

IP69K pin & sleeve plugs

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

Arrow Hart's pin and sleeve devices are unlike other brands - our 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

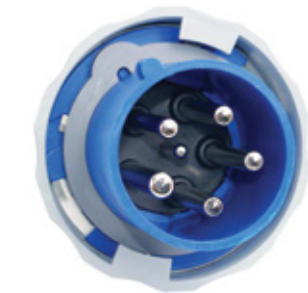
Oversized grounding pin assures mating only with oversized female grounding sleeve; staggered contact to ensure ground makes first and breaks last

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

IP69K
certified

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



Compliances, specifications and availability are subject to change without notice.

Pin & sleeve receptacles features & benefits

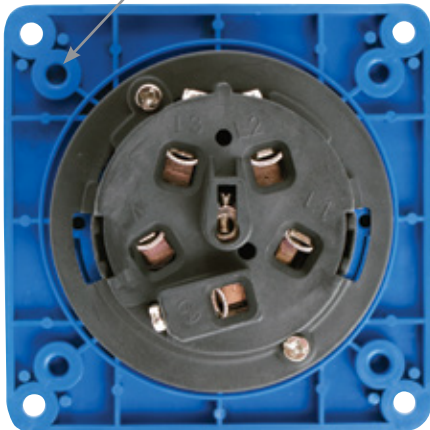
Spring-loaded self-closing cap with silicone gasket protects contacts when not in use. Watertight cap meets IP67 and IP69K protection standards

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

Standard mounting footprints and blind holes provide interchangeability with major brands



IP69K
certified



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*

*Does not include 20/30A inlets



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

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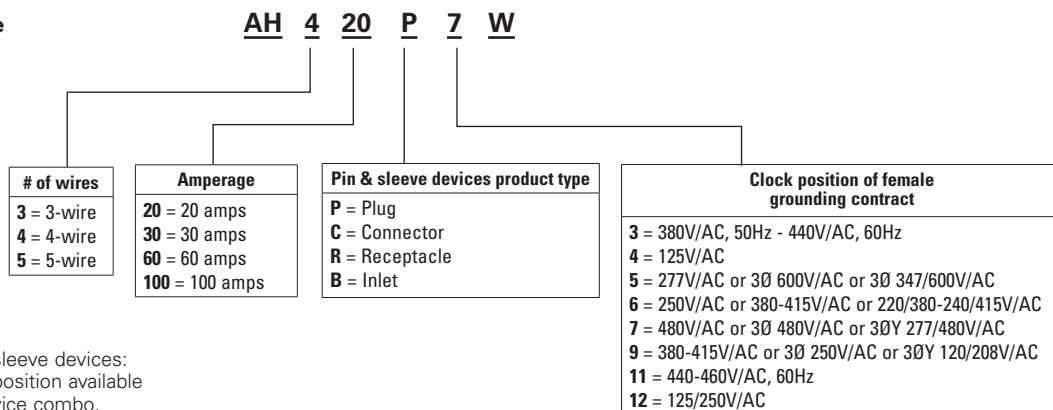
www.eaton.com
www.eaton.com/arrowhart

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

Understanding IEC 309 pin & sleeve device and mechanical interlock catalog numbers

Pin & sleeve devices

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

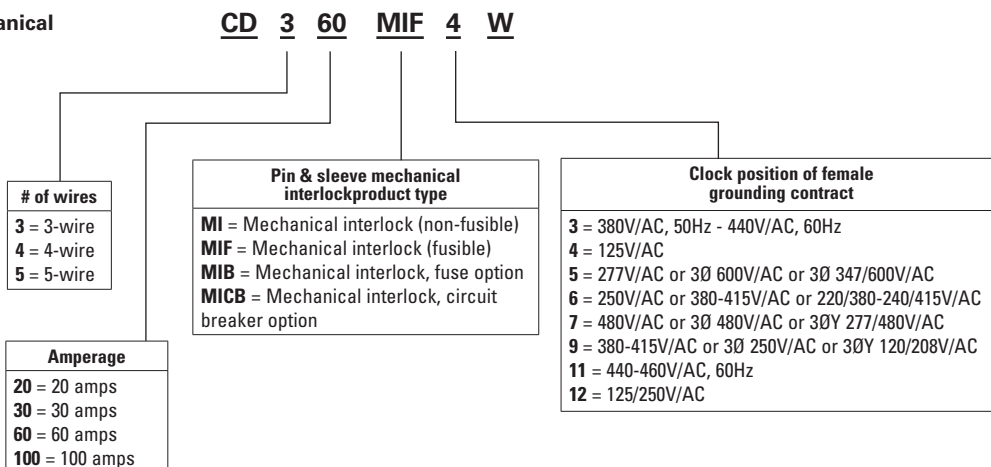


Note:

Exceptions for pin & sleeve devices:
Not every clock face position available
for each pole/amp/device combo.
Consult your Eaton wiring devices
representative for details.

Pin & sleeve mechanical interlock devices

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



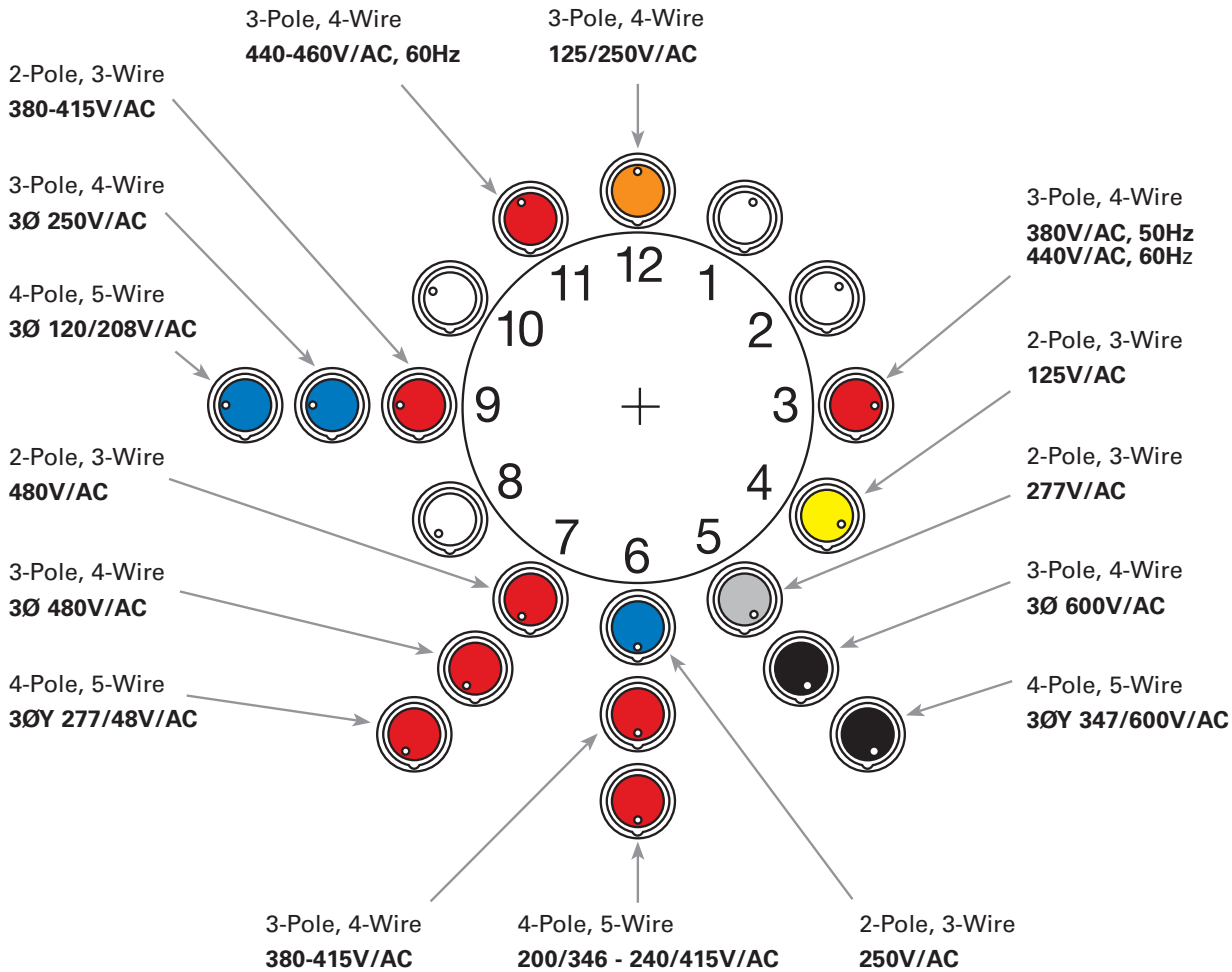
Note:

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 Eaton wiring devices
representative for details.

Understanding pin & sleeve configurations

Arrow Hart's full line of pin & sleeve products meet or exceed the rigorous IEC 309-1 and 309-2 watertight requirements, and as such are interchangeable 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



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www.eaton.com
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IEC 309 watertight pin & sleeve devices

Product description

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



Receptacle



Plug



Connector



Inlet



AH560R9W-5

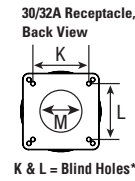
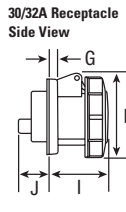
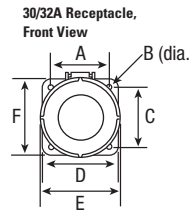
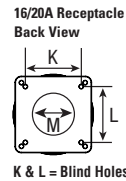
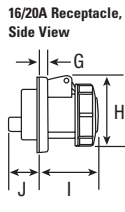
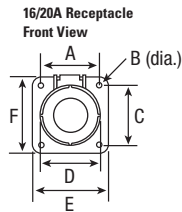
Rating A	Poles/ wires	V/AC, color coding & configurations	Receptacle catalog no.	Plug catalog no.	Connector catalog no.	Inlet catalog no.	15° Angled Receptacle catalog no.
20	2-P, 3-W	125	AH320R4W	AH320P4W	AH320C4W	AH320B4W	—
		250	AH320R6W	AH320P6W	AH320C6W	AH320B6W	—
		480	AH320R7W	AH320P7W	AH320C7W	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	—

Compliances, specifications and availability are subject to change without notice.

16/20A & 30/32A receptacles, plugs, connectors & inlets

16/20A & 30/32A receptacles

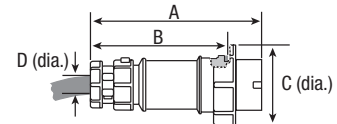
Family	A	B	C	D	E	F	G	H	I	J	K	L	M
16/20A	3.125"	0.21"	3.125"	2.98"	3.75"	3.75"	0.315"	3.15"	2.15"	1.25"	2.74"	2.74"	1.69"
2-P, 3-W	(7.94cm)	(0.54cm)	(7.94cm)	(7.57cm)	(9.52cm)	(9.52cm)	(.8cm)	(8cm)	(5.47cm)	(3.18cm)	(6.96cm)	(6.96cm)	(4.29cm)
16/20A	3.125"	0.21"	3.125"	3.28"	3.75"	3.75"	0.315"	3.38"	2.18"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



16/20A & 30/32A plugs

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

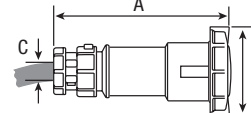
16/20A & 30/32A Plugs, Side View



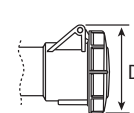
16/20A & 30/32A connectors

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

16/20A & 30/32A Connectors Underside View

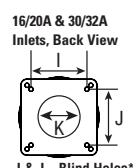
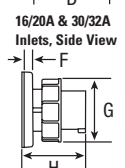
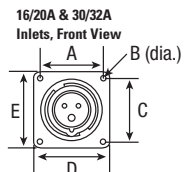


16/20A & 30/32A Connectors, Side View



16/20A & 30/32A inlets

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

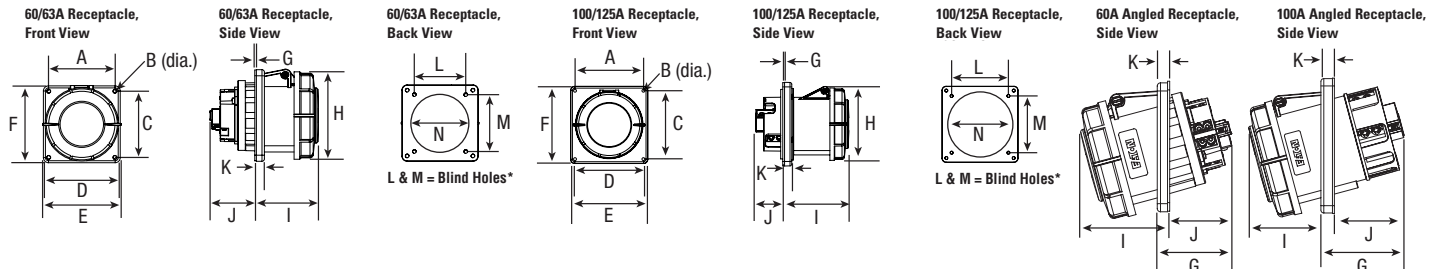


*Blind holes can be drilled out to mount to previous versions of Arrow Hart back boxes.
Compliances, specifications and availability are subject to change without notice.

60/63A & 100/125A receptacles, plugs, connectors & inlets

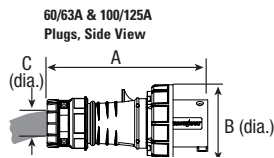
60/63A & 100/125A receptacles

Family	A	B	C	D	E	F	G	H	I	J	K	L	M	N
60/63A	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)
100/125A	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)
60A angled	3.88" (9.8cm)	0.21" (0.54cm)	3.88" (9.8cm)	4.6" (11.7cm)	4.7" (11.9cm)	4.7" (11.9cm)	0.079" (0.2cm)		3.23" (8.2cm)	2.3" (5.8cm)	0.37" (1.1cm)	3.03" (7.70cm)	3.35" (8.51cm)	3.35" (8.5cm)
100A angled	4.87" (12.4cm)	0.21" (0.54cm)	4.87" (12.4cm)	5.5" (14cm)	5.5" (14cm)	5.5" (14cm)	0.12" (0.3cm)		3.5" (8.9cm)	2.05" (5.2cm)	0.43" (1.09cm)	3.54" (8.9cm)	3.54" (8.9cm)	4.57" (11.6cm)



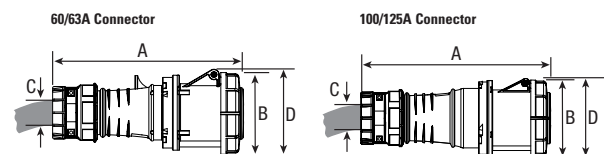
60/63A & 100/125A plugs

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



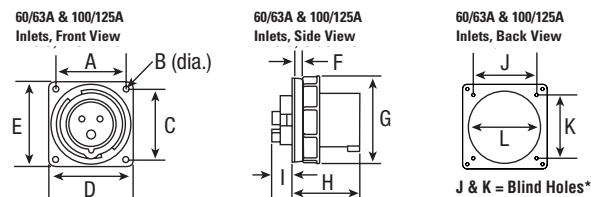
60/63A & 100/125A connectors

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



60/63A & 100/125A inlets

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



Compliances, specifications and availability are subject to change without notice.

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Pin & sleeve and mechanical interlock configurations

North American Standard Amp Rating

Poles, wires	Rating	60A watertight pin & sleeve		100A watertight pin & sleeve	
		Receptacle, connector & mechanical interlocks	Plug & inlet	Receptacle, connector & mechanical interlocks	Plug & inlet
2-pole, 3-wire grounding	125V	AH360R4W  AH360C4W 	AH360P4W  AH360B4W 	CD3100MI4W   AH3100R4W  AH3100C4W 	AH3100P4W  AH3100B4W 
	250V	CD360MI6W   CD360MIF6W   AH360R6W  AH360C6W 	AH360P6W  AH360B6W 	CD3100MI6W   AH3100R6W  AH3100C6W 	AH3100P6W  AH3100B6W 
	480V/AC	CD360MI7W   AH360R7W  AH360C7W 	AH360P7W  AH360B7W 	CD3100MI7W   AH3100R7W  AH3100C7W 	AH3100P7W  AH3100B7W 
3-pole, 4-wire grounding	125/250V/AC	CD460MI12W   CD460MIB12W   CD460MICB12W   CD460MIF12W   AH460R12W  AH460C12W 	AH460P12W  AH460B12W 	CD4100MI12W   AH4100R12W  AH4100C12W  AH4100R12W-15  	AH4100P12W  AH4100B12W 
	3Ø 250V/AC	CD460MI9W   CD460MIB9W   CD460MICB9W   CD460MIF9W   AH460R9W  AH460C9W 	AH460P9W  AH460B9W 	CD4100MI9W   AH4100R9W  AH4100C9W 	AH4100P9W  AH4100B9W 
	3Ø 480V/AC	CD460MI7W   CD460MIB7W   CD460MICB7W   CD460MIF7W   AH460R7W  AH460C7W 	AH460P7W  AH460B7W 	CD4100MI7W   AH4100R7W  AH4100C7W  AH4100R7W-15  	AH4100P7W  AH4100B7W 
	3Ø 600V/AC	CD460MI5W   CD460MIB5W   CD460MICB5W   CD460MIF5W   AH460R5W  AH460C5W 	AH460P5W  AH460B5W 	CD4100MI5W   AH4100R5W  AH4100C5W 	AH4100P5W  AH4100B5W 
4-pole, 5-wire grounding	3ØY 120/208V/AC	CD560MI9W   CD560MIB9W   CD560MICB9W   CD560MIF9W   AH560R9W  AH560C9W  AH560R9W-15  	AH560P9W  AH560B9W 	CD5100MI9W   AH5100R9W  AH5100C9W  AH5100R9W-15  	AH5100P9W  AH5100B9W 
	3ØY 277/480V/AC	CD560MI7W   CD560MIB7W   CD560MICB7W   CD560MIF7W   AH560R7W  AH560C7W 	AH560P7W  AH560B7W 	CD5100MI7W   AH5100R7W  AH5100C7W  AH5100R7W-15  	AH5100P7W  AH5100B7W 
	3ØY 347/600V/AC	CD560MI5W   CD560MIF5W   AH560R5W  AH560C5W 	AH560P5W  AH560B5W 	CD5100MI5W   AH5100R5W  AH5100C5W 	AH5100P5W  AH5100B5W 

Locking device legend: How to use the chart

Core catalog number color indicates a device's grade:

BLACK = Industrial specification grade

A suffix combining a **RED** shape and alpha letter indicate a device's body, type and available options.

Device body:

 Single receptacle
 Plug
 Connector

 Flanged inlet
 Mechanical interlock

Open shape has holes (receptacles, connectors, outlets)
Closed shape has blades (plugs, inlets)

Device type:

A Angled
B Circuit breaker option
E Fusible

F Fuse option
Q Non-fusible

X Horizontal