

## 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



#### Hart lock locking devices

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



#### Hart lock 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.



#### Hart lock flat cable devices

Hart lock 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.



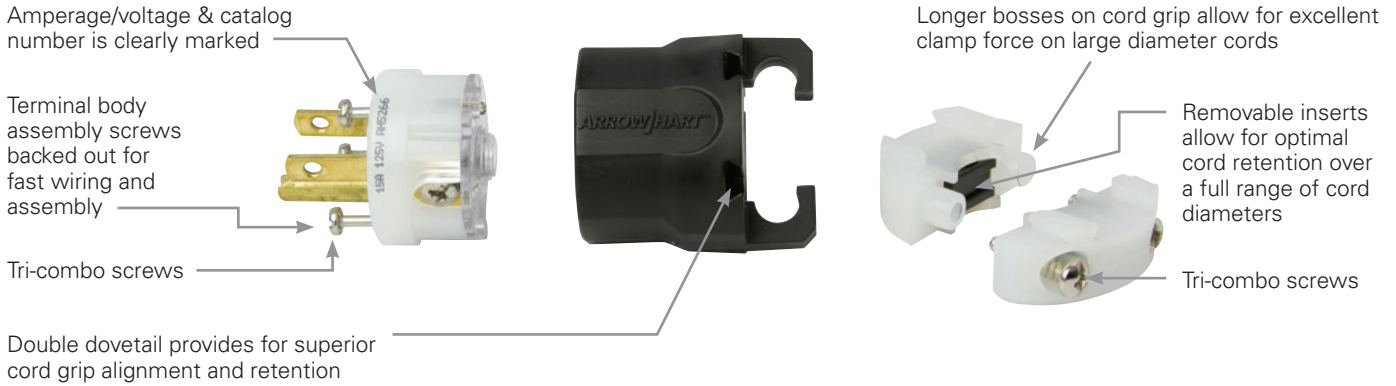
See Section D for a complete line of watertight, severe-duty and corrosion resistant locking devices.

# Industrial grade locking plugs and connectors

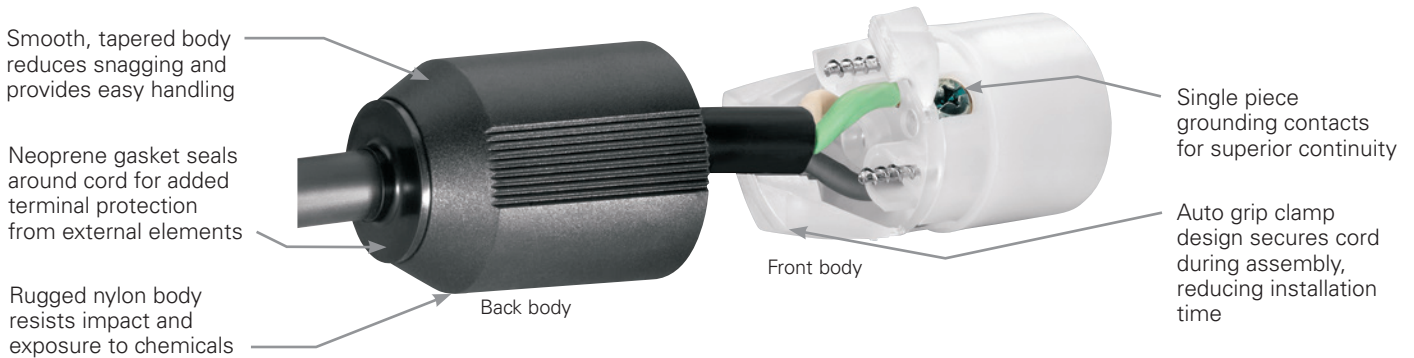
## Rugged, quality locking devices for any application

Superior design and performance make Arrow Hart's hart lock devices the ideal choice for industrial applications. Available in a wide range of NEMA and Non-NEMA configurations

### Ultra grip straight blade plugs & connectors redesign features & benefits



### Auto grip hospital and industrial grade plugs & connectors features & benefits



Retained quick drive assembly screws speed installation



Multiple-head drive screws provide versatility for ease of use



Tapered, individual wire pockets guide stranded wire into contact area for ease of installation

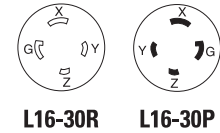
Compliances, specifications and availability are subject to change without notice.

www.eaton.com  
www.arrowhart.com

## Hart lock industrial grade 30A locking devices

### Product description

3-pole, 4-wire grounding  
 30A, 3Ø 480V/AC  
 NEMA L16-30



AHL1630R



AHL1630FI



AHL1630P

### Industrial grade plugs & connectors

Rating	V/AC	NEMA	Description	Cord diameter	Color	Plug catalog no.	Connector catalog no.		
30	480	L16-30	3Ø ultra grip straight body	0.38-1.16" (9.5-29.4mm)	BK & W	<input type="checkbox"/> AHL1630P	<input type="checkbox"/> AHL1630C		

### Industrial grade receptacles

Rating	V/AC	NEMA	Description	Color	Single receptacle		
30	480	L16-30	Standard industrial	BK	<input type="checkbox"/> AHL1630R		

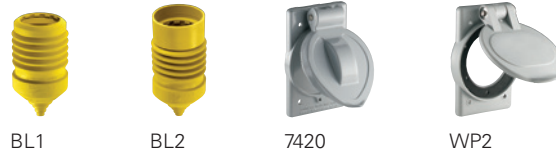
### Industrial grade flanged inlets & outlets

Rating	V/AC	NEMA	Description	Color	Flanged inlet	Flanged outlet		
30	480	L16-30	Standard industrial	BK	<input type="checkbox"/> AHL1630FI	—		
			Standard industrial	BK & W	—	<input type="checkbox"/> AHL1630FO**		

\*\*UL Listed only

### Accessories for L16-30 locking devices

Description	Catalog no.		
Neoprene weather protective boot for 4-W & 5-W plugs	<input type="checkbox"/> BL1		
Neoprene weather protective boot for 4-W & 5-W connectors	<input type="checkbox"/> BL2		
Diecast aluminum single receptacle cover, vertical mount, for FS/FD boxes	<input type="checkbox"/> 7420		
Glass-filled nylon flanged inlet/outlet cover, vertical mount, for 30A devices	<input type="checkbox"/> WP2		



BL1

BL2

7420

WP2

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

**Plug & connector specification information:**

Ultra grip K15-30: C-84

**Receptacle specification information:**

K15-30: C-87

Isolated ground K15-30: C-87

**Flanged inlet & flanged outlet specification information:**

K15-30: C-89

### Color information:

BK (Black), W (White)



(Black)

(White)

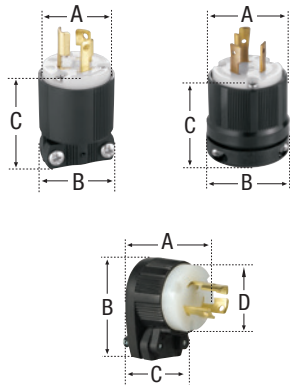
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Indicates NAFTA compliant - Page Q-30

RoHS compliant - Page Q-30

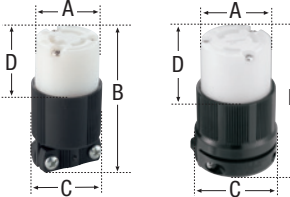
## 15A, 20A & 30A locking devices

### Safety grip plugs



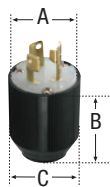
Family	A	B	C	D	Cord diameter
NEMA L2-20	1.37" (34.8mm)	1.50" (38.1mm)	2.06" (52.3mm)	–	0.33-0.66" (8.4-16.7mm)
15A & 10/15A locking	1.37" (34.8mm)	1.50" (38.1mm)	2.06" (52.3mm)	–	0.33-0.66" (8.4-16.7mm)
15A locking angled	1.28" (32.5mm)	1.47" (37.3mm)	1.50" (38.1mm)	2.06" (52.3mm)	0.33-0.66" (8.4-16.7mm)
20/10A locking	2.19" (55.6mm)	2.31" (58.7mm)	2.75" (69.9mm)	–	0.63-1.16" (15.9-29.4mm)
20A locking 2-P, 3-W; 3-P, 3-W	2.00" (50.8mm)	2.12" (53.8mm)	2.34" (59.4mm)	–	0.38-1.00" (9.5-25.4mm)
20A locking 3-P, 4-W; 4-P, 4-W; 4-P, 5-W	2.19" (55.6mm)	2.31" (58.7mm)	2.75" (69.9mm)	–	0.63-1.16" (15.9-29.4mm)
30A locking 2-P, 3-W; 3-P, 3-W	2.00" (50.8mm)	2.12" (53.8mm)	2.34" (59.4mm)	–	0.38-1.00" (9.5-25.4mm)
30A locking 3-P, 4-W; 4-P, 4-W; 4-P, 5-W	2.19" (55.6mm)	2.31" (58.7mm)	2.75" (69.9mm)	–	0.63-1.16" (15.9-29.4mm)

### 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)
20/10A 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)
20A locking 2-P, 3-W; 3-P, 3-W	2.00" (50.8mm)	3.44" (87.3mm)	2.12" (53.8mm)	1.31" (33.3mm)	0.38-1.00" (9.5-25.4mm)
20A locking 3-P, 4-W	2.00" (50.8mm)	3.44" (87.3mm)	2.12" (53.8mm)	1.31" (33.3mm)	0.38-1.00" (9.5-25.4mm)
20A locking 4-P, 4-W & 4-P, 5-W	2.19" (55.6mm)	3.75" (95.3mm)	2.31" (58.7mm)	1.22" (31.0mm)	0.63-1.16" (15.9-29.4mm)
30A locking 2-P, 3-W; 3-P, 3-W	2.00" (50.8mm)	3.44" (87.3mm)	2.12" (53.8mm)	1.31" (33.3mm)	0.38-1.00" (9.5-25.4mm)
30A locking 3-P, 4-W; 4-P, 4-W; 4-P, 5-W	2.19" (55.6mm)	3.75" (95.3mm)	2.31" (58.7mm)	1.22" (31.0mm)	0.63-1.16" (15.9-29.4mm)

### 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)

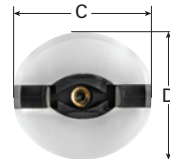
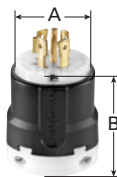
### Auto grip connectors



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	2.18" (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)



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# 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>	<p><b>Flammability:</b> Meets UL94 requirements, V0 rated</p> <p><b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)</p>	<p><b>Flammability:</b> Meets UL94 requirements, V2 rated</p> <p><b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)</p>	<p><b>Flammability:</b> Meets UL94 requirements, V2 rated</p> <p><b>Temperature rating:</b> -40°C to 60°C (-40°F to 140°F)</p>
<b>Electrical specifications</b>	<p><b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498</p> <p><b>Current interrupting:</b> Yes, at full-rated current</p> <p><b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload</p>	<p><b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498</p> <p><b>Current interrupting:</b> Yes, at full-rated current</p> <p><b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload</p>	<p><b>Dielectric voltage:</b> Twice the device rating + 1000V per UL498</p> <p><b>Current interrupting:</b> Yes, at full-rated current</p> <p><b>Temperature rise:</b> Max. 30°C (86°F) after 200 cycles of overload</p>
<b>Mechanical specifications</b>	<p><b>Terminal accommodation:</b> #16 - #12 AWG</p> <p><b>Voltage ratings:</b> Permanently marked on device</p>	<p><b>Terminal accommodation:</b> #16 - #12 AWG</p> <p><b>Voltage ratings:</b> Permanently marked on device</p>	<p><b>Terminal accommodation:</b> #16 - #12 AWG, except isolated ground: #14 - #8 AWG</p> <p><b>Voltage ratings:</b> Permanently marked on device</p>
<b>Materials</b>	<p><b>Outer shell:</b> Safety grip: nylon; auto grip: phenolic</p> <p><b>Interior body:</b> Safety grip: nylon; auto grip: phenolic</p> <p><b>Terminal retainer:</b> Polycarbonate</p> <p><b>Blades:</b> Brass</p> <p><b>Line contacts:</b> Brass</p> <p><b>Terminal clamps:</b> Steel, zinc-plated</p> <p><b>Terminal screws:</b> Brass</p> <p><b>Ground screw:</b> Brass</p> <p><b>Assembly screws:</b> Steel, zinc-plated</p> <p><b>Gasket/dust shield:</b> Neoprene</p> <p><b>Cord clamp screws:</b> Steel, zinc-plated</p> <p><b>Cord clamp:</b> Steel, zinc-plated</p>	<p><b>Outer shell:</b> Nylon</p> <p><b>Interior body:</b> Nylon</p> <p><b>Terminal retainer:</b> Polycarbonate</p> <p><b>Blades:</b> Brass</p> <p><b>Line contacts:</b> Brass</p> <p><b>Terminal clamps:</b> Steel, zinc-plated</p> <p><b>Terminal screws:</b> Brass</p> <p><b>Ground screw:</b> Brass</p> <p><b>Assembly screws:</b> Steel, zinc-plated</p> <p><b>Gasket/dust shield:</b> Neoprene</p> <p><b>Cord clamp screws:</b> Steel, zinc-plated</p> <p><b>Cord clamp:</b> Steel, zinc-plated</p>	<p><b>Outer shell:</b> Nylon</p> <p><b>Interior body:</b> Nylon</p> <p><b>Terminal retainer:</b> Polycarbonate</p> <p><b>Blades:</b> Brass</p> <p><b>Line contacts:</b> Connectors: zinc plated</p> <p><b>Terminal clamps:</b> Steel</p> <p><b>Terminal screws:</b> #10-32 brass, neutral screw nickel plated</p> <p><b>Ground screw:</b> #10-32 brass (green)</p> <p><b>Assembly screws:</b> Steel, zinc-plated</p> <p><b>Gasket/dust shield:</b> Neoprene</p> <p><b>Cord clamp screws:</b> Steel, zinc-plated</p> <p><b>Cord clamp:</b> Nylon</p>

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