

## Locking device families

### The industry's most complete line of locking industrial devices

Arrow Hart offers the most rugged, feature-rich, broadest line of quality locking devices to meet the specific needs of demanding industrial applications



#### Locking devices

The widest range of NEMA and non-NEMA devices, designed and built with superior materials for long lasting performance.



#### 50A locking devices

Rugged pro grip, armored and marine grade 50A locking devices are ideal for harsh construction and industrial applications.



#### Power lock devices

Power lock devices offer a positive engagement single-post design in rugged nylon or armored shell housings for reliable service.



#### Flat cable devices

Flat cable plugs & connectors are designed specifically for 4-pole, 5-wire flat cable applications in convention and exhibit halls or other high-traffic flat-cable environments.



See Section D for a complete line of watertight, severe-duty and corrosion resistant locking devices.

## Industrial grade 20A locking devices

## Product description

2-pole, 3-wire grounding  
20A, 277V/AC  
NEMA L7-20



L7-20R



L7-20P

## Industrial grade plugs &amp; connectors



Rating A	V/AC	NEMA	Description	Cord diameter	Color	Plug catalog no.	Connector catalog no.		
20	277	L7-20	Ultra grip straight body	0.38-1.00" (9.5-25.4mm)	BK & W	□ AHL720P	□ AHL720C		

## Industrial grade receptacles



Rating A	V/AC	NEMA	Description	Color	Single receptacle		
20	277	L7-20	Standard industrial	BK	□ AHL720R		
			Isolated ground	RN	□ IGL720R*		

\*Not Fed Spec

## Industrial grade flanged inlets &amp; outlets



Rating A	V/AC	NEMA	Description	Color	Flanged inlet	Flanged outlet		
20	277	L7-20	Standard industrial	BK	□ AHL720FI	—		
			Standard industrial	BK & W	—	□ AHL720FO <sup>1</sup>		

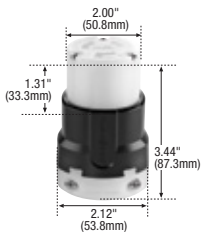
<sup>1</sup>Only UL Listed & CSA certified

## Accessories for NEMA L7-20 locking devices

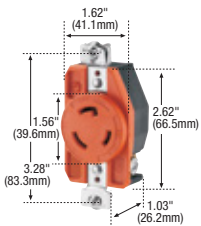
Description	Catalog no.		
Neoprene weather protective boot for 20/30A, 3-W locking plug	□ BM1		
Neoprene weather protective boot for 20/30A, 3-W locking connector	□ BM2		
Diecast aluminum single receptacle cover, vertical mount, for FS/FD boxes	□ 7420		



AHL720P



AHL720C



IGL720R



AHL720FO



BM1



BM2



7420

**Dimensional information:**  
C-76-C-78

**Plug & connector specification information:**  
L7-20: C-84

**Receptacle specification information:**  
L7-20: C-87

Isolated ground L7-20: C-87

**Flanged inlet & flanged outlet specification information:**  
L7-20: C-89

## Color information:

BK (Black), RN (Orange), W (White)

<b>BK</b>	<b>RN</b>	<b>W</b>
(Black)	(Orange)	(White)

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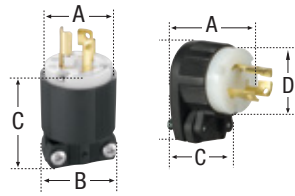
Indicates NAFTA compliant - Page Q-32

RoHS compliant - Page Q-32

## Locking device dimensional data

### 15A, 10/15A locking devices

#### Safety grip plugs



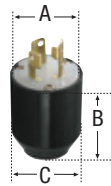
Family	A	B	C	D	Cord diameter
NEMA L2-20	1.37" (34.8mm)	1.50" (38.1mm)	2.06" (52.3mm)	—	0.33-0.66" (8.4-16.7mm)
15A & 10/15A locking	1.37" (34.8mm)	1.50" (38.1mm)	2.06" (52.3mm)	—	0.33-0.66" (8.4-16.7mm)
15A locking angled	1.28" (32.5mm)	1.47" (37.3mm)	1.50" (38.1mm)	2.06" (52.3mm)	0.33-0.66" (8.4-16.7mm)

#### Safety grip connectors



Family	A	B	C	D	Cord diameter
NEMA L2-20	1.37" (34.8mm)	2.88" (73.0mm)	1.50" (38.1mm)	1.00" (25.4mm)	0.33-0.66" (8.4-16.7mm)
15A & 10/15A locking	1.37" (34.8mm)	2.88" (73.0mm)	1.50" (38.1mm)	1.00" (25.4mm)	0.33-0.66" (8.4-16.7mm)

#### Auto grip plugs



Family	A	B	C	Cord dia.
15A & 10/15A locking	1.38" (34.9mm)	1.83" (46.5mm)	1.52" (38.6mm)	0.33-0.66" (8.4-16.7mm)

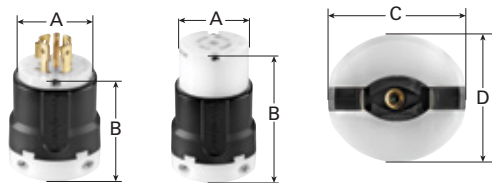
#### Auto grip connectors



Family	A	B	C	Cord dia.
15A & 10/15A locking	1.38" (34.9mm)	1.83" (46.5mm)	1.52" (38.6mm)	0.33-0.66" (8.4-16.7mm)

#### Ultra grip locking plugs & connectors

Family	A	B	C	D	Cord diameter
Ultra grip plug, 2P-3W, 3P-3W	1.78" (45.2mm)	2.59" (65.8mm)	2.23" (56.6mm)	2.10" (53.3mm)	0.38-1.00" (9.6 - 25.4mm)
Ultra grip plug, 3P-4W, 4P-4W, 4P-5W	1.97" (55.4mm)	2.82" (71.6mm)	2.13" (54.1mm)	2.30" (58.4mm)	0.38-1.16" (9.6 - 29.5mm)
Ultra grip connector, 2P-3W, 3P-3W	1.78" (45.2mm)	3.61" (91.7mm)	2.23" (56.6mm)	2.10" (53.3mm)	0.38-1.00" (9.6 - 25.4mm)
Ultra grip connector, 3P-4W, 4P-4W, 4P-5W	1.97" (50.0mm)	3.84" (97.5mm)	2.46" (62.5mm)	2.30" (58.4mm)	0.38-1.16" (9.6 - 29.5mm)



# Locking devices specification & performance data

## Industrial grade 15A, 20A & 30A locking plugs & connectors

### Product description

2-pole, 3-wire grounding; 3-pole, 3-wire non-grounding;  
3-pole, 4-wire grounding; 4-pole, 4-wire non-grounding;  
4-pole, 5-wire grounding

**20A & 30A ultra grip plugs & connectors:** L6-20, L7-20, L8-20, L6-30, L7-30, L10-20, L14-20, L15-20, L16-20, L14-30, L15-30, L16-30, L17-30, L19-20, L20-20, L19-30, L20-30, L23-20, L23-30, Non-NEMA 20A, Non-NEMA 30A, Non-NEMA 20/10A

Device type	15A safety grip & auto grip plugs & connectors: NEMA L5-15, L6-15, L7-15	15A safety grip & auto grip plugs & connectors: Non-NEMA 10/15A	20A & 30A ultra grip plugs & connectors: L6-20, L7-20, L8-20, L6-30, L7-30, L10-20, L14-20, L15-20, L16-20, L14-30, L15-30, L16-30, L17-30, L19-20, L20-20, L19-30, L20-30, L23-20, L23-30, Non-NEMA 20A, Non-NEMA 30A, Non-NEMA 20/10A
<b>Wiring type</b>	Side wire	Back wire	Back wire
<b>Testing &amp; code compliance</b>	<ul style="list-style-type: none"> <li>cULus Listed to UL498, file no. E3663</li> <li>UL verified to Fed Spec WC-596F</li> <li>cUL Listed to CSA C22.2, no. 42 file no. E3663</li> </ul>	<ul style="list-style-type: none"> <li>UL recognized component for US &amp; Canada, file no. E3663</li> </ul>	<ul style="list-style-type: none"> <li>cULus Listed to UL498, file no. E3663</li> </ul>
<b>Environmental specifications</b>	<b>Flammability:</b> Meets UL94 requirements, V0 rated <b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)	<b>Flammability:</b> Meets UL94 requirements, V2 rated <b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)	<b>Flammability:</b> Meets UL94 requirements, V2 rated <b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)
<b>Electrical specifications</b>	<b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498 <b>Current interrupting:</b> Yes, at full-rated current <b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload	<b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498 <b>Current interrupting:</b> Yes, at full-rated current <b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload	<b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498 <b>Current interrupting:</b> Yes, at full-rated current <b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload
<b>Mechanical specifications</b>	<b>Terminal accommodation:</b> #16 - #12 AWG  <b>Voltage ratings:</b> Permanently marked on device	<b>Terminal accommodation:</b> #16 - #12 AWG  <b>Voltage ratings:</b> Permanently marked on device	<b>Terminal accommodation:</b> #16 - #8 AWG, except isolated ground: #14 - #8 AWG <b>Voltage ratings:</b> Permanently marked on device
<b>Materials</b>	<b>Outer shell:</b> Safety grip: nylon; auto grip: phenolic <b>Interior body:</b> Safety grip: nylon; auto grip: phenolic <b>Terminal retainer:</b> Polycarbonate <b>Blades:</b> Brass <b>Line contacts:</b> Brass <b>Terminal clamps:</b> Steel, zinc plated <b>Terminal screws:</b> Brass  <b>Ground screw:</b> Brass <b>Assembly screws:</b> Steel, zinc plated <b>Gasket/dust shield:</b> Neoprene <b>Cord clamp screws:</b> Steel, zinc plated <b>Cord clamp:</b> Steel, zinc plated	<b>Outer shell:</b> Nylon <b>Interior body:</b> Nylon <b>Terminal retainer:</b> Polycarbonate <b>Blades:</b> Brass <b>Line contacts:</b> Brass <b>Terminal clamps:</b> Steel, zinc plated <b>Terminal screws:</b> Brass  <b>Ground screw:</b> Brass <b>Assembly screws:</b> Steel, zinc plated <b>Gasket/dust shield:</b> Neoprene <b>Cord clamp screws:</b> Steel, zinc plated <b>Cord clamp:</b> Steel, zinc plated	<b>Outer shell:</b> Nylon <b>Interior body:</b> Nylon <b>Terminal retainer:</b> Polycarbonate <b>Blades:</b> Brass <b>Line contacts:</b> Connectors: zinc plated <b>Terminal clamps:</b> Steel <b>Terminal screws:</b> #10-32 brass, neutral screw nickel plated <b>Ground screw:</b> #10-32 brass, green <b>Assembly screws:</b> Steel, zinc plated <b>Gasket/dust shield:</b> Neoprene <b>Cord clamp screws:</b> Steel, zinc plated <b>Cord clamp:</b> Nylon

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