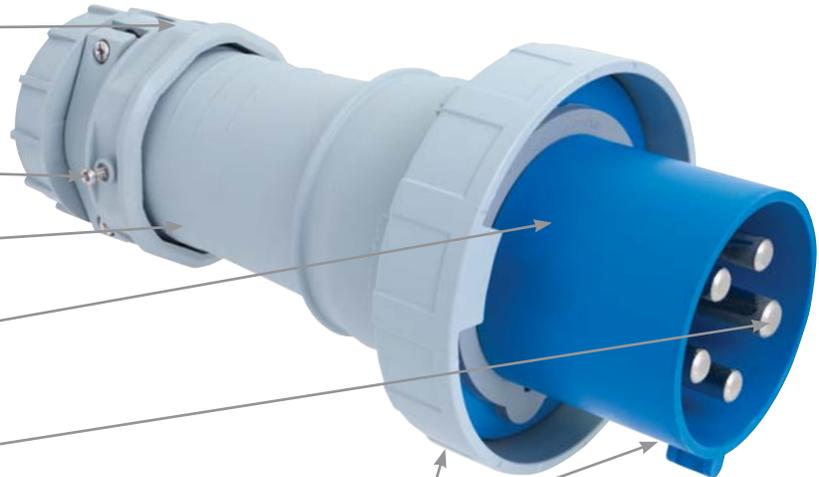
Tri-Combo Cord Grip screws for convenience

Durable impact resistant thermoplastic body

Color-coded front housing for easy and accurate identification of voltages

Oversized grounding pin assures mating only with oversized female grounding sleeve; staggered contact to ensure ground makes first and breaks last

Engineered thermoplastic material improves cold impact performance for 60A & 100A devices



Nickel plated pins offer long life corrosion protection



Threaded NPT cable entry provides efficient means of attaching flexible conduit or wire mesh grips



Pins fully shrouded for mechanical protection; lockout hole for plugs



Tapered wiring pockets to ease insertion of stranded wire; deep pockets with clear markings keep bare conductors isolated

# IP69K pin & sleeve receptacles

## Pin & sleeve receptacles features & benefits

**IP69K**  
*certified*

Spring-loaded self-closing cap with silicone gasket protects contacts when not in use. Watertight cap meets IP67 and IP69K protection standards

Rugged materials selected for use in wet locations; provides corrosion resistance

Standard mounting footprints and blind holes provide interchangeability with major brands



Individual Silicone Sealing Grommets with cord diameter range makes for faster, easier assembly



Impact-resistant thermoplastic contact carrier provides superior electrical insulation and V0 flammability rating\*



Nickel plated contacts with self-cleaning field-proven pressure bands for smooth pin insertion, low heat rise, corrosion resistance, and quality electrical performance

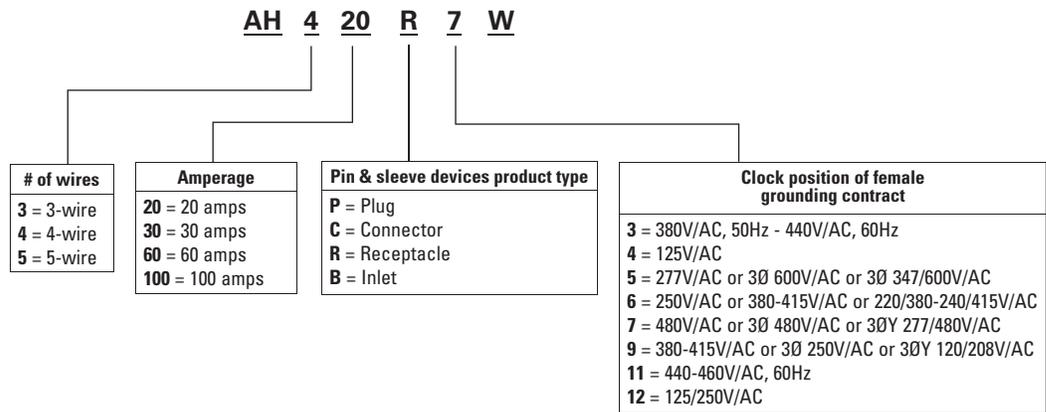
\*Does not include 20/30A Inlets

# How to order from the complete line of pin & sleeve products

## Understanding IEC 60309 pin & sleeve device and mechanical interlock catalog numbers

### Pin & sleeve devices

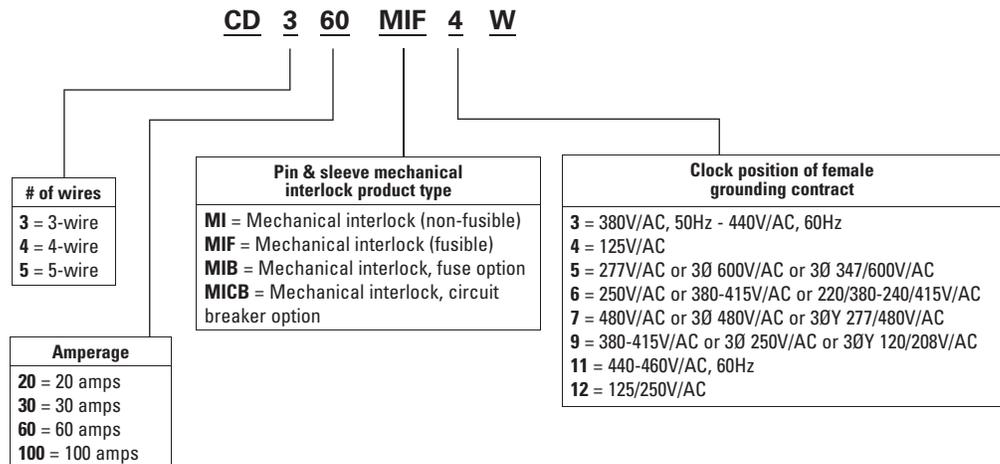
**Pin & sleeve device  
sample number:**  
**AH420P7W**



**Note:**  
Exceptions for pin & sleeve devices:  
Not every clock face position available for each pole/amp/device combo.  
Consult your Crouse-Hinds representative for details.

### Pin & sleeve mechanical interlock devices

**Pin & sleeve mechanical  
interlock device  
sample number:**  
**CD360MIF4W**



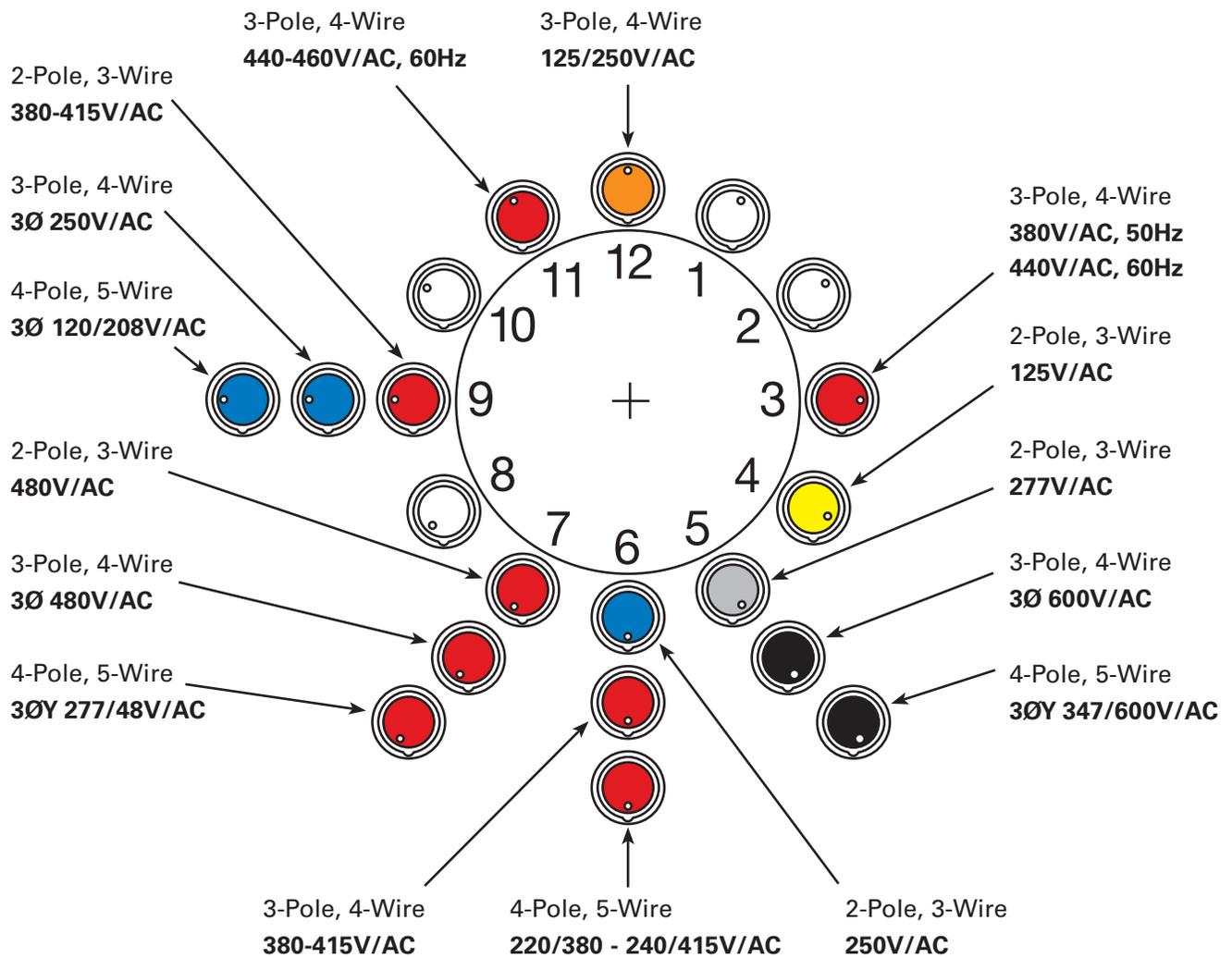
**Notes:**  
Exceptions for mechanical interlock:  
HMI available only on 20A.  
MIF available only on 30A & 60A  
MIB & MICB available only on 20A, 30A & 60A  
Not every clock face position available for each pole/amp/device combo.  
Consult your Crouse-Hinds representative for details.

# Pin and sleeve configurations

## Understanding pin & sleeve configurations

The full line of Crouse-Hinds Series pin & sleeve products meet or exceed the rigorous IEC 60309-1 and 60309-2 watertight requirements, and as such are intermateable with all other non-hazardous IEC 309 devices.

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's voltage, identify the housing color and hour location of the connector or receptacle grounding outlet.



## Examples of pin & sleeve connectors with their corresponding wiring diagrams

**AH560C9W**  
4-Pole, 5-Wire  
**3Ø 120/208V/AC**  
Wiring diagram indicating contact position

**AH4125C6W**  
3-Pole, 4-Wire  
**380-415V/AC**  
Wiring diagram indicating contact position

**AH320C4W**  
2-Pole, 3-Wire  
**125V/AC**  
Wiring diagram indicating contact position

# IEC 60309 watertight pin & sleeve devices

## Product description

North American 20A, 30A, 60A & 100A for receptacles, plugs, connectors & inlets



Receptacle



Plug



Connector



Inlet



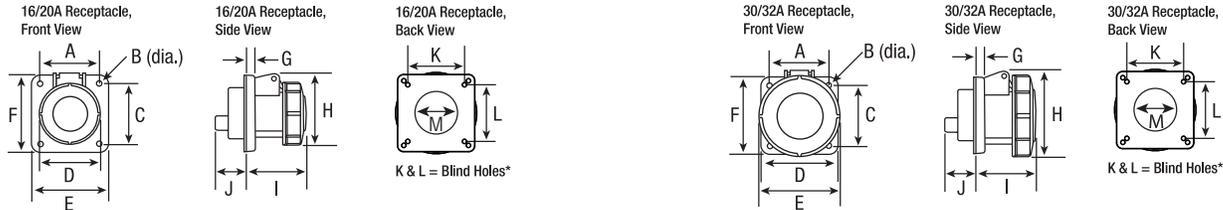
Angled Receptacle

Rating A	Poles/wires	V/AC, color coding & configurations	Receptacle catalog no.	Plug catalog no.	Connector catalog no.	Inlet catalog no.	15° Angled Receptacle catalog no.	
20	2-P, 3-W	125	AH320R4W	AH320P4W	AH320C4W	AH320B4W	—	
		250	AH320R6W	AH320P6W	AH320C6W	AH320B6W	—	
		480	AH320R7W	AH320P7W	AH320C7W	AH320B7W	—	
	3-P, 4-W	125/250	AH420R12W	AH420P12W	AH420C12W	AH420B12W	—	
		3Ø 250	AH420R9W	AH420P9W	AH420C9W	AH420B9W	—	
		3Ø 480	AH420R7W	AH420P7W	AH420C7W	AH420B7W	—	
		3Ø 600	AH420R5W	AH420P5W	AH420C5W	AH420B5W	—	
	4-P, 5-W	3ØY 120/208	AH520R9W	AH520P9W	AH520C9W	AH520B9W	—	
		3ØY 277/480	AH520R7W	AH520P7W	AH520C7W	AH520B7W	—	
		3ØY 347/600	AH520R5W	AH520P5W	AH520C5W	AH520B5W	—	
	30	2-P, 3-W	125	AH330R4W	AH330P4W	AH330C4W	AH330B4W	—
			250	AH330R6W	AH330P6W	AH330C6W	AH330B6W	—
480			AH330R7W	AH330P7W	AH330C7W	AH330B7W	—	
3-P, 4-W		125/250	AH430R12W	AH430P12W	AH430C12W	AH430B12W	—	
		3Ø 250	AH430R9W	AH430P9W	AH430C9W	AH430B9W	—	
		3Ø 480	AH430R7W	AH430P7W	AH430C7W	AH430B7W	—	
		3Ø 600	AH430R5W	AH430P5W	AH430C5W	AH430B5W	—	
4-P, 5-W		3ØY 120/208	AH530R9W	AH530P9W	AH530C9W	AH530B9W	—	
		3ØY 277/480	AH530R7W	AH530P7W	AH530C7W	AH530B7W	—	
		3ØY 347/600	AH530R5W	AH530P5W	AH530C5W	AH530B5W	—	
60		2-P, 3-W	125	AH360R4W	AH360P4W	AH360C4W	AH360B4W	—
			250	AH360R6W	AH360P6W	AH360C6W	AH360B6W	—
	480		AH360R7W	AH360P7W	AH360C7W	AH360B7W	—	
	3-P, 4-W	125/250	AH460R12W	AH460P12W	AH460C12W	AH460B12W	—	
		3Ø 250	AH460R9W	AH460P9W	AH460C9W	AH460B9W	—	
		3Ø 480	AH460R7W	AH460P7W	AH460C7W	AH460B7W	—	
		3Ø 600	AH460R5W	AH460P5W	AH460C5W	AH460B5W	—	
	4-P, 5-W	3ØY 120/208	AH560R9W	AH560P9W	AH560C9W	AH560B9W	AH560R9W-15	
		3ØY 277/480	AH560R7W	AH560P7W	AH560C7W	AH560B7W	—	
		3ØY 347/600	AH560R5W	AH560P5W	AH560C5W	AH560B5W	—	
	100	2-P, 3-W	125	AH3100R4W	AH3100P4W	AH3100C4W	AH3100B4W	—
			250	AH3100R6W	AH3100P6W	AH3100C6W	AH3100B6W	—
480			AH3100R7W	AH3100P7W	AH3100C7W	AH3100B7W	—	
3-P, 4-W		125/250	AH4100R12W	AH4100P12W	AH4100C12W	AH4100B12W	AH4100R12W-15	
		3Ø 250	AH4100R9W	AH4100P9W	AH4100C9W	AH4100B9W	—	
		3Ø 480	AH4100R7W	AH4100P7W	AH4100C7W	AH4100B7W	AH4100R7W-15	
		3Ø 600	AH4100R5W	AH4100P5W	AH4100C5W	AH4100B5W	—	
4-P, 5-W		3ØY 120/208	AH5100R9W	AH5100P9W	AH5100C9W	AH5100B9W	AH5100R9W-15	
		3ØY 277/480	AH5100R7W	AH5100P7W	AH5100C7W	AH5100B7W	AH5100R7W-15	
		3ØY 347/600	AH5100R5W	AH5100P5W	AH5100C5W	AH5100B5W	—	

# Dimensional information

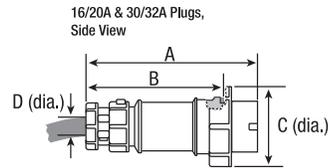
**Table 1. 16/20A & 30/32A Receptacles**

Family	A	B	C	D	E	F	G	H	I	J	K	L	M
<b>16/20A</b> <b>2-P, 3-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	2.98" (7.57cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (.8cm)	3.15" (8cm)	2.15" (5.47cm)	1.25" (3.18cm)	2.74" (6.96cm)	2.74" (6.96cm)	1.69" (4.29cm)
<b>16/20A</b> <b>3-P, 4-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.28" (8.33cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (.8cm)	3.38" (8.58cm)	2.18" (5.54cm)	1.25" (3.18cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.01" (5.12cm)
<b>16/20A</b> <b>4-P, 5-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.66" (9.3cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (.8cm)	3.66" (9.3cm)	2.27" (5.77cm)	1.25" (3.18cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.09" (5.3cm)
<b>30/32A</b> <b>2-P, 3-W</b> <b>&amp; 3-P, 4-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.97" (10cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (.8cm)	3.91" (9.92cm)	2.64" (6.7cm)	1.57" (4.0cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.24" (5.69cm)
<b>30/32A</b> <b>4-P, 5-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	4.22" (10.7cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (.8cm)	4.13" (10.5cm)	2.64" (6.7cm)	1.57" (4.0cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.47" (6.27cm)



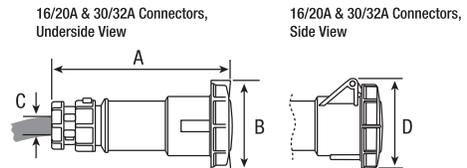
**Table 2. 16/20A & 30/32A Plugs**

Family	A	B	C	D (cord dia.)	Threaded Entry (NPT)
<b>16/20A</b> <b>2-P, 3-W</b>	6.08" (15.44cm)	4.65" (11.8cm)	2.98" (7.57cm)	0.333-0.775" (0.85-1.97cm)	0.75" (1.91cm)
<b>16/20A</b> <b>3-P, 4-W</b>	6.14" (15.6cm)	4.70" (11.94cm)	3.28" (8.33cm)	0.333-0.775" (0.85-1.97cm)	0.75" (1.91cm)
<b>16/20A</b> <b>4-P, 5-W</b>	6.24" (15.85cm)	4.81" (12.22cm)	4.18" (10.6cm)	0.433-0.84" (1.10-2.13cm)	1.0" (2.54cm)
<b>30/32A</b> <b>2-P, 3-W &amp; 3-P, 4-W</b>	7.32" (18.6cm)	5.53" (14.05cm)	3.85" (9.78cm)	0.433-0.985" (1.10-2.5cm)	1.0" (2.54cm)
<b>30/32A</b> <b>4-P, 5-W</b>	7.46" (18.95cm)	5.67" (14.4cm)	4.17" (10.6cm)	0.433-1.15" (1.10-2.92cm)	1.25" (3.18cm)



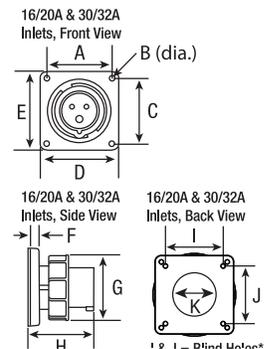
**Table 3. 16/20A & 30/32A Connectors**

Family	A	B	C (cord dia.)	D	Threaded Entry (NPT)
<b>16/20A</b> <b>2-P, 3-W</b>	6.91" (17.56cm)	2.98" (7.57cm)	0.333-0.775" (0.85-1.97cm)	3.13" (7.96cm)	0.75" (1.91cm)
<b>16/20A</b> <b>3-P, 4-W</b>	6.89" (17.49cm)	3.28" (8.33cm)	0.333-0.775" (0.85-1.97cm)	3.37" (8.56cm)	0.75" (1.91cm)
<b>16/20A</b> <b>4-P, 5-W</b>	7.19" (18.27cm)	3.66" (8.33cm)	0.433-0.84" (1.10-2.13cm)	3.66" (9.3cm)	1.0" (2.54cm)
<b>30/32A</b> <b>2-P, 3-W &amp; 3-P, 4-W</b>	8.55" (22.72cm)	3.97" (10.1cm)	0.433-0.985" (1.10-2.5cm)	3.89" (9.89cm)	1.0" (2.54cm)
<b>30/32A</b> <b>4-P, 5-W</b>	8.74" (22.19cm)	4.22" (10.7cm)	0.433-1.15" (1.10-2.92cm)	4.13" (10.49cm)	1.25" (3.18cm)



**Table 4. 16/20A & 30/32A Inlets**

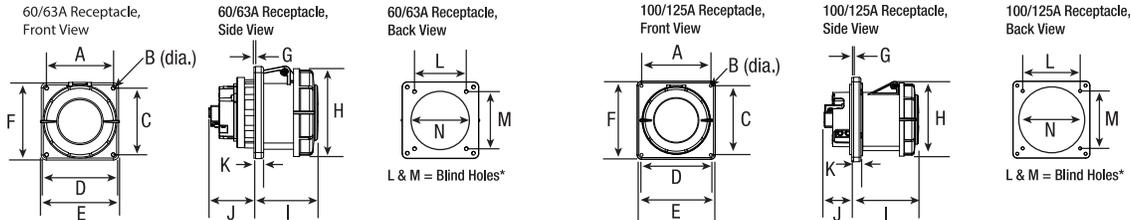
Family	A	B	C	D	E	F	G	H	I	J	K
<b>16/20A</b> <b>2-P, 3-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (0.8cm)	2.76" (7cm)	2.75" (6.99cm)	2.74" (6.96cm)	2.74" (6.96cm)	1.52" (3.86cm)
<b>16/20A</b> <b>3-P, 4-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (0.8cm)	3.06" (7.77cm)	2.75" (6.99cm)	2.74" (6.96cm)	2.74" (6.96cm)	1.74" (4.42cm)
<b>16/20A</b> <b>4-P, 5-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (0.8cm)	3.45" (8.76cm)	2.75" (6.99cm)	2.74" (6.96cm)	2.74" (6.96cm)	1.96" (4.98cm)
<b>30/32A</b> <b>2-P, 3-W &amp; 3-P, 4-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (0.8cm)	3.68" (9.35cm)	3.4" (8.64cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.0" (5.08cm)
<b>30/32A</b> <b>4-P, 5-W</b>	3.125" (7.94cm)	0.21" (0.54cm)	3.125" (7.94cm)	3.75" (9.52cm)	3.75" (9.52cm)	0.315" (0.8cm)	3.94" (10cm)	3.4" (8.64cm)	2.74" (6.96cm)	2.74" (6.96cm)	2.22" (5.64cm)



# Dimensional information

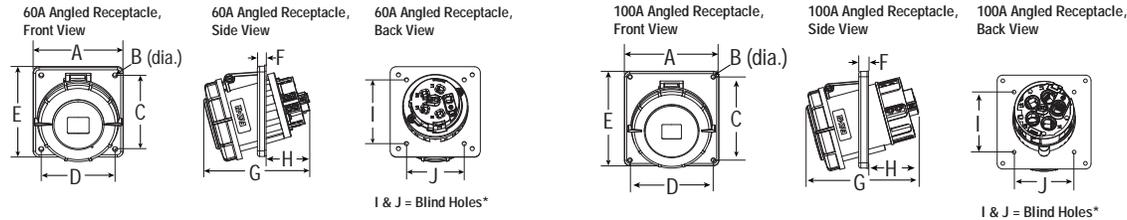
**Table 5. 60/63A & 100/125A Receptacles**

Family	A	B	C	D	E	F	G	H	I	J	K	L	M	N
<b>60/63 Amp</b>	3.88" (9.8cm)	0.21" (0.54cm)	3.88" (9.8cm)	4.5" (11.4cm)	4.6" (11.7cm)	4.5" (11.4cm)	0.079" (0.2cm)	4.42" (11.2cm)	3.02" (7.68cm)	2.3" (5.8cm)	0.39" (1cm)	3.03" (7.70cm)	3.35" (8.51cm)	3.35" (8.5cm)
<b>100/125 Amp</b>	4.87" (12.4cm)	0.21" (0.54cm)	4.87" (12.4cm)	5.5" (14cm)	5.11" (13cm)	5.5" (14cm)	0.12" (0.3cm)	4.86" (12.3cm)	4.20" (10.7cm)	1.93" (4.9cm)	0.47" (1.2cm)	4.10" (10.4cm)	4.10" (10.4cm)	4.57" (11.6cm)



**Table 6. 60A & 100A Angled Receptacles**

Family	A	B	C	D	E	F	G	H	I	J
<b>60 Amp</b>	4.69" (119.2mm)	0.21" (5.3mm)	3.87" (98.4mm)	3.87" (98.4mm)	4.69" (119.2mm)	.45" (11.5mm)	5.49" (139.5mm)	2.26" (57.3mm)	3.35" (85.1mm)	3.03" (77mm)
<b>100 Amp</b>	5.5" (139.6mm)	0.21" (5.3mm)	4.87" (123.7mm)	4.87" (123.7mm)	5.5" (139.6mm)	.55" (14.0mm)	6.35" (161.3mm)	2.85" (72.4mm)	3.54" (90.0mm)	3.54" (90.0mm)

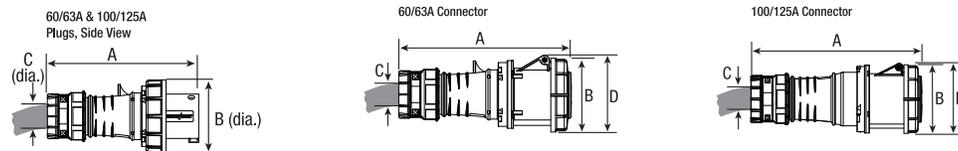


**Table 7. 60/63A & 100/125A Plugs**

Family	A	B	C (cord dia.)	Threaded Entry (NPT)
<b>60/63 Amp</b>	9.26" (23.52cm)	4.45" (11.29cm)	0.66-1.50" (1.68-3.81cm)	1.5" (3.81cm)
<b>100/125 Amp</b>	11.16" (28.35cm)	5.17" (13.14cm)	0.97-1.94" (2.46-5.00cm)	2.0" (5.08cm)

**Table 8. 60/63A & 100/125A Connectors**

Family	A	B	C (cord dia.)	D	Threaded Entry (NPT)
<b>60/63 Amp</b>	10" (25.39cm)	4.29" (10.9cm)	0.66-1.5" (1.68-3.81cm)	4.43" (11.25cm)	1.5" (3.81cm)
<b>100/125 Amp</b>	11.83" (30.04cm)	4.76" (12.1cm)	0.97-1.94" (2.46-4.93cm)	4.86" (12.34cm)	2.0" (5.08cm)



**Table 9. 60/63A & 100/125A Inlets**

Family	A	B	C	D	E	F	G	H	I	J	K	L	M	N
<b>60/63 Amp</b>	3.875" (9.84 cm)	0.21" (0.54cm)	3.88" (9.84 cm)	4.5" (11.4 cm)	4.5" (11.4 cm)	0.39" (1cm)	4.45" (11.30 cm)	3.25" (8.26cm)	1.52" (3.87 cm)	3.88" (9.84 cm)	3.88" (9.84 cm)	2.88" (7.32 cm)	3.54" (8.99 cm)	3.54" (8.99 cm)
<b>100/125 Amp</b>	4.87" (12.4cm)	0.21" (0.54 cm)	4.87" (12.4 cm)	5.5" (14cm)	5.5" (14cm)	0.47" (1.2 cm)	5.17" (13.1cm)	4" (10.2 cm)	1.38" (3.51 cm)	4.87" (12.4 cm)	4.87" (12.4 cm)	3.66" (9.3 cm)	4.10" (10.41 cm)	4.10" (10.41 cm)

