

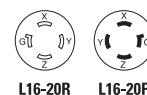
Arrow Hart color coded industrial grade L16-20 locking devices

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

Description

20A, 3Ø, 480V/AC, 3-Pole, 4-Wire
NEMA L16-20

● = Red indicates 480 V/AC



Photography is for reference only.

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 L16-20 Color Coded Industrial Grade Locking Devices

| Catalog No. | Description | Amps | Volts | Color |
|--------------|---|------|-------|-------------|
| □ AHCL1620P | Color coded ultra grip plug, 3-phase | 20 | 480 | Red & Black |
| □ AHCL1620C | Color coded ultra grip connector, 3-phase | 20 | 480 | Red & Black |
| □ AHCL1620R | Color coded single receptacle, 3-phase | 20 | 480 | Red & Black |
| □ AHCL1620FO | Color coded flanged outlet, 3-phase | 20 | 480 | Red & Black |
| □ AHCL1620FI | Color coded flanged inlet, 3-phase | 20 | 480 | Red & Black |

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

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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 dovetail cord clamps with reversible inserts provide secure cord retention over a full range of cord diameters.

Table 2. Specifications

| Catalog No. | AHCL1620 Series | | |
|-------------------------------------|--|--|---|
| Device Type | Plugs & Connectors | Single Receptacles | Flanged Inlet & Outlet |
| NEMA Config | NEMA L16-20 | NEMA L16-20 | NEMA L16-20 |
| 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. | AHCL1620 Series | | |
|-------------------------------|---|---|--|
| Device Type | Plug & Connector | Single Receptacles | Flanged Inlet & Outlet |
| NEMA Config | NEMA L16-20 | NEMA L16-20 | NEMA L16-20 |
| 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 bronze, tin plated (inlet only) |
| Line Contacts | Bronze, tin plated | 0.041" thick brass | 0.031" thick bronze (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 |

Arrow Hart color coded industrial grade
L16-20 locking devices


Technical Data
Effective December 2018

| | |
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| Project Name: | Prepared By: |
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Certifications & Compliances

| Catalog No. |  |  |  |  |  |  |  |
|-------------|---|---|---|---|---|---|---|
| AHL1620P | • | | | | • | • | • |
| AHL1620C | • | | | | • | • | • |
| AHL1620R | | • | • | • | • | • | • |
| AHL1620FO | • | | | | • | • | • |
| AHL1620FI | • | | | | • | • | • |

KEY:  cULus  UL  CSA  Fed Spec  NAFTA  ROHS  NOM

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

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

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