Arrow Hart color coded industrial grade L15-20 locking devices

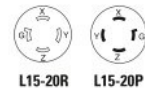| Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Photography is for reference only.

Description

20A, 3Ø, 250V/AC, 3-Pole, 4-Wire
NEMA L15-20

🔵 Blue indicates 250 V/AC

L15-20R   L15-20P

Design features for plugs & connectors

- All nylon construction
- EPDM gasket seals cord hole from dust and debris
- Back wire terminal clamps for easy secure wiring
- Individual wiring compartments with tapered channel for easy insertion of wires
- Clear cover over wiring compartments allows easy inspection of wiring terminations
- Rating printed on side of device
- Double dovetail cord clamps with reversible inserts provide secure cord retention over a full range of cord diameters

Design features for receptacles

- Rugged glass filled nylon body
- Clearly marked rating, NEMA configuration and approval listings on receptacle face
- One piece brass contacts offer superior performance and minimal heat rise
- Back and side wiring terminal clamps for easy, secure wiring

Design features for flanged inlet & outlet

- All nylon construction
- Mounting holes interchangeable with competitive units
- Back wire terminal clamps for easy, secure wiring
- Individual wiring compartments with tapered channel for easy insertion of wires

Table 1. NEMA L15-20 Color Coded Industrial Grade Locking Devices

Catalog No.	Description	Amps	Volts	Color
☐ AHCL1520P	Color Coded ultra grip plug, 3-phase	20	250	Blue & Black
☐ AHCL1520C	Color Coded ultra grip connector, 3-phase	20	250	Blue & Black
☐ AHCL1520R	Color Coded single receptacle, 3-phase	20	250	Blue & Black
☐ AHCL1520FO	Color Coded flanged outlet, 3-phase	20	250	Blue & Black
☐ AHCL520FI	Color Coded flanged inlet, 3-phase	20	250	Blue & Black

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Applications

The new Eaton Arrow Hart color coded locking devices are designed specifically to improve safety and increase labor savings on the job site. Eaton's color coded locking devices are an industry-first solution that uses the six voltage rating color codes consistent with IEC 60309 standards for plugs, connectors, inlets/outlets and receptacles. Color coded locking devices are available in standard NEMA configurations for 20A and 30A applications. Plugs and connectors are built with a durable nylon shell and body to provide long lasting, dependable service in commercial and industrial environments--their ergonomic design has a comfortable feel, and the double dove-tail cord clamps with reversible inserts provide secure cord retention over a full range of cord diameters.

Table 2. Specifications

Catalog No.	AHCL1520 Series		
Device Type	**Plugs & Connectors**	**Single Receptacles**	**Flanged Inlet & Outlet**
NEMA Config	NEMA L15-20	NEMA L15-20	NEMA L15-20
Wiring Type	Back wire	Back & side wire	Back wire
Environmental Specifications	**Flammability:** Meets UL94 requirements; V2 rated **Temperature Rating:** -40°C (w/o impact) to 60°C (-40°F to 140°F) -25°C (w/impact) to 60°C (-13°F to 140°F)	**Flammability:** Meets UL94 requirements; V0 rated **Temperature Rating:** -40°C to 70°C (-40°F to 158°F)	**Flammability:** Meets UL94 requirements; V2 rated **Temperature Rating:** -40°C (w/o impact) to 60°C (-40°F to 140°F) -25°C (w/impact) to 60°C (-13°F to 140°F)
Electrical Specifications	**Dielectric Voltage:** Twice the device rating + 1000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30°C (86°F) after 50 cycles of overload at 150% of rated current (DC)	**Dielectric Voltage:** ≤300V: 2000V, 301-600V: 3000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30°C (86°F) after 250 cycles of overload @ 200% of rated current (DC)	**Dielectric Voltage:** ≤300V: 2000V, 301-600V: 3000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)
Mechanical Specifications	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device

Table 3. Materials

Catalog No.	AHCL1520 Series		
Device Type	**Plug & Connector**	**Single Receptacles**	**Flanged Inlet & Outlet**
NEMA Config	NEMA L15-20	NEMA L15-20	NEMA L15-20
Face	N/A	Glass-filled nylon	N/A
Base	N/A	Glass-filled nylon	N/A
Mounting Strap	N/A	0.050" thick steel, zinc plated	N/A
Outer Shell	Nylon	N/A	Nylon
Interior Body	Nylon	N/A	Nylon
Terminal Retainer	Polycarbonate	N/A	Polycarbonate
Blades	Brass	N/A	0.062" thick brass (inlet only)
Line Contacts	Bronze, tin plated	0.041" thick brass	0.031" thick bronze, tin plated (outlet only)
Terminal Clamps/Plates	Steel, tin plated	0.041" thick brass	Steel, tin plated
Terminal Screws	#10-32 brass, zinc plated (neutral screw)	#10-32 brass, nickel plated (neutral screw)	#10-32 brass, nickel plated (neutral screw)
Ground Screw	#10-32 brass (green)	#10-32 brass (green)	#10-32 brass (green)
Assembly Screws	Steel, nickel plated	N/A	Steel, nickel plated
Gasket/Dust Shield	EPDM	N/A	N/A
Cord Clamp Screws	Steel, nickel plated	N/A	N/A
Cord Clamp	Nylon	N/A	N/A
Ground Contacts	N/A	0.041" thick brass	N/A
Back Plate	N/A	0.041" thick brass, nickel plated	N/A
Mounting Screws	N/A	Steel, zinc plated	Steel, zinc plated

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Product Dimensions
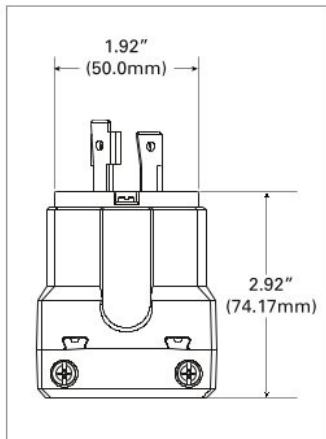
1.92″
(50.0mm)

2.92″
(74.17mm)

Figure 1. AHCL1520P
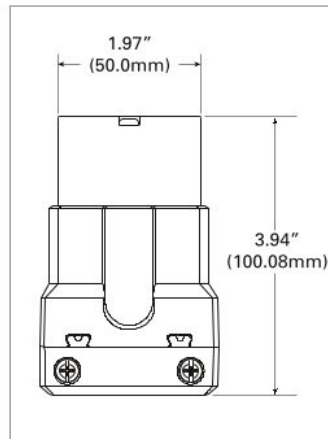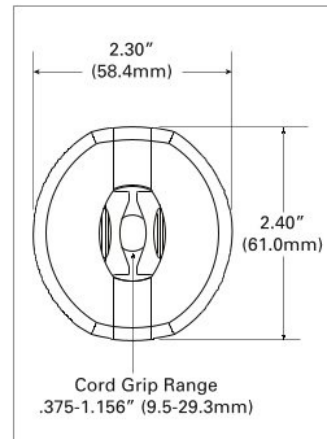
1.97″
(50.0mm)

3.94″
(100.08mm)

Figure 2. AHCL1520C

2.30″
(58.4mm)

2.40″
(61.0mm)

Cord Grip Range
.375-1.156″ (9.5-29.3mm)

Figure 3. Bottom View

1.63″
(41.4mm)

3.64″
(92.5mm)

3.28″
(83.3mm)

1.56″
(39.6mm)

2.64″
(67.1mm)

1.06″ (26.9mm)

Figure 4. AHCL1520R

3.06″
(77.7mm)

2.03″
(51.6mm)

2.24″
(56.9mm)

2.19″
(55.6mm)

Figure 5. AHCL1520FO

3.06″
(77.7mm)

2.03″
(51.6mm)

2.24″
(56.9mm)

2.19″
(55.6mm)

Figure 6. AHCL1520FI

0.22″
(5.6mm)

120°

120°

1.34″
(34.0mm)
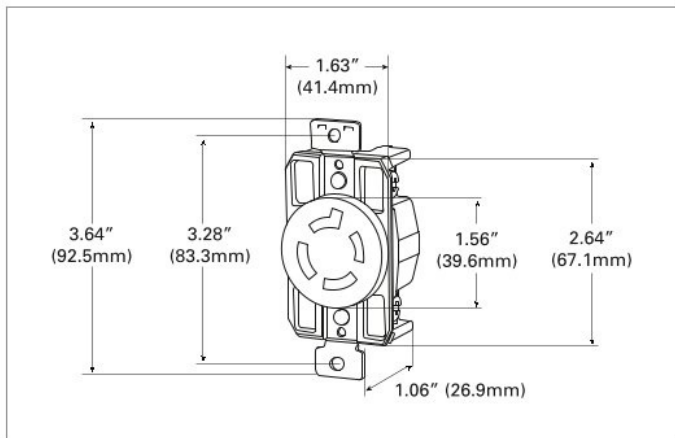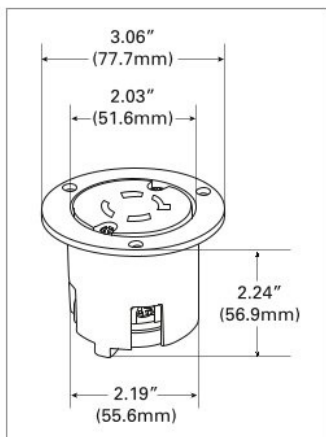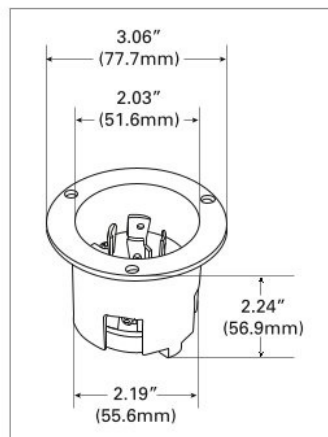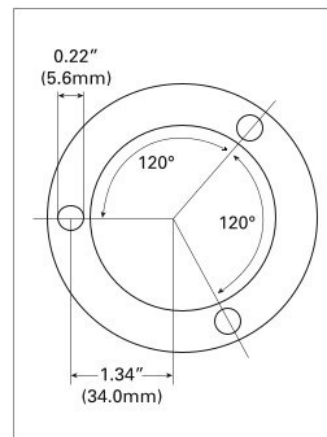
Figure 7. Top View

Project Name:	Prepared By:
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Catalog Number:	Type:

Certifications & Compliances

Catalog No.	c(UL)us	(UL)	(CSA)	F(UL)s	NOM 426	NAFTA	ROHS
AHCL1520P	•				•	•	•
AHCL1520C	•				•	•	•
AHCL1520R		•	•	•	•	•	•
AHCL1520FO	•				•	•	•
AHCL1520FI	•				•	•	•

KEY: c(UL)us cULus   (UL) UL   (CSA) CSA   F(UL)s Fed Spec   NOM 426 NOM   NAFTA   ✓ ROHS

✓ Parts are manufactured and designed in accordance with article 4 of the European Union's RoHS2 directive 2011/65/EU

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