

Single Pole Devices

Industrial Grade Connectors for Temporary and Semi-Permanent Power Distribution Applications

rhino-hide®









Single Pole Cam Devices



rhino-hide® Single Pole Cam-Type Devices

Rhino-Hide Single Pole Cam-Type Devices from Leviton are designed to provide superior service and durability, even under the most severe operating conditions. Our 15 Series Taper Nose mini-cam plugs and receptacles are rated to 150 Amps, making them ideal for entertainment applications such as those found in carnivals and theme parks.

Our 16 Series Taper Nose Cam-Type Devices are rated up to 400 Amps, making them the devices of choice for power distribution applications such as construction sites, mining operations, welding, cell tower backup power, concerts, sound stages, movie making, television productions, sporting events and conventions.









The 18 Series Single Pole Ball Nose Cam-Type Devices are also rated to 400 Amps, and are typically favored by the broadcasting and welding industries as well as many end users in Canada.

All of these devices feature solid brass contacts and high-performance TPV insulators, making them ideal for both outdoor and indoor applications. The positive locking connection maintains its integrity even when subjected to vibration. Plus, they are interoperable and interchangeable with competitive products.









Single Pole Cam Devices



rhino-hide® Single Pole Cam-Type Devices
Our 17 & 19 Series Taper and Ball Nose devices are rated up to 690 Amps and can withstand grueling, heavy-duty industrial use. Preferred applications for this series include generator test stations, water purification plants, electrochemical machining equipment and other general industrial uses.





17D21-B







Rhino-Hide 22 & 23 Series Single Pole Latching Cam-Type devices are also rated up to 690 Amps and feature an additional latching mechanism for added security, especially in high-vibration applications. These devices can also be retrofitted to existing locations and power distribution systems allowing for an effortless installation.

The 22 Series Plugs offer an innovative solution for all tower-to-cell cable connections in wind turbines. Our In-Line Cam-Type Plugs partnered with pre-assembled harnesses allow quick connect and disconnect on site. In addition when compared to traditional "butt-splice" methods, cam plugs lower total installation costs drastically. These plugs are commonly used to provide power to ships at dock side, and are recognized by ETL Labs to meet U.S. Navy specifications.







Single Pole High Amperage Devices



rhino-hide® 49 Series Single Pole High Amperage Devices

Rhino-Hide 49 Series single pole devices are designed to deliver up to 1135 Amps at 1000 volts, AC or DC, under the most extreme conditions with cables ranging in size from 313 MCM to 777 MCM. Leviton's Rhino-Hide products are designed to mate with other manufacturers' high-amperage single pole devices.

Rhino-Hide 49 Series single pole high amperage devices are CE Certified and cURus recognized components engineered to exceptional standards for high-amperage power delivery.

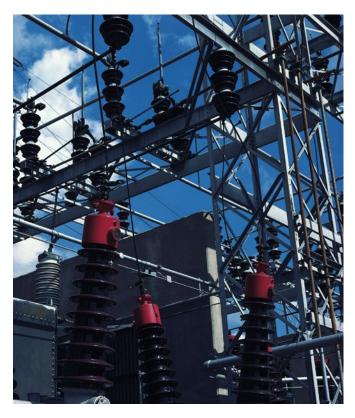






Single Pole High Amperage Devices

Rhino-Hide 49 Series products are ideal for any number of demanding applications requiring continuous, reliable high-amperage power in multi phases. Typical locations where these products are used include oil and gas rigs as well as heavy industrial applications. Rhino-Hide devices can be installed on both existing silicon-controlled rectifiers (SCR's) and generator stations or on new oil and gas rig construction. These devices are used by SCR drive manufacturers and top drive manufacturers to distribute power from the SCR to mud pumps and top drives.











49MR1-XR

Cam-Type Devices for Commercial and Industrial Use

Rhino-Hide Single Pole Cam-Type Connectors from Leviton supply temporary electrical power distribution for multiple indoor and outdoor applications.

Common Applications

- Sports, Entertainment and Movie Industry
- Theme Parks and Carnival Equipment
- Concert Venues and Convention Centers
- Motor and Generator Splices
- Mining Operations

- Welding and Construction Sites
- Commercial and Navy Shipbuilding/Repair
- Petrochemical and Manufacturing Plant Turnarounds
- Numerous Other Temporary Power Applications

Features and Benefits

- Plugs are available in set screw or crimp tube termination, taper nose and ball nose configurations
- Intermateable and compatible with competitive cam-type products can be retrofitted to existing locations and power distribution systems
- Shatter and crack proof high durometer thermoplastic vulcanizate (TPV) or neoprene rubber
- Color-coded insulating sleeves provide fast and easy phase identification
- Self compensating for wear slit in male contact provides spring action for longer usage
- Quick connect/disconnect
- High conductivity positive, vibration-proof connection provided by cam design
- Wide range of applications usable with a wide range of cable and amperage ratings
- Meets NEC requirements and is UL Listed and CSA Certified; NEMA 3R-Rated for use in outside locations

Experience the Difference

Rhino-Hide Single Pole Cam-Type Connectors are designed for easy assembly and disassembly without special tools. A thermoplastic screw is used to tightly secure the contact inside the insulating sleeve, making assembly, disassembly and field repairs effortless. The plugs use plastic locking and reinforcement rings molded into insulating sleeves and receptacles ensuring the integrity of the connection. Under severe stress and load conditions, these rings will not melt, break or crack.





Cam-Type Plugs Features and Benefits



CAM-TYPE PLUGS

| | Component | Description | Standards and Certifications (NEMA, UL, CSA) |
|-----------------------------|---------------|---------------------------------|--|
| 15, 16, 18 Series Plugs | Sleeve* | Thermoplastic Vulcanizate (TPV) | See individual pages throughout |
| | Contact | Brass | this section for specific Standards |
| | Strain Relief | Copper Wire | and Certifications information |
| 17, 19, 22, 23 Series Plugs | Sleeve** | Neoprene | See individual pages throughout |
| | Contact | Brass | this section for specific Standards |
| | Strain Relief | Copper Wire | and Certifications information |

^{*&}quot;V" Series: Neoprene **22L22-S and 22L25-S Series: TPV

15 Series Taper Nose Devices - 150A, 600V AC/DC Max NEMA 3R Rated for Outdoor Use

Male Plug - Set Screw Termination (15D21-UG Shown)



Female Plug - Set Screw Termination (15D22-UY Shown)



Male Plug - Crimp Tube Termination Contact (15D23-UC Shown; Uses Same Sleeve As Above)



Female Plug - Crimp Tube Termination Contact (15D24-UC Shown; Uses Same Sleeve As Above)



Male Panel Receptacle (15R21-UR Shown)



Enclosure (15S31-UR Shown)



Female Panel Receptacle (15R22-UH Shown)





15 Series Device Ordering Information

CAM-TYPE PLUGS

| | | Single Set Screw | Termination 🖫 🚱 | |
|----------------------|--------|------------------|-----------------|---|
| | | Male Plug | Female Plug | |
| | White | 15D21-UW | 15D22-UW | |
| | Black | 15D21-UE | 15D22-UE | |
| Cable Size: #8 - #2 | Brown | 15D21-UH | 15D22-UH | |
| Max Ampacity: 150A | Red | 15D21-UR | 15D22-UR | |
| Voltage: 600V AC/DC | Blue | 15D21-UB | 15D22-UB | |
| UL/CSA 1691 Listed | Orange | 15D21-U0 | 15D22-U0 | |
| | Green | 15D21-UG | 15D22-UG | |
| | Yellow | 15D21-UY | 15D22-UY | |
| Replacement Contacts | | 15D21-UC | 15D22-UC | |
| | | · | - | • |

| | | • | rmination 🕸 🏻 | |
|----------------------|--------|-----------|---------------|--|
| | | Male Plug | Female Plug | |
| | White | 15D23-UW | 15D24-UW | |
| | Black | 15D23-UE | 15D24-UE | |
| Cable Size: #8 - #4 | Brown | 15D23-UH | 15D24-UH | |
| Max Ampacity: 140A | Red | 15D23-UR | 15D24-UR | |
| Voltage: 600V AC/DC | Blue | 15D23-UB | 15D24-UB | |
| UL/CSA 1691 Listed | Orange | 15D23-U0 | 15D24-U0 | |
| | Green | 15D23-UG | 15D24-UG | |
| | Yellow | 15D23-UY | 15D24-UY | |
| Replacement Contacts | | 15D23-UC | 15D24-UC | |

REPLACEMENT SLEEVES

| | Male Plug | Female Plug |
|--------|-----------|-------------|
| White | 15SDM-1UW | 15SDF-1UW |
| Black | 15SDM-1UE | 15SDF-1UE |
| Brown | 15SDM-1UH | 15SDF-1UH |
| Red | 15SDM-1UR | 15SDF-1UR |
| Blue | 15SDM-1UB | 15SDF-1UB |
| Orange | 15SDM-1U0 | 15SDF-1U0 |
| Green | 15SDM-1UG | 15SDF-1UG |
| Yellow | 15SDM-1UY | 15SDF-1UY |

CAM-TYPE PANEL MOUNT RECEPTACLES

| | | .5" Threaded S Male | tud Term. 🖫 🚱 Female | .75" Threaded ! Male | Stud Term. (l) (6. Female | Enclosure Male/Female |
|---|--------|------------------------|-------------------------|-------------------------|------------------------------|--------------------------|
| | White | 15R21-UW | 15R22-UW | 15R21-1UW | 15R22-1UW | 15S31-UW |
| | Black | 15R21-UE | 15R22-UE | 15R21-1UE | 15R22-1UE | 15S31-UE |
| Cable Size: #8 - #2 | Brown | 15R21-UH | 15R22-UH | 15R21-1UH | 15R22-1UH | 15S31-UH |
| Max Ampacity: 150A Voltage: 600V AC/DC | Red | 15R21-UR | 15R22-UR | 15R21-1UR | 15R22-1UR | 15S31-UR |
| voltage: 600V AC/DC | Blue | 15R21-UB | 15R22-UB | 15R21-1UB | 15R22-1UB | 15S31-UB |
| UL/CSA 1691 Listed | Orange | 15R21-U0 | 15R22-U0 | 15R21-1U0 | 15R22-1U0 | 15S31-U0 |
| | Green | 15R21-UG | 15R22-UG | 15R21-1UG | 15R22-1UG | 15S31-UG |
| | Yellow | 15R21-UY | 15R22-UY | 15R21-1UY | 15R22-1UY | 15S31-UY |

Single Pole Cam Devices

rhino-hide®

Cam-Type

15 Series Device Accessories

"Com-A-Long" Assembly Tools

15CLM-U for Female Plug



15CLF-U for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims

A0006

(Sold 10 per package)



Strain Relief Wire

A0007

(Sold 10 per package)



Set Screws

A0001

(Sold 10 per package)



Plastic Screws

A0011

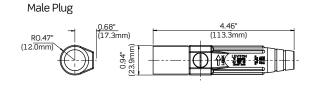
(Sold 10 per package)





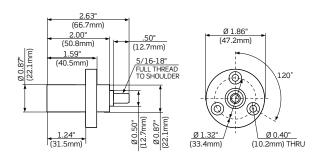
15 Series Device Technical Drawings

DIMENSIONS

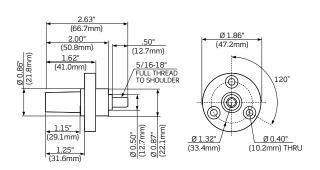


Female Plug RO.47" (12.0mm) (15.0mm) (108.2mm) (108.2mm) (16.8mm)

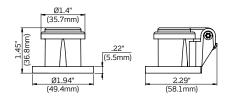
Male Panel Receptacle



Female Panel Receptacle



NEMA 3R Enclosure for Male and Female Panel Receptacles



AMPACITY TABLE

| Cable Size | Ampacity |
|------------|----------|
| #8 | 80 |
| #6 | 105 |
| #4 | 140 |
| #2 | 190 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

16 Series Taper Nose Plugs - 400A, 600V AC/DC Max NEMA 3R Rated for Outdoor Use

Male Plug - Single Set Screw Termination (16D21-U0 Shown)



Male Plug -**Double Set Screw Termination Contact**

(16D22-PC Shown)



Male Plug -**Crimp Tube Termination Contact** (For 16D25 Shown)



Female Plug - Single Set Screw Termination (16D29-UG Shown)



Female Plug -**Double Set Screw Termination Contact**

(16D31-PC Shown)



Female Plug -



Male Plug - Crimp Tube Termination with Neoprene Sleeve





Female Plug - Crimp Tube Termination with Neoprene Sleeve

(16V26-R Shown)



Male Plug - Flame Retardant for Mining Applications



Female Plug - Flame Retardant for Mining Applications





16 Series Plug Ordering Information

CAM-TYPE PLUGS

| | | Double Set Screw Male Plug | v Termination (1) (6) Female Plug | | |
|---|---|--|---|---|---|
| | White | 16D44-UW | 16D45-UW | | |
| | Black | 16D44-UE | 16D45-UE | | |
| Cable Size: #6 - #2 | Brown | 16D44-UH | 16D45-UH | | |
| Max Ampacity: 190A | Red | 16D44-UR | 16D45-UR | | |
| Voltage: 600V AC/DC | Blue | 16D44-UB | 16D45-UB | | |
| UL/CSA 1691 Listed | Orange | 16D44-U0 | 16D45-U0 | | |
| | Green | 16D44-UG | 16D45-UG | | |
| | Yellow | 16D44-UY | 16D45-UY | | |
| | | Crimp Tube Te | ermination (l) (l) Female Plug | | |
| | White | 16D25-UW | 16D34-UW | | |
| | Black | 16D25-UE | 16D34-UE | | |
| Cable Size: #2 - #1 | Brown | 16D25-UH | 16D34-UH | | |
| Max Ampacity: 220A | Red | 16D25-UR | 16D34-UR | | |
| Voltage: 600V AC/DC | Blue | 16D25-UB | 16D34-UB | | |
| UL/CSA 1691 Listed | Orange | 16D25-U0 | 16D34-U0 | | |
| OL/ OSA 1031 LISTED | Green | 16D25-UG | 16D34-UG | | |
| | | | | | |
| | Yellow | 16D25-UY | 16D34-UY | | |
| | | | 16D34-UY / Termination ® ® Female Plug | Double Set Screw Male Plug | r Termination ® © Female Plug |
| | | Single Set Screw | / Termination (1) (8) | | |
| | Yellow | Single Set Screw Male Plug | / Termination ® ® Female Plug | Male Plug | Female Plug |
| | Yellow | Single Set Screw Male Plug 16D21-UW | Female Plug | Male Plug 16D22-UW | Female Plug 16D31-UW |
| Max Ampacity: 300A | Yellow White Black | Single Set Screw Male Plug 16D21-UW 16D21-UE | r Termination ® & Female Plug 16D29-UW 16D29-UE | Male Plug 16D22-UW 16D22-UE | Female Plug 16D31-UW 16D31-UE |
| Max Ampacity: 300A | Yellow White Black Brown | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH | r Termination ® & Female Plug 16D29-UW 16D29-UE 16D29-UH | Male Plug 16D22-UW 16D22-UE 16D22-UH | Female Plug 16D31-UW 16D31-UE 16D31-UH |
| Max Ampacity: 300A Voltage: 600V AC/DC | Yellow White Black Brown Red | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR | Termination ® & Female Plug 16D29-UW 16D29-UE 16D29-UH 16D29-UR | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR |
| Max Ampacity: 300A Voltage: 600V AC/DC | Yellow White Black Brown Red Blue | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB |
| Max Ampacity: 300A Voltage: 600V AC/DC | Yellow White Black Brown Red Blue Orange | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed | White Black Brown Red Blue Orange Green | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG | 7 Termination ® & Female Plug 16D29-UW 16D29-UE 16D29-UH 16D29-UR 16D29-UB 16D29-UO 16D29-UO | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed | White Black Brown Red Blue Orange Green | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UG | 7 Termination ® & Female Plug 16D29-UW 16D29-UE 16D29-UH 16D29-UR 16D29-UB 16D29-UO 16D29-UO | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed | White Black Brown Red Blue Orange Green | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UB 16D21-UO 16D21-UG 16D21-UG 16D21-UY — Crimp Tube Te | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG 16D31-UY |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts | Yellow White Black Brown Red Blue Orange Green Yellow | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UG Crimp Tube Te | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG 16D31-UY |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts Cable Size: 1/0 - 2/0 | Yellow White Black Brown Red Blue Orange Green Yellow | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UY | Termination ® Female Plug 16D29-UW 16D29-UE 16D29-UH 16D29-UR 16D29-UB 16D29-UO 16D29-UO 16D29-UG 16D29-UY — Permination ® Female Plug 16D35-UW | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG 16D31-UY |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts Cable Size: 1/0 - 2/0 Max Ampacity: 300A | Yellow White Black Brown Red Blue Orange Green Yellow White Black | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UG 16D21-UY — Crimp Tube Te Male Plug 16D26-UW 16D26-UE | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG 16D31-UY |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts Cable Size: 1/0 - 2/0 Max Ampacity: 300A | Yellow White Black Brown Red Blue Orange Green Yellow White Black Brown | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UG 16D21-UY — Crimp Tube Te Male Plug 16D26-UW 16D26-UH | Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG |
| Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts Cable Size: 1/0 - 2/0 Max Ampacity: 300A Voltage: 600V AC/DC | Yellow White Black Brown Red Blue Orange Green Yellow White Black Brown Red | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UY — Crimp Tube Te Male Plug 16D26-UW 16D26-UE 16D26-UH 16D26-UR | 7 Termination ® | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UE 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG 16D31-UY |
| Cable Size: #2 - 2/0 Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed Replacement Contacts Cable Size: 1/0 - 2/0 Max Ampacity: 300A Voltage: 600V AC/DC UL/CSA 1691 Listed | White Black Brown Red Blue Orange Green Yellow White Black Brown Red Blue | Single Set Screw Male Plug 16D21-UW 16D21-UE 16D21-UH 16D21-UR 16D21-UB 16D21-UO 16D21-UG 16D21-UY — Crimp Tube Te Male Plug 16D26-UW 16D26-UE 16D26-UH 16D26-UR 16D26-UR | ### Termination | Male Plug 16D22-UW 16D22-UE 16D22-UH 16D22-UR 16D22-UB 16D22-UO 16D22-UG 16D22-UY | Female Plug 16D31-UW 16D31-UF 16D31-UH 16D31-UR 16D31-UB 16D31-UO 16D31-UG |

16 Series Plug Ordering Information

CAM-TYPE PLUGS

| | | Single Set Screw Male Plug | r Termination ® ® Female Plug | Double Set Screv Male Plug | v Termination ® ® Female Plug |
|-----------------------|--------|-------------------------------|--|-------------------------------|----------------------------------|
| | White | 16D23-UW | 16D32-UW | 16D24-UW | 16D33-UW |
| | Black | 16D23-UE | 16D32-UE | 16D24-UE | 16D33-UE |
| Cable Size: 2/0 - 4/0 | Brown | 16D23-UH | 16D32-UH | 16D24-UH | 16D33-UH |
| Max Ampacity: 400A | Red | 16D23-UR | 16D32-UR | 16D24-UR | 16D33-UR |
| Voltage: 600V AC/DC | Blue | 16D23-UB | 16D32-UB | 16D24-UB | 16D33-UB |
| UL/CSA 1691 Listed | Orange | 16D23-U0 | 16D32-U0 | 16D24-U0 | 16D33-U0 |
| | Green | 16D23-UG | 16D32-UG | 16D24-UG | 16D33-UG |
| | Yellow | 16D23-UY | 16D32-UY | 16D24-UY | 16D33-UY |
| Replacement Contacts | | _ | _ | 16D24-UC | 16D33-UC |

| | | Crimp Tube Te Male Plug | ermination ® © Female Plug | |
|---|--------|----------------------------|--------------------------------------|--|
| | White | 16D28-UW | 16D37-UW | |
| | Black | 16D28-UE | 16D37-UE | |
| Cable Size: 3/0 - 4/0 | Brown | 16D28-UH | 16D37-UH | |
| Max Ampacity: 400A Voltage: 600V AC/DC | Red | 16D28-UR | 16D37-UR | |
| voitage: 000V AC/DC | Blue | 16D28-UB | 16D37-UB | |
| UL/CSA 1691 Listed | Orange | 16D28-U0 | 16D37-U0 | |
| | Green | 16D28-UG | 16D37-UG | |
| | Yellow | 16D28-UY | 16D37-UY | |

REPLACEMENT SLEEVES (TPV)

| | For Plugs | 1/0 to 4/0 | For Plugs | s #2 - 2/0 |
|--------|-----------|-------------|-----------|-------------|
| | Male Plug | Female Plug | Male Plug | Female Plug |
| White | 16SDM-1UW | 16SDF-1UW | 16SDM-2UW | 16SDF-2UW |
| Black | 16SDM-1UE | 16SDF-1UE | 16SDM-2UE | 16SDF-2UE |
| Brown | 16SDM-1UH | 16SDF-1UH | 16SDM-2UH | 16SDF-2UH |
| Red | 16SDM-1UR | 16SDF-1UR | 16SDM-2UR | 16SDF-2UR |
| Blue | 16SDM-1UB | 16SDF-1UB | 16SDM-2UB | 16SDF-2UB |
| Orange | 16SDM-1U0 | 16SDF-1U0 | 16SDM-2U0 | 16SDF-2U0 |
| Gray | 16SDM-1UG | 16SDF-1UG | 16SDM-2UG | 16SDF-2UG |
| Yellow | 16SDM-1UY | 16SDF-1UY | 16SDM-2UY | 16SDF-2UY |



16 Series Plug Ordering Information

CAM-TYPE PLUGS

| | | Crimp Tube | Termination | , |
|--|--------|------------------|-------------------|---|
| | | Male Plug | Female Plug | |
| | White | 16V22-W | 16V26-W | |
| | Black | 16V22-E | 16V26-E | |
| Cable Size: 1/0 - 2/0 | Brown | 16V22-H | 16V26-H | |
| Max Ampacity: 300A | Red | 16V22-R | 16V26-R | |
| Voltage: 600V | Blue | 16V22-B | 16V26-B | |
| Neoprene Sleeve | Orange | 16V22-0 | 16V26-0 | |
| | Green | 16V22-G | 16V26-G | |
| | Yellow | 16V22-Y | 16V26-Y | |
| | | Crimn Tube | Termination | |
| | | Male Plug | Female Plug | |
| | White | 16V24-W | 16V28-W | |
| | Black | 16V24-E | 16V28-E | |
| Cable Size: 3/0 - 4/0 | Brown | 16V24-H | 16V28-H | |
| Max Ampacity: 400A | Red | 16V24-R | 16V28-R | |
| Voltage: 600V | Blue | 16V24-B | 16V28-B | |
| Neoprene Sleeve | Orange | 16V24-0 | 16V28-O | |
| | Green | 16V24-G | 16V28-G | |
| | Yellow | 16V24-Y | 16V28-Y | |
| | | Double Set Screy | v Termination ® ® | |
| | | Male Plug | Female Plug | |
| Cable Size: 2/0 - 4/0 Max Ampacity: 400A | | | | |
| Voltage: 600V AC/DC Flame Retardant | White | 16D40-U | 16D41-U | |
| UL/CSA 1691 Listed | | | | |

16 Series Taper Nose Panel Mount Receptacles - 400A, 600V AC/DC Max NEMA 3R Rated for Outdoor Use

Male - Double Set Screw (16R21-UR Shown)



Male - 45° Double Set Screw (16R27-UG Shown)



Female - Double Set Screw (16R22-UG Shown)



Female - 45° Double Set Screw (16R28-UB Shown)



Female - Threaded Stud (Rear View 16R24-UW Shown)



Male - Half Round Bus Bar (Rear View 16R19-UE Shown)







Male Protective Cap (16P21-UO Shown)



Female Protective Cap (16P22-U0 Shown)







16 Series Receptacle Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLE

| | | Male, 90° | Double Se Female, | et Screw Termi 90° | ination (l) (l) Male, 45° | Female, 45° |
|---|--|--|--|---|---|--|
| | White | 16R21-UW | 16R22-l | JW 1 | L6R27-UW | 16R28-UW |
| | Black | 16R21-UE | 16R22- | UE : | 16R27-UE | 16R28-UE |
| Cable Size: 2/0 - 4/0 | Brown | 16R21-UH | 16R22-l | JH : | 16R27-UH | 16R28-UH |
| Max Ampacity: 400A | Red | 16R21-UR | 16R22- | UR : | 16R27-UR | 16R28-UR |
| Voltage: 600V AC/DC | Blue | 16R21-UB | 16R22- | UB : | 16R27-UB | 16R28-UB |
| UL/CSA 1691 Listed | Orange | 16R21-U0 | 16R22-l | J0 : | 16R27-U0 | 16R28-U0 |
| | Green | 16R21-UG | 16R22- | UG : | 16R27-UG | 16R28-UG |
| | Yellow | 16R21-UY | 16R22- | UY : | 16R27-UY | 16R28-UY |
| | | Male, 90° | .75"L Thread Female, 90° | ded Stud** Ter w/microswitch | mination ® ® n Male, 45° | Female, 45° |
| | White | 16R23-UW | 16R24-UW | 16RSW-UW | 16R29-UW | 16R30-UW |
| | Black | 16R23-UE | 16R24-UE | 16RSW-UE | 16R29-UE | 16R30-UE |
| Cable Size: #2 - 4/0 | Brown | 16R23-UH | 16R24-UH | 16RSW-UH | 16R29-UH | 16R30-UH |
| Max Ampacity: 400A | Red | 16R23-UR | 16R24-UR | 16RSW-UR | 16R29-UR | 16R30-UR |
| Voltage: 600V AC/DC | Blue | 16R23-UB | 16R24-UB | 16RSW-UB | 16R29-UB | 16R30-UB |
| UL/CSA 1691 Listed | Orange | 16R23-U0 | 16R24-U0 | 16RSW-UO | 16R29-U0 | 16R30-U0 |
| | Croon | 16R23-UG | 16R24-UG | 16RSW-UG | 16R29-UG | 16R30-UG |
| | Green | 10K25-00 | | | | |
| | Yellow | 16R23-UY | 16R24-UY | 16RSW-UY | 16R29-UY | 16R30-UY |
| | | | 16R24-UY | | | |
| | | | 16R24-UY | aded Stud** Te | 16R29-UY | |
| | | 16R23-UY | 16R24-UY 1.125"L Threa | aded Stud** Te | 16R29-UY ermination ® & Self-Clinchir | ng Nut |
| | Yellow | 16R23-UY Male, 90° | 16R24-UY 1.125"L Three Female, | aded Stud** Te 90° UW 1 | 16R29-UY ermination ® & Self-Clinchin Male, 90° | ng Nut Female, 90° |
| Cable Size: #2 - 4/0 | Yellow | 16R23-UY Male, 90° 16R23-1UW | 1.125"L Threa Female, 16R24-1 | aded Stud** Te 90° UW 1 .UE 1 | 16R29-UY ermination ® ®- Self-Clinchii Male, 90° 6R25-1UW | ng Nut Female, 90° 16R26-1UW |
| Max Ampacity: 400A | Yellow White Black | 16R23-UY Male, 90° 16R23-1UW 16R23-1UE | 1.125"L Three Female, 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 | 16R29-UY ermination ® ©- Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE | ng Nut Female, 90° 16R26-1UW 16R26-1UE |
| | Yellow White Black Brown | 16R23-UY Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 | oded Stud** Te 90° UW 1 .UE 1 .UH 1 | 16R29-UY ermination ® © Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH |
| Max Ampacity: 400A | Yellow White Black Brown Red | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR | 1.125"L Three Female, 16R24-1 16R24-1 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 .UR 1 .UR 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR |
| Max Ampacity: 400A Voltage: 600V AC/DC | Yellow White Black Brown Red Blue | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UB 1 | 16R29-UY ermination ® © Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB |
| Max Ampacity: 400A Voltage: 600V AC/DC | White Black Brown Red Blue Orange | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB 16R23-1UO | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UB 1 .UB 1 .UB 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO |
| Max Ampacity: 400A Voltage: 600V AC/DC | White Black Brown Red Blue Orange Green | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY | 16R24-UY 1.125"L Three Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UB 1 .UB 1 .UO 1 .UG 1 .UG 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC | White Black Brown Red Blue Orange Green | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w | 16R24-UY 1.125"L Three Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 | 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UB 1 .UO 1 .UG 1 .UG 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC | Yellow White Black Brown Red Blue Orange Green Yellow | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w Male, 90° | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 | aded Stud** Te 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UB 1 .UO 1 .UG 1 .UG 1 .UY 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC UL/CSA 1691 Listed Cable Size: #2 - 4/0 | White Black Brown Red Blue Orange Green Yellow | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UB 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w Male, 90° 16R19-UW | 16R24-UY 1.125"L Threa Female, 16R24-1 | aded Stud** Te 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UO 1 .UO 1 .UG 1 .UY 1 © © 90° JW UE | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC UL/CSA 1691 Listed Cable Size: #2 - 4/0 Max Ampacity: 400A | White Black Brown Red Blue Orange Green Yellow White Black | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w Male, 90° 16R19-UW 16R19-UE | 16R24-UY 1.125"L Three Female, 16R24-1 | aded Stud** Te | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC UL/CSA 1691 Listed Cable Size: #2 - 4/0 | White Black Brown Red Blue Orange Green Yellow White Black Brown | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UR 16R23-1UB 16R23-1UG 16R23-1UG 16R23-1UY Half Round w Male, 90° 16R19-UW 16R19-UE 16R19-UH | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 | aded Stud** To 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UO 1 .UG 1 .UY 1 | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC UL/CSA 1691 Listed Cable Size: #2 - 4/0 Max Ampacity: 400A Voltage: 600V AC/DC | White Black Brown Red Blue Orange Green Yellow White Black Brown Red | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UB 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w Male, 90° 16R19-UW 16R19-UE 16R19-UH 16R19-UR | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R20-0 16R20-0 16R20-1 | aded Stud** Te 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UO 1 .UG 1 .UY 1 20 6 90° JW UE .JH UR UB | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |
| Max Ampacity: 400A Voltage: 600V AC/DC UL/CSA 1691 Listed Cable Size: #2 - 4/0 Max Ampacity: 400A | White Black Brown Red Blue Orange Green Yellow White Black Brown Red Blue | Male, 90° 16R23-1UW 16R23-1UE 16R23-1UH 16R23-1UB 16R23-1UB 16R23-1UO 16R23-1UG 16R23-1UY Half Round w Male, 90° 16R19-UW 16R19-UE 16R19-UH 16R19-UR 16R19-UB | 16R24-UY 1.125"L Threa Female, 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R24-1 16R20-0 16R20-0 16R20-1 16R20-1 | aded Stud** Te 90° UW 1 .UE 1 .UH 1 .UR 1 .UB 1 .UO 1 .UG 1 .UY | 16R29-UY ermination ® Self-Clinchin Male, 90° 6R25-1UW 6R25-1UE 6R25-1UH 6R25-1UR 6R25-1UB 6R25-1UB 6R25-1UO 6R25-1UG | ng Nut Female, 90° 16R26-1UW 16R26-1UE 16R26-1UH 16R26-1UR 16R26-1UB 16R26-1UO 16R26-1UG |

Note: Some items may require extended lead times; always consult with your local sales representative for current availability.

16R20-UY

16R19-UY

Yellow

^{**}Threaded stud termination type receptacles are available with custom stud lengths, from .75"L to 3.00"L. Please contact your local sales representative for ordering information and availability.

16 Series Receptacle Ordering Information

TERMINAL CONNECTORS

| | | | Bus Bar Mount 🕸 🎨 | | |
|----------------------|--------|-------------|-------------------|----------|--|
| | | Angled Male | Angled Female | Offset | |
| | White | 16M21-2UW | 16F21-UW | 16F22-UW | |
| | Black | 16M21-2UE | 16F21-UE | 16F22-UE | |
| Cable Size: #2 - 4/0 | Brown | 16M21-2UH | 16F21-UH | 16F22-UH | |
| Max Ampacity: 400A | Red | 16M21-2UR | 16F21-UR | 16F22-UR | |
| Voltage: 600V AC/DC | Blue | 16M21-2UB | 16F21-UB | 16F22-UB | |
| UL/CSA 1691 Listed | Orange | 16M21-2U0 | 16F21-U0 | 16F22-U0 | |
| | Green | 16M21-2UG | 16F21-UG | 16F22-UG | |
| | Yellow | 16M21-2UY | 16F21-UY | 16F22-UY | |

COVERS

| | Enclosure | Ca | ps |
|--------|-------------|----------|----------|
| | Male/Female | Male | Female |
| White | 16S31-UW | 16P21-UW | 16P22-UW |
| Black | 16S31-UE | 16P21-UE | 16P22-UE |
| Brown | 16S31-UH | 16P21-UH | 16P22-UH |
| Red | 16S31-UR | 16P21-UR | 16P22-UR |
| Blue | 16S31-UB | 16P21-UB | 16P22-UB |
| Orange | 16S31-UO | 16P21-U0 | 16P22-U0 |
| Green | 16S31-UG | 16P21-UG | 16P22-UG |
| Yellow | 16S31-UY | 16P21-UY | 16P22-UY |





16 Series Taper Nose Adapters - 400A, 600V AC/DC Max NEMA 3R Rated for Outdoor Use

Assembled Parallelling Tee (16A31-UE Shown)

Assembled 3-Fer (16A33-UB Shown)



Assembled Tapping Tee



Assembled Reverse 3-Fer



Double Male





Double Female (16A24-UB Shown)



Paralleling Tee (16A21-UY Shown)



Tapping Tee (16A22-UE Shown)



3-Fer (16A23-UB Shown)



Reversed 3-Fer (16A26-UG Shown)



16 Series Adapter Ordering Information

CAM-TYPE ADAPTERS (1) (6).

| | | Paralleling Tee F-M-M | Tapping Tee F-F-M | | |
|---------------------|--------|--------------------------|--------------------------|-------------------------|------------------------|
| | White | 16A21-UW | 16A22-UW | | |
| | Black | 16A21-UE | 16A22-UE | | |
| Max Ampacity: 400A | Brown | 16A21-UH | 16A22-UH | | |
| Voltage: 600V AC/DC | Red | 16A21-UR | 16A22-UR | | |
| | Blue | 16A21-UB | 16A22-UB | | |
| UL/CSA 1691 Listed | Orange | 16A21-UO | 16A22-U0 | | |
| | Green | 16A21-UG | 16A22-UG | | |
| | Yellow | 16A21-UY | 16A22-UY | | |
| | | 3-Fer M-F-F-F | Reverse 3-Fer F-M-M-M | Double Male | Double Female |
| | White | 16A23-UW | 16A26-UW | 16A25-UW | 16A24-UW |
| | Black | 16A23-UE | 16A26-UE | 16A25-UE | 16A24-UE |
| Max Ampacity: 400A | Brown | 16A23-UH | 16A26-UH | 16A25-UH | 16A24-UH |
| Voltage: 600V AC/DC | Red | 16A23-UR | 16A26-UR | 16A25-UR | 16A24-UR |
| | Blue | 16A23-UB | 16A26-UB | 16A25-UB | 16A24-UB |
| UL/CSA 1691 Listed | Orange | 16A23-U0 | 16A26-UO | 16A25-UO | 16A24-UO |
| | Green | 16A23-UG | 16A26-UG | 16A25-UG | 16A24-UG |
| | Yellow | 16A23-UY | 16A26-UY | 16A25-UY | 16A24-UY |
| | | Paralleling Tee F-M-M | Tapping Tee F-F-M | 3-Fer M-F-F-F | Reverse 3-Fer F-M-M |
| Assembled Adapters | White | 16A31-UW | 16A32-UW | 16A33-UW | 16A36-UW |
| Cable Size: 4/0 | Black | 16A31-UE | 16A32-UE | 16A33-UE | 16A36-UE |
| Max Ampacity: 400A | Red | 16A31-UR | 16A32-UR | 16A33-UR | 16A36-UR |
| Voltage: 600V AC/DC | Blue | 16A31-UB | 16A32-UB | 16A33-UB | 16A36-UB |
| UL/CSA 1691 Listed | Green | 16A31-UG | 16A32-UG | 16A33-UG | 16A36-UG |





16 Series Device Accessories

"Com-A-Long" Assembly Tools





Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims

A0004 (Sold 10 per package)



Strain Relief Wire

A0003 (Sold 10 per package)



Set Screws

A0002 (Sold 10 per package)



Plastic Screws

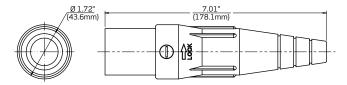
A0010 (Sold 10 per package)



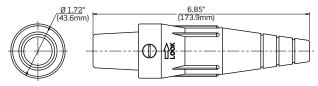
16 Series Device Technical Drawings

DIMENSIONS

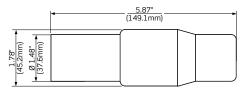
Male Detachable Plug



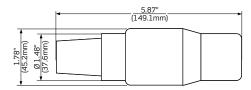
Female Detachable Plug



Male Vulcanized Plug

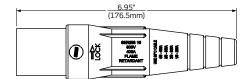


Female Vulcanized Plug



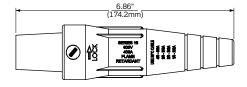
Male Detachable Plug - Flame Retardant



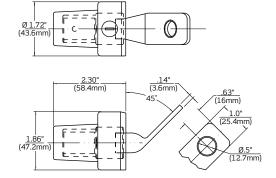


Female Detachable Plug - Flame Retardant

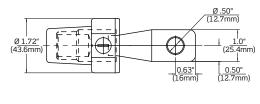


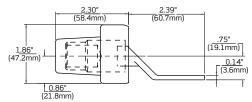


16F21 Female Terminal Connector

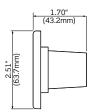


16F22 Female Terminal Connector

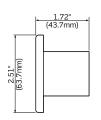




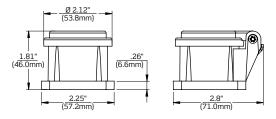
Male Protective Cap



Female Protective Cap



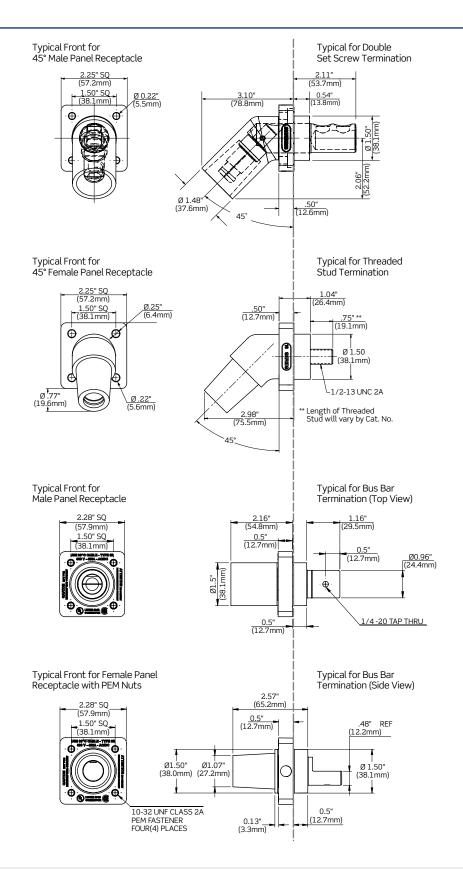
NEMA 3R Enclosure for Male and Female Panel Receptacles





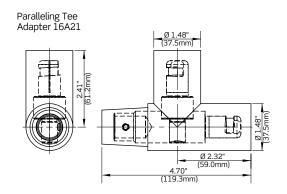
16 Series Device Technical Drawings

DIMENSIONS

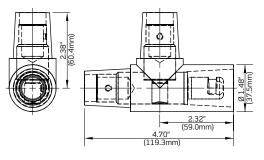


16 Series Device Technical Drawings

DIMENSIONS



Tapping Tee Adapter 16A22



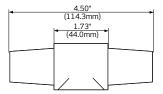
Double Female Adapter 16A24



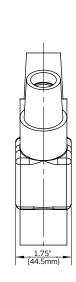


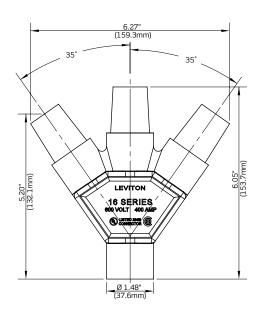
Double Male Adapter 16A25



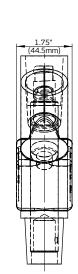


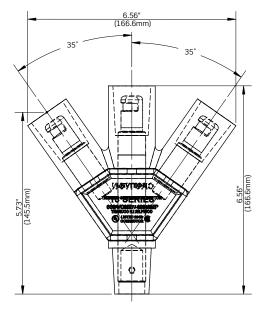
3-Fer Adapter 16A23





Reverse 3-Fer Adapter 16A26

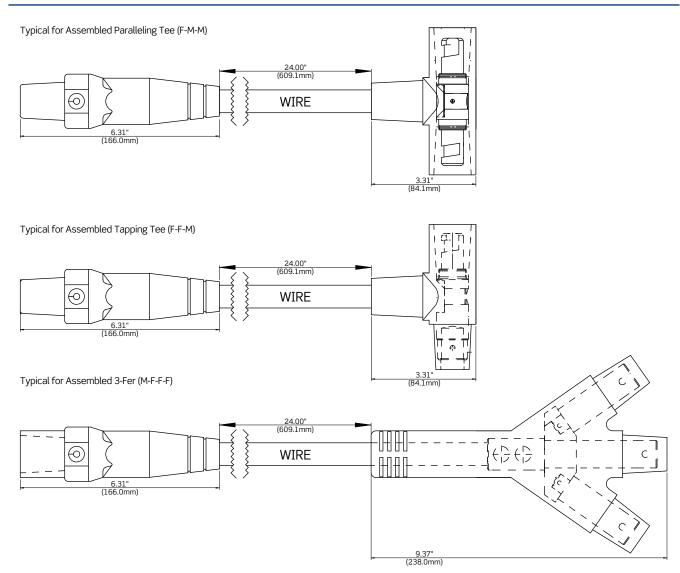






16 Series Device Technical Drawings

DIMENSIONS



AMPACITY TABLE

| Cable Size | Ampacity |
|------------|----------|
| #6 | 105 |
| #4 | 140 |
| #2 | 190 |
| #1 | 220 |
| 1/0 | 260 |
| 2/0 | 300 |
| 3/0 | 350 |
| 4/0 | 405 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

18 Series Ball Nose Devices - 400A, 600V AC/DC Max NEMA 3R Rated for Outdoor Use

Male Plug - Double Set Screw Termination (18D24-UE Shown)



Female Plug - Double Set Screw Termination (18D33-UR Shown)



Male Plug - Single Set Screw Termination Contact (From 18D21-U* Shown)



Female Plug - Single Set Screw Termination Contact (From 18D29-U* Shown)



Male Panel Mount Receptacle - 75" Threaded Stud

(18R21-UB Shown)



Female Panel Mount Receptacle - Double Set Screw

(18R24-UG Shown)



Male Panel Mount Receptacle - Double Set Screw

(18R23-UH Shown)



Female Terminal Connector - Angled (18F21-UW Shown)



Female Terminal Connector - Offset (18F22-UE Shown)





18 Series Devices



Female **Protective Cap** (18P22-UB Shown)

Paralleling Tee Adapter (18A21-UE Shown)



Double Female Adapter (18A24-UE Shown)



Tapping Tee Adapter (18A22-U0 Shown)



Double Male Adapter (18A25-UR Shown)



3-Fer (MFFF) Adapter





18 Series Device Ordering Information

CAM-TYPE PLUGS

| | | Single Set Screw Male Plug | r Termination ® ® Female Plug | Double Set Screw Male Plug | r Termination (1) (1) Female Plug |
|---|-------------------------------|---|---|---|---|
| | White | 18D21-UW | 18D29-UW | 18D22-UW | 18D31-UW |
| | Black | 18D21-UE | 18D29-UE | 18D22-UE | 18D31-UE |
| Cable Size: #2 - 2/0 | Brown | 18D21-UH | 18D29-UH | 18D22-UH | 18D31-UH |
| Max Ampacity: 300A | Red | 18D21-UR | 18D29-UR | 18D22-UR | 18D31-UR |
| Voltage: 600V AC/DC | Blue | 18D21-UB | 18D29-UB | 18D22-UB | 18D31-UB |
| UL/CSA 1691 Listed | Orange | 18D21-U0 | 18D29-UO | 18D22-U0 | 18D31-U0 |
| | Green | 18D21-UG | 18D29-UG | 18D22-UG | 18D31-UG |
| | Yellow | 18D21-UY | 18D29-UY | 18D22-UY | 18D31-UY |
| | | | | | |
| | | Single Set Screw Male Plug | Termination (1) (6) Female Plug | Double Set Screw Male Plug | / Termination ® ® Female Plug |
| | White | • | | | |
| | White Black | Male Plug | Female Plug | Male Plug | Female Plug |
| Cable Size: 2/0 - 4/0 | | Male Plug 18D23-UW | Female Plug 18D32-UW | Male Plug 18D24-UW | Female Plug 18D33-UW |
| Max Ampacity: 400A | Black | Male Plug 18D23-UW 18D23-UE | Female Plug 18D32-UW 18D32-UE | Male Plug 18D24-UW 18D24-UE | Female Plug 18D33-UW 18D33-UE |
| | Black Brown | Male Plug 18D23-UW 18D23-UE 18D23-UH | Female Plug 18D32-UW 18D32-UE 18D32-UH | Male Plug 18D24-UW 18D24-UE 18D24-UH | Female Plug 18D33-UW 18D33-UE 18D33-UH |
| Max Ampacity: 400A | Black Brown Red | Male Plug 18D23-UW 18D23-UE 18D23-UH 18D23-UR | Female Plug 18D32-UW 18D32-UE 18D32-UH 18D32-UR | Male Plug 18D24-UW 18D24-UE 18D24-UH 18D24-UR | Female Plug 18D33-UW 18D33-UE 18D33-UH 18D33-UR |
| Max Ampacity: 400A Voltage: 600V AC/DC | Black Brown Red Blue | Male Plug 18D23-UW 18D23-UE 18D23-UH 18D23-UR 18D23-UB | Female Plug 18D32-UW 18D32-UE 18D32-UH 18D32-UR 18D32-UB | Male Plug 18D24-UW 18D24-UE 18D24-UH 18D24-UR 18D24-UB | Female Plug 18D33-UW 18D33-UE 18D33-UH 18D33-UR 18D33-UB |

CAM-TYPE PANEL MOUNT RECEPTACLES

| | .7 | 75"L Threaded St Male, 90° | ud Termination ® ® Female, 90° | |
|----------------------|--------|-------------------------------|-----------------------------------|--|
| | White | 18R21-UW | 18R22-UW | |
| | Black | 18R21-UE | 18R22-UE | |
| Cable Size: #2 - 4/0 | Brown | 18R21-UH | 18R22-UH | |
| Max Ampacity: 400A | Red | 18R21-UR | 18R22-UR | |
| Voltage: 600V AC/DC | Blue | 18R21-UB | 18R22-UB | |
| UL/CSA 1691 Listed | Orange | 18R21-UO | 18R22-UO | |
| | Green | 18R21-UG | 18R22-UG | |
| | Yellow | 18R21-UY | 18R22-UY | |

| | | Double Set Screw Male, 90° | v Termination (1) (6) Female, 90° |
|-----------------------|--------|-------------------------------|--------------------------------------|
| | White | 18R23-UW | 18R24-UW |
| | Black | 18R23-UE | 18R24-UE |
| Cable Size: 2/0 - 4/0 | Brown | 18R23-UH | 18R24-UH |
| Max Ampacity: 400A | Red | 18R23-UR | 18R24-UR |
| Voltage: 600V AC/DC | Blue | 18R23-UB | 18R24-UB |
| UL/CSA 1691 Listed | Orange | 18R23-U0 | 18R24-UO |
| | Green | 18R23-UG | 18R24-UG |
| | Yellow | 18R23-UY | 18R24-UY |



18 Series Device Ordering Information

FEMALE TERMINAL CONNECTORS

| | | Bus Bar M | lount ® ® |
|----------------------|--------|-----------|-----------|
| | | Angle | Offset |
| | White | 18F21-UW | 18F22-UW |
| | Black | 18F21-UE | 18F22-UE |
| Cable Size: #2 - 4/0 | Brown | 18F21-UH | 18F22-UH |
| Max Ampacity: 400A | Red | 18F21-UR | 18F22-UR |
| Voltage: 600V AC/DC | Blue | 18F21-UB | 18F22-UB |
| UL/CSA 1691 Listed | Orange | 18F21-U0 | 18F22-U0 |
| | Green | 18F21-UG | 18F22-UG |
| | Yellow | 18F21-UY | 18F22-UY |

COVERS

| | C | Caps |
|--------|----------|----------|
| | Male | Female |
| White | 18P21-UW | 18P22-UW |
| Black | 18P21-UE | 18P22-UE |
| Brown | 18P21-UH | 18P22-UH |
| Red | 18P21-UR | 18P22-UR |
| Blue | 18P21-UB | 18P22-UB |
| Orange | 18P21-U0 | 18P22-U0 |
| Green | 18P21-UG | 18P22-UG |
| Yellow | 18P21-UY | 18P22-UY |

CAM-TYPE ADAPTERS

| | | Paralleling Tee ® F-M-M | Tapping Tee ® 🚱 F-F-M | |
|---------------------|----------------|-----------------------------|--------------------------|-------------------|
| | White | 18A21-UW | 18A22-UW | |
| | Black | 18A21-UE | 18A22-UE | |
| Max Ampacity: 400A | Brown | 18A21-UH | 18A22-UH | |
| Voltage: 600V AC/DC | Red | 18A21-UR | 18A22-UR | |
| | Blue | 18A21-UB | 18A22-UB | |
| UL/CSA 1691 Listed | Orange | 18A21-UO | 18A22-UO | |
| | Green | 18A21-UG | 18A22-UG | |
| | Yellow | 18A21-UY | 18A22-UY | |
| | | 3-Fer ® ® M-F-F-F | Double Male (1) (6) | Double Female ® ® |
| | White | 18A23-UW | 18A25-UW | 18A24-UW |
| | Black | 18A23-UE | 18A25-UE | 18A24-UE |
| Max Ampacity: 400A | Brown | 18A23-UH | 18A25-UH | 18A24-UH |
| Voltage: 600V AC/DC | Red | 18A23-UR | 18A25-UR | 18A24-UR |
| | | 10400 LID | 10405 LID | 18A24-UB |
| | Blue | 18A23-UB | 18A25-UB | 10AZ4-UD |
| UL/CSA 1691 Listed | Blue Orange | 18A23-UB 18A23-UO | 18A25-UB 18A25-UO | 18A24-UO |
| UL/CSA 1691 Listed | | | | |

Single Pole Cam Devices

rhino-hide®

Cam-Type

18 Series Accessories

"Com-A-Long" Assembly Tools

16CLM-U for Female Plug





Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims A0004 (Sold 10 per package)



Strain Relief Wire A0003 (Sold 10 per package)



Set Screws A0002 (Sold 10 per package)



Plastic Screws A0010 (Sold 10 per package)

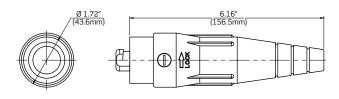




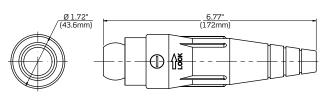
18 Series Device Technical Drawings

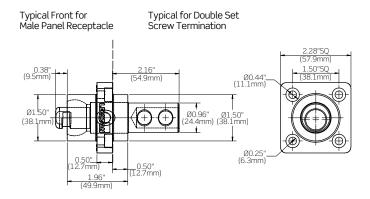
DIMENSIONS

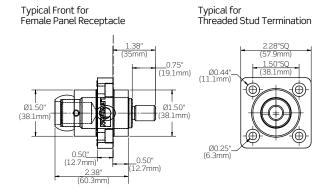
Male Detachable Plug



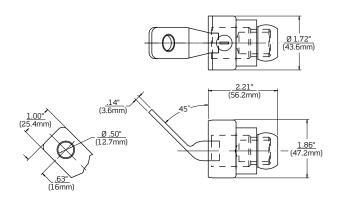
Female Detachable Plug



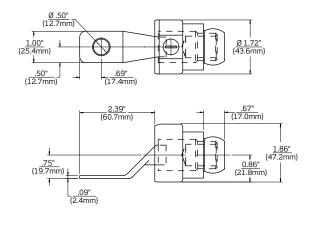




18F21 Female Terminal Connector - Bus Bar Mount, Angled



18F22 Female Terminal Connector - Bus Bar Mount, Offset







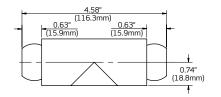
18P22 Female

18 Series Device Technical Drawings

DIMENSIONS

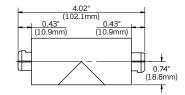
18A25 Double Male Adapter



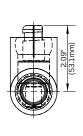


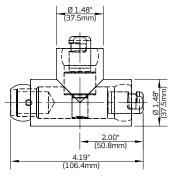
18A24 Double Female Adapter



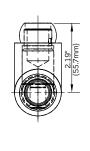


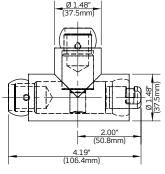
Paralleling Tee Adapter



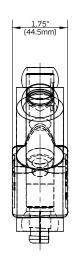


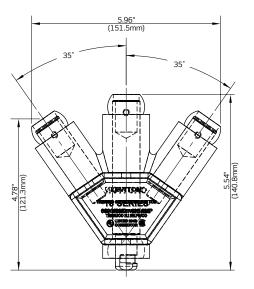
Tapping Tee Adapter





3-Fer Adapter





AMPACITY TABLE

| Cable Size | Ampacity |
|------------|----------|
| #2 | 190 |
| 1/0 | 260 |
| 2/0 | 300 |
| 4/0 | 405 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column



Industrial Grade

17 Series Taper Nose Devices - 690A, 600V Max

Male Plug - Double Set Screw Termination



Female Plug - Double Set Screw Termination



Male Vulcanized Plug - Crimp Tube Termination, Neoprene Sleeve (17V23-E Shown)



Female Vulcanized Plug - Crimp Tube Termination, Neoprene Sleeve (17D26-B Shown)



Male Panel Mount Receptacle - 90° Threaded Stud **Termination** (17R21-G Shown)



Female Panel Mount Receptacle - 30° Threaded Stud **Termination** (17R24-R Shown)



NEMA 3R Enclosure



Single Pole Cam Devices

rhino-hide®

Industrial Grade

17 Series Devices





17 Series Accessories

"Com-A-Long" Assembly Tools





Lubricating Spray C0001 for 16 Fl. Oz. Can



17 Series Device Ordering Information

CAM-TYPE PLUGS

| | | Double Set Sc | rew Termination |
|---|--------|--------------------|-----------------|
| | | Male Plug | Female Plug |
| | White | 17D22-W | 17D24-W |
| | Black | 17D22-E | 17D24-E |
| Cable Size: 350-500MCM | Brown | 17D22-H | 17D24-H |
| Max Ampacity: 690A Voltage: 600V | Red | 17D22-R | 17D24-R |
| Neoprene Sleeve | Blue | 17D22-B | 17D24-B |
| Detachable | Orange | 17D22-0 | 17D24-0 |
| | Green | 17D22-G | 17D24-G |
| | Yellow | 17D22-Y | 17D24-Y |
| | | Crimn Tube | Termination |
| | | Male Plug | Female Plug |
| | White | 17V23-W | 17V26-W |
| | Black | 17V23-E | 17V26-E |
| Cable Size: 500-750MCM | Brown | 17V23-H | 17V26-H |
| Max Ampacity: 690A | Red | 17V23-R | 17V26-R |
| Voltage: 600V Blu Neoprene Sleeve Orang | Blue | 17V23-B | 17V26-B |
| | Orango | 17V23-0 | 17V26-0 |
| | Orange | 17723-0 | 17 7 20 0 |
| | Green | 17V23-0 17V23-G | 17V26-G |

CAM-TYPE PANEL MOUNT RECEPTACLES

| | | | Threaded Stud | d Termination | |
|-------------------------------------|--------|-----------|---------------|---------------|-------------|
| | | Male, 90° | Female, 90° | Male, 30° | Female, 30° |
| | White | 17R21-W | 17R22-W | 17R23-W | 17R24-W |
| | Black | 17R21-E | 17R22-E | 17R23-E | 17R24-E |
| | Brown | 17R21-H | 17R22-H | 17R23-H | 17R24-H |
| Cable Size: 250-750MCM | Red | 17R21-R | 17R22-R | 17R23-R | 17R24-R |
| Max Ampacity: 690A Voltage: 600V | Blue | 17R21-B | 17R22-B | 17R23-B | 17R24-B |
| Voltage: 000 V | Orange | 17R21-0 | 17R22-0 | 17R23-0 | 17R24-0 |
| | Green | 17R21-G | 17R22-G | 17R23-G | 17R24-G |
| | Yellow | 17R21-Y | 17R22-Y | 17R23-Y | 17R24-Y |

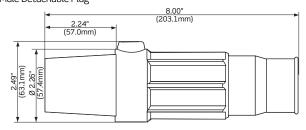
COVERS

| | NEMA 3R Enclosure ® ® | Ca | ps |
|--------|-----------------------|---------|---------|
| | Male/Female | Male | Female |
| White | 17S31-W | 17P21-W | 17P22-W |
| Black | 17S31-E | 17P21-E | 17P22-E |
| Brown | 17S31-H | 17P21-H | 17P22-H |
| Red | 17S31-R | 17P21-R | 17P22-R |
| Blue | 17S31-B | 17P21-B | 17P22-B |
| Orange | 17S31-0 | 17P21-O | 17P22-0 |
| Green | 17S31-G | 17P21-G | 17P22-G |
| Yellow | 17S31-Y | 17P21-Y | 17P22-Y |

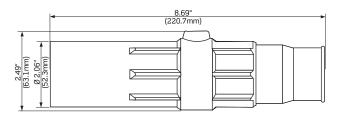
17 Series Technical Drawings

DIMENSIONS

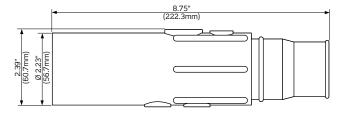




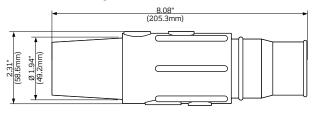
Female Detachable Plug



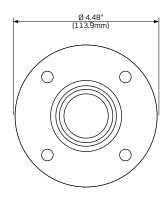
Male Vulcanized Plug



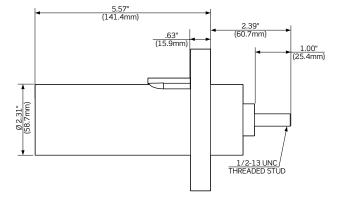
Female Vulcanized Plug



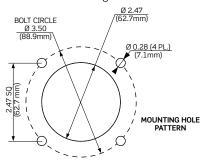
Front View 90° Panel Receptacle - Threaded Stud Common to Both Male & Female Configurations



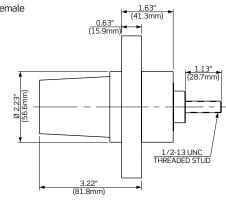
Side View - Male



Mounting Pattern Common to Both Male & Female Configurations



Side View - Female

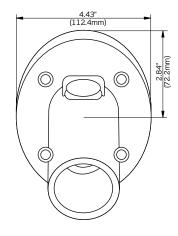




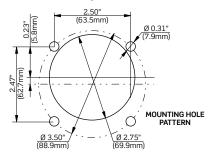
17 Series Technical Drawings

DIMENSIONS

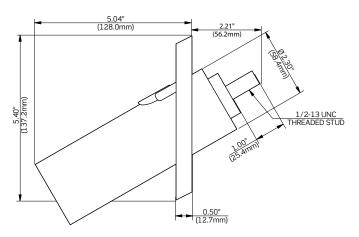
Front View 30° Panel Receptacle - Threaded Stud Common to Both Male & Female Configurations

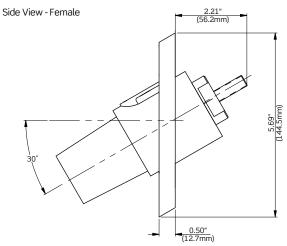


Mounting Pattern Common to Both Male & Female Configurations

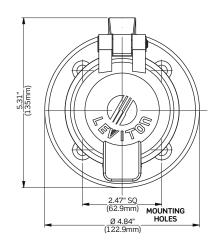


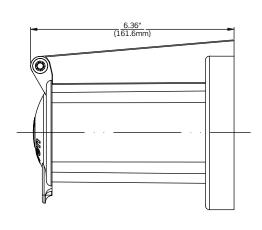
Side View - Male





Protective Cover for 90° 17/19 Series Receptacles





Single Pole Cam Devices

rhino-hide®

Industrial Grade

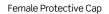
17 Series Technical Specifications

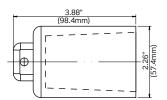
DIMENSIONS

Male Protective Cap

3.29"
(83.6mm)
2.27"
(57.6mm)

(57.6mm)





AMPACITY TABLE

| Cable Size | Ampacity |
|------------|----------|
| 250 | 455 |
| 350 | 570 |
| 500 | 700 |
| 750 | 885 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column



19 Series Ball Nose Devices - 690A, 600V Max

Male Plug - Double Set Screw Termination

(19D22-G Shown)



Female Plug - Double Set Screw Termination

(19D24-B Shown)



Male Panel Mount Receptacle - 90° Threaded Stud Termination

(19R21-H Shown)



Female Panel Mount Receptacle - 90° Threaded Stud Termination

(19R22-E Shown)



Male Protective Cap

(19P21-R Shown)



Female Protective Cap

(19P22-0 Shown)



19 Series Accessories

"Com-A-Long" Assembly Tools

17CLM for Female Plug



17CLF for Male Plug



Lubricating Spray

C0001 for 16 Fl. Oz. Can



19 Series Device Ordering Information

CAM-TYPE PLUGS

| | | Double Set Sc Male Plug | rew Termination Female Plug |
|------------------------|--------------------|-----------------------------------|--------------------------------|
| | White | 19D22-W | 19D24-W |
| | Black | 19D22-E | 19D24-E |
| | Brown | 19D22-H | 19D24-H |
| Cable Size: 350-500MCM | Red | 19D22-R | 19D24-R |
| Voltage: 600V | Max Ampacity: 690A | 19D22-B | 19D24-B |
| 1012001 0004 | Orange | 19D22-0 | 19D24-0 |
| | Green | 19D22-G | 19D24-G |
| | Yellow | 19D22-Y | 19D24-Y |

CAM-TYPE PANEL MOUNT RECEPTACLES

| | | 1.00"L Threade | d Stud Termination Female, 90° | |
|-------------------------------------|--------|----------------|-----------------------------------|--|
| | White | 19R21-W | 19R22-W | |
| | Black | 19R21-E | 19R22-E | |
| | Brown | 19R21-H | 19R22-H | |
| Cable Size: 250-750MCM | Red | 19R21-R | 19R22-R | |
| Max Ampacity: 690A Voltage: 600V | Blue | 19R21-B | 19R22-B | |
| 70.000 | Orange | 19R21-0 | 19R22-0 | |
| | Green | 19R21-G | 19R22-G | |
| | Yellow | 19R21-Y | 19R22-Y | |

COVERS

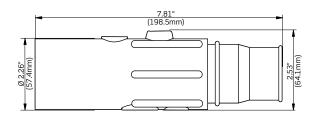
| | С | aps | |
|--------|---------|---------|--|
| | Male | Female | |
| White | 19P21-W | 19P22-W | |
| Black | 19P21-E | 19P22-E | |
| Brown | 19P21-H | 19P22-H | |
| Red | 19P21-R | 19P22-R | |
| Blue | 19P21-B | 19P22-B | |
| Orange | 19P21-O | 19P22-0 | |
| Green | 19P21-G | 19P22-G | |
| Yellow | 19P21-Y | 19P22-Y | |



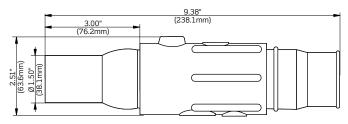
19 Series Technical Drawings

DIMENSIONS

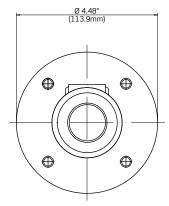
Male Detachable Plug - Double Set Screw



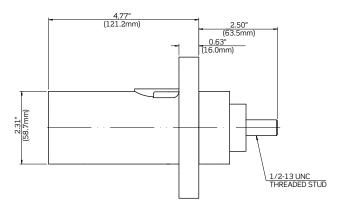
Female Detachable Plug - Double Set Screw



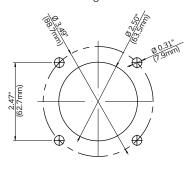
Front View 90° Panel Receptacle Common to Both Male & Female Configurations



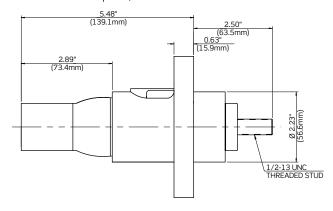
Side View 90° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations



Side View 90° Female Panel Receptacle, Threaded Stud



AMPACITY TABLE

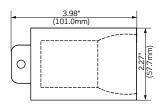
| Cable Size | Ampacity |
|------------|----------|
| 250 | 455 |
| 350 | 570 |
| 500 | 700 |
| 750 | 885 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

Male Protective Cap

3.79"
(96.3mm)
1.27"
(32.1mm)

Female Protective Cap



22 Series Latching Ball Nose Devices - 690A, 600V Max

Male Plug - Crimp Tube Termination, Neoprene Sleeve (22L21-R Shown)



Male Plug - Crimp Tube Termination, TPV Sleeve (22L22-SE Shown)



Female Plug - Crimp Tube Termination, Neoprene Sleeve (22L25-E Shown)



Female Plug - Crimp Tube Termination, TPV Sleeve (22L25-SR Shown)





Male Panel Mount
Receptacle - 90°
Threaded Stud
(22R21-E Shown)

Male Panel Mount Receptacle -30° Threaded Stud (22R23-E Shown)



Female Panel Mount
Receptacle - 90°
Threaded Stud
(22R22-R Shown)

Female Panel Mount Receptacle -30° Threaded Stud (22R24-E Shown)





22 Series Latching Ball Nose Devices - 690A, 600V Max



Male Protective Cap (22P21-E Shown)



Female Protective Cap (22P22-E Shown)



22 Series Accessories

"Com-A-Long" Assembly Tools 17CLM for Female Plug



17CLF for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



22 Series Device Ordering Information

CAM-TYPE PLUGS

| Crimp Tube Termination | | | | |
|---|--------|-------------------------|----------------------------|--|
| | | Male Plug | Female Plug | |
| | White | 22L21-W | 22L24-W | |
| | Black | 22L21-E | 22L24-E | |
| Cable Size: 250-350MCM | Brown | 22L21-H | 22L24-H | |
| Max Ampacity: 570A | Red | 22L21-R | 22L24-R | |
| /oltage: 600V | Blue | 22L21-B | 22L24-B | |
| Neoprene Sleeve | Orange | 22L21-0 | 22L24-0 | |
| | Green | 22L21-G | 22L24-G | |
| | Yellow | 22L21-Y | 22L24-Y | |
| | | Crimp Tube Male Plug | Termination Female Plug | |
| | White | 22L22-W | 22L25-W | |
| | Black | 22L22-E | 22L25-E | |
| Cable Size, 250 500MCM | Brown | 22L22-H | 22L25-H | |
| Cable Size: 350-500MCM Max Ampacity: 690A | Red | 22L22-R | 22L25-R | |
| /oltage: 600V | Blue | 22L22-B | 22L25-B | |
| Neoprene Sleeve | Orange | 22L22-0 | 22L25-0 | |
| | Green | 22L22-G | 22L25-G | |
| | Yellow | 22L22-Y | 22L25-Y | |
| | | Crimp Tube Male Plug | Termination Female Plug | |
| | White | 22L22-SW | 22L25-SW | |
| | Black | 22L22-SE | 22L25-SE | |
| Cable Size: 350-500MCM | Brown | 22L22-SH | 22L25-SH | |
| Max Ampacity: 690A | Red | 22L22-SR | 22L25-SR | |
| /oltage: 600V | Blue | 22L22-SB | 22L25-SB | |
| TPV Sleeve | Orange | 22L22-S0 | 22L25-S0 | |
| | Green | 22L22-SG | 22L25-SG | |
| | Yellow | 22L22-SY | 22L25-SY | |
| | | Crimp Tube Male Plug | Termination Female Plug | |
| | White | 22L23-W | 22L26-W | |
| | Black | 22L23-E | 22L26-E | |
| Cable Size: 500-750MCM | Brown | 22L23-H | 22L26-H | |
| Max Ampacity: 690A | Red | 22L23-R | 22L26-R | |
| /oltage: 600V | Blue | 22L23-B | 22L26-B | |
| Neoprene Sleeve | Orange | 22L23-0 | 22L26-0 | |
| | Green | 22L23-G | 22L26-G | |
| | Yellow | 22L23-Y | 22L26-Y | |



22 Series Device Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLES

| | | | Stud Termination | Mala 20° | Famala 20° |
|-------------------------------------|--------|-----------|------------------|-----------|-------------|
| | | Male, 90° | Female, 90° | Male, 30° | Female, 30° |
| | White | 22R21-W | 22R22-W | 22R23-W | 22R24-W |
| | Black | 22R21-E | 22R22-E | 22R23-E | 22R24-E |
| | Brown | 22R21-H | 22R22-H | 22R23-H | 22R24-H |
| Cable Size: 250-750MCM | Red | 22R21-R | 22R22-R | 22R23-R | 22R24-R |
| Max Ampacity: 690A Voltage: 600V | Blue | 22R21-B | 22R22-B | 22R23-B | 22R24-B |
| voitage: 000 v | Orange | 22R21-0 | 22R22-0 | 22R23-0 | 22R24-0 |
| | Green | 22R21-G | 22R22-G | 22R23-G | 22R24-G |
| | Yellow | 22R21-Y | 22R22-Y | 22R23-Y | 22R24-Y |

1.00"L Threaded Stud Termination Female, 15° w/microswitch

| Cable Size: 250-750MCM | White | 22R26-W | 22R28-W | |
|------------------------|-------|---------|---------|--|
| Max Ampacity: 690A | Black | 22R26-E | 22R28-E | |
| Voltage: 600V | Red | 22R26-R | 22R28-R | |

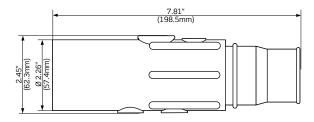
COVERS

| Caps | | |
|--------|---------|---------|
| | Male | Female |
| White | 22P21-W | 22P22-W |
| Black | 22P21-E | 22P22-E |
| Brown | 22P21-H | 22P22-H |
| Red | 22P21-R | 22P22-R |
| Blue | 22P21-B | 22P22-B |
| Orange | 22P21-0 | 22P22-0 |
| Green | 22P21-G | 22P22-G |
| Yellow | 22P21-Y | 22P22-Y |

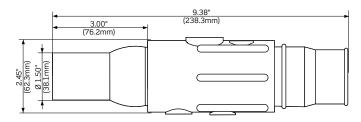
22 Series Device Technical Drawings

DIMENSIONS

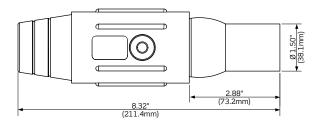
Ball Nose In-line Latching Male Plugs



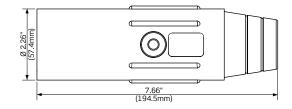
Ball Nose In-line Latching Female Plugs



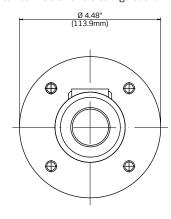
Ball Nose In-line Latching Male Plugs S-Series



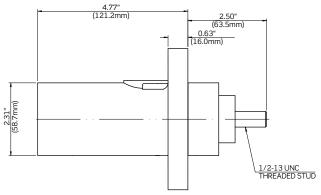
Ball Nose In-line Latching Female Plugs S-Series



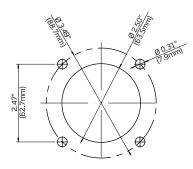
Front View 90° Male Panel Receptacle Common to Both Male & Female Configurations



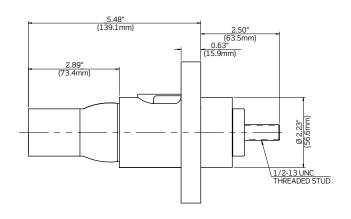
Side View 90° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations



Side View 90° Female Panel Receptacle, Threaded Stud

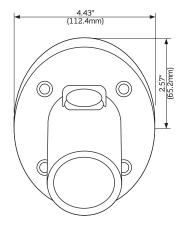


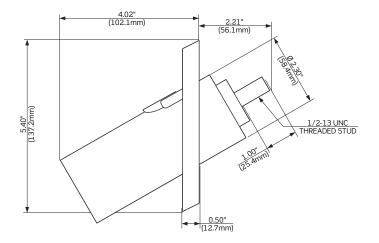


22 Series Device Technical Drawings

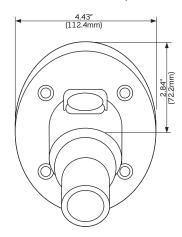
DIMENSIONS

Front View 30° Male Panel Receptacle



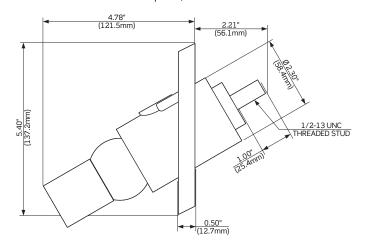


Front View 30° Female Panel Receptacle

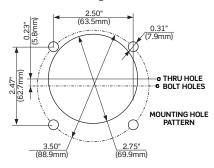


Side View 30° Female Panel Receptacle, Threaded Stud

Side View 30° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations

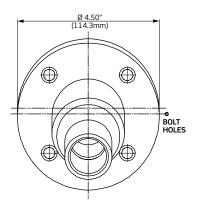


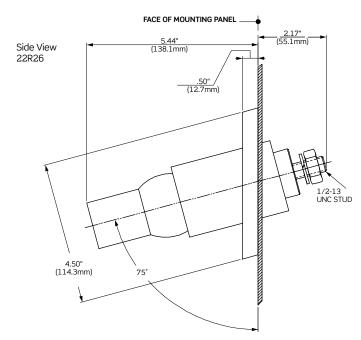
22 Series Device Technical Drawings

DIMENSIONS

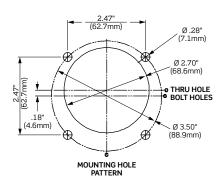
15° Panel Receptacle with Latching Ball Nose

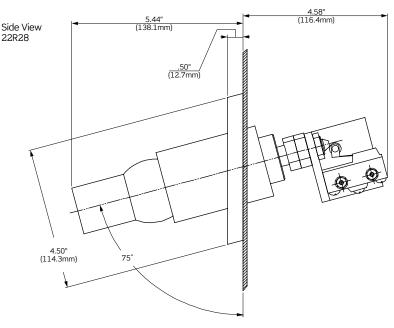
Front View, Common to 22R26 and 22R28 Configurations





Mounting Hole Pattern, Common to 22R26 and 22R28 Configurations

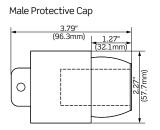


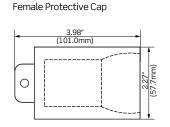


AMPACITY TABLE

| Cable Size | Ampacity |
|------------|----------|
| 250 | 455 |
| 350 | 570 |
| 500 | 700 |
| 750 | 885 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column









23 Series Latching Taper Nose Plugs - 690A, 600V Max

Male Plug - Latching Taper Nose, **Crimp Tube Termination**

(23L23-E Shown)



Female Plug - Latching Taper Nose, **Crimp Tube Termination** (23L26-R Shown)



Male Panel Receptacle -30° Tapered Nose, Threaded Stud



Female Panel Receptacle -30° Tapered Nose, Threaded Stud

(23R24-H Shown)



Protective Cap (23P21-0 Shown)



Female **Protective Cap** (23P22-H Shown)



23 Series Accessories



17CLF for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



23 Series Device Ordering Information

CAM-TYPE PLUGS

| | | Crimp Tube | Termination Female Plug |
|--|-------------------------------|---|---|
| | White | 23L22-W | 23L25-W |
| | Black | 23L22-W 23L22-E | 23L25-W |
| | Brown | 23L22-E 23L22-H | 23L25-H |
| Cable Size: 350-500MCM | | | |
| Max Ampacity: 690A | Red | 23L22-R | 23L25-R |
| Voltage: 600V Neoprene Sleeve | Blue | 23L22-B | 23L25-B |
| Neopielle Steeve | Orange | 23L22-0 | 23L25-0 |
| | Green | 23L22-G | 23L25-G |
| | Yellow | 23L22-Y | 23L25-Y |
| | | | |
| | | Crimp Tube | Termination |
| | | Crimp Tube Male Plug | Termination Female Plug |
| | White | • | |
| | White Black | Male Plug | Female Plug |
| Cable Size: 500-750MCM | | Male Plug 23L23-W | Female Plug 23L26-W |
| Cable Size: 500-750MCM Max Ampacity: 690A | Black | Male Plug 23L23-W 23L23-E | Female Plug 23L26-W 23L26-E |
| Max Ampacity: 690A Voltage: 600V | Black Brown | Male Plug 23L23-W 23L23-E 23L23-H | 23L26-W 23L26-E 23L26-H |
| Max Ampacity: 690A | Black Brown Red | Male Plug 23L23-W 23L23-E 23L23-H 23L23-R | 23L26-W 23L26-E 23L26-H 23L26-R |
| Max Ampacity: 690A Voltage: 600V | Black Brown Red Blue | Male Plug 23L23-W 23L23-E 23L23-H 23L23-R 23L23-B | 23L26-W 23L26-E 23L26-H 23L26-R 23L26-B |

CAM-TYPE PANEL MOUNT RECEPTACLES

| | | | Stud Termination | |
|-------------------------------------|--------|-----------|------------------|--|
| | | Male, 30° | Female, 30° | |
| | White | 23R23-W | 23R24-W | |
| | Black | 23R23-E | 23R24-E | |
| | Brown | 23R23-H | 23R24-H | |
| Cable Size: 250-750MCM | Red | 23R23-R | 23R24-R | |
| Max Ampacity: 690A Voltage: 600V | Blue | 23R23-B | 23R24-B | |
| voicage. 000 v | Orange | 23R23-0 | 23R24-0 | |
| | Green | 23R23-G | 23R24-G | |
| | Yellow | 23R23-Y | 23R24-Y | |

COVERS

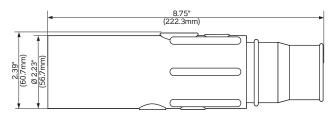
| | C | aps | |
|--------|---------|---------|--|
| | Male | Female | |
| White | 23P21-W | 23P22-W | |
| Black | 23P21-E | 23P22-E | |
| Brown | 23P21-H | 23P22-H | |
| Red | 23P21-R | 23P22-R | |
| Blue | 23P21-B | 23P22-B | |
| Orange | 23P21-0 | 23P22-0 | |
| Green | 23P21-G | 23P22-G | |
| Yellow | 23P21-Y | 23P22-Y | |



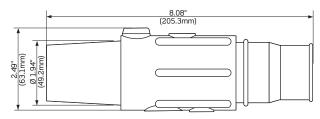
23 Series Technical Drawings

DIMENSIONS

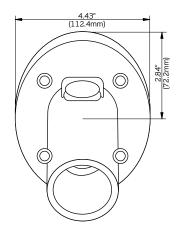
Taper Nose In-line Latching Male Plugs - Vulcanized



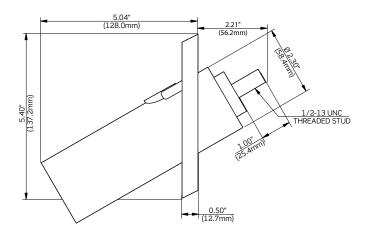
Taper Nose In-line Latching Female Plugs - Vulcanized



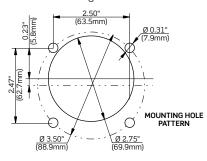
Front View 30° Panel Receptacle

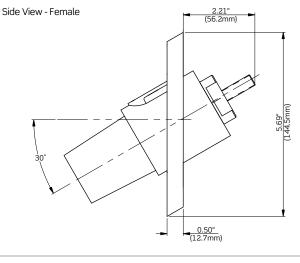


Side View - Male



Mounting Pattern Common to Both Male & Female Configurations



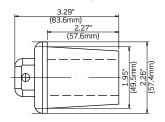


AMPACITY TABLE

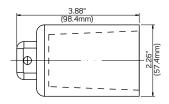
| Cable Size | Ampacity |
|------------|----------|
| 250 | 455 |
| 350 | 570 |
| 500 | 700 |
| 750 | 885 |

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

Male Protective Cap



Female Protective Cap



49 Series Male and Female Plugs, 1135A Max



Industrial Grade

49 Series Panel Mounted Receptacles, 1135A Max





Industrial Grade

49 Series Device Ordering Information

MALE PLUGS

| Max Ampacity | 636A | 796A | 898A | 1009A | 1135A | Replacement |
|-----------------------|----------|----------|----------|----------|----------|-------------|
| Conductor Size | 313 MCM | 444 MCM | 535 MCM | 646 MCM | 777 MCM | Sleeve |
| White | 49M31-W | 49M44-W | 49M53-W | 49M64-W | 49M77-W | 49MSL-W |
| Black | 49M31-E | 49M44-E | 49M53-E | 49M64-E | 49M77-E | 49MSL-E |
| Brown | 49M31-H | 49M44-H | 49M53-H | 49M64-H | 49M77-H | 49MSL-H |
| Red | 49M31-R | 49M44-R | 49M53-R | 49M64-R | 49M77-R | 49MSL-R |
| Blue | 49M31-B | 49M44-B | 49M53-B | 49M64-B | 49M77-B | 49MSL-B |
| Orange | 49M31-0 | 49M44-0 | 49M53-0 | 49M64-0 | 49M77-0 | 49MSL-0 |
| Green | 49M31-G | 49M44-G | 49M53-G | 49M64-G | 49M77-G | 49MSL-G |
| Yellow | 49M31-Y | 49M44-Y | 49M53-Y | 49M64-Y | 49M77-Y | 49MSL-Y |
| Purple | 49M31-P | 49M44-P | 49M53-P | 49M64-P | 49M77-P | 49MSL-P |
| Gray | 49M31-GY | 49M44-GY | 49M53-GY | 49M64-GY | 49M77-GY | 49MSL-GY |
| Replacement Contact | 49M31-C | 49M44-C | 49M53-C | 49M64-C | 49M77-C | _ |

FEMALE PLUGS

| Max Ampacity | 636A | 796A | 898A | 1009A | 1135A | Replacement |
|-----------------------|----------|----------|----------|----------|----------|-------------|
| Conductor Size | 313 MCM | 444 MCM | 535 MCM | 646 MCM | 777 MCM | Sleeve |
| White | 49F31-W | 49F44-W | 49F53-W | 49F64-W | 49F77-W | 49FSL-W |
| Black | 49F31-E | 49F44-E | 49F53-E | 49F64-E | 49F77-E | 49FSL-E |
| Brown | 49F31-H | 49F44-H | 49F53-H | 49F64-H | 49F77-H | 49FSL-H |
| Red | 49F31-R | 49F44-R | 49F53-R | 49F64-R | 49F77-R | 49FSL-R |
| Blue | 49F31-B | 49F44-B | 49F53-B | 49F64-B | 49F77-B | 49FSL-B |
| Orange | 49F31-0 | 49F44-0 | 49F53-0 | 49F64-0 | 49F77-0 | 49FSL-0 |
| Green | 49F31-G | 49F44-G | 49F53-G | 49F64-G | 49F77-G | 49FSL-G |
| Yellow | 49F31-Y | 49F44-Y | 49F53-Y | 49F64-Y | 49F77-Y | 49FSL-Y |
| Purple | 49F31-P | 49F44-P | 49M53-P | 49F64-P | 49M77-P | 49FSL-P |
| Gray | 49F31-GY | 49F44-GY | 49F53-GY | 49F64-GY | 49F77-GY | 49FSL-GY |
| Replacement Contact | 49F31-C | 49F44-C | 49F53-C | 49F64-C | 49F77-C | _ |



Industrial Grade

49 Series Device Ordering Information

PANEL MOUNT RECEPTACLES

| | Complete Male Receptacle | | | Complete Female Receptacle | |
|---------------------------------------|--------------------------|------------------------|------------------------|----------------------------|------------------------|
| | | Single Hole Bus Bar | Double Hole Bus Bar | Single Hole Bus Bar | Double Hole Bus Bar |
| | White | 49MR1-CW | 49MR2-CW | 49FR1-CW | 49FR2-CW |
| | Black | 49MR1-CE | 49MR2-CE | 49FR1-CE | 49FR2-CE |
| Receptacle Spacing: | Brown | 49MR1-CH | 49MR2-CH | 49FR1-CH | 49FR2-CH |
| 1/4" Horizontally, | Red | 49MR1-CR | 49MR2-CR | 49FR1-CR | 49FR2-CR |
| 3-1/4" Vertically | Blue | 49MR1-CB | 49MR2-CB | 49FR1-CB | 49FR2-CB |
| Cable Size: 313-777MCM | Orange | 49MR1-CO | 49MR2-CO | 49FR1-CO | 49FR2-CO |
| Max Ampacity: 1135A Voltage: 1000V | Green | 49MR1-CG | 49MR2-CG | 49FR1-CG | 49FR2-CG |
| | Yellow | 49MR1-CY | 49MR2-CY | 49FR1-CY | 49FR2-CY |
| | Purple | 49MR1-CP | 49MR2-CP | 49FR1-CP | 49FR2-CP |
| | Gray | 49MR1-CGY | 49MR2-CGY | 49FR1-CGY | 49FR2-CGY |

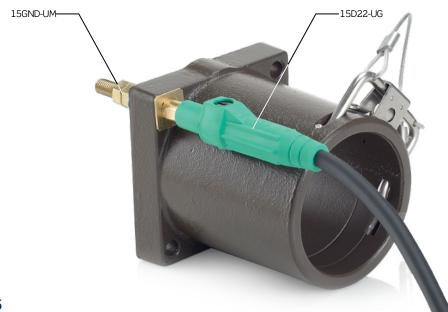
| | | Complete Male Receptacle | | Complete Fem | ale Receptacle |
|---|--------|--------------------------|------------------------|------------------------|------------------------|
| | | Single Hole Bus Bar | Double Hole Bus Bar | Single Hole Bus Bar | Double Hole Bus Bar |
| | White | 49MR1-XW | 49MR2-XW | 49FR1-XW | 49FR2-XW |
| | Black | 49MR1-XE | 49MR2-XE | 49FR1-XE | 49FR2-XE |
| | Brown | 49MR1-XH | 49MR2-XH | 49FR1-XH | 49FR2-XH |
| Receptacle Spacing: | Red | 49MR1-XR | 49MR2-XR | 49FR1-XR | 49FR2-XR |
| 1/4" Horizontally and Vertically Cable Size: 313-777MCM | Blue | 49MR1-XB | 49MR2-XB | 49FR1-XB | 49FR2-XB |
| Max Ampacity: 1135A Voltage: 1000V | Orange | 49MR1-X0 | 49MR2-XO | 49FR1-XO | 49FR2-X0 |
| | Green | 49MR1-XG | 49MR2-XG | 49FR1-XG | 49FR2-XG |
| | Yellow | 49MR1-XY | 49MR2-XY | 49FR1-XY | 49FR2-XY |
| | Purple | 49MR1-XP | 49MR2-XP | 49FR1-XP | 49FR2-XP |
| | Gray | 49MR1-XGY | 49MR2-XGY | 49FR1-XGY | 49FR2-XGY |

49 Series Device Ordering Information

ACCESSORIES AND REPLACEMENT PARTS

| | Description | Color | Material | Cat. No. |
|---------------|--|--------|------------------------|----------|
| | Clevis Pin for In-Line Connector Coupler | Silver | Stainless Steel | 49PNR |
| | Male Dust Cap | Black | High-Performance TPV | 49DSM |
| | Female Dust Cap | Black | High-Performance TPV | 49DSF |
| | In-line Coupler | White | Powder-coated aluminum | 49COP-W |
| _ | In-line Coupler | Black | Powder-coated aluminum | 49COP-E |
| For Plugs | In-line Coupler | Brown | Powder-coated aluminum | 49COP-H |
| rtugs | In-line Coupler | Red | Powder-coated aluminum | 49COP-R |
| | In-line Coupler | Blue | Powder-coated aluminum | 49COP-B |
| | In-line Coupler | Orange | Powder-coated aluminum | 49COP-0 |
| | In-line Coupler | Green | Powder-coated aluminum | 49COP-G |
| | In-line Coupler | Yellow | Powder-coated aluminum | 49COP-Y |
| | Clevis Pin for Panel Mount Receptacle | Silver | Stainless Steel | 49PNR* |
| For | Dust Cover Cap for Male or Female Receptacle | Black | High-Performance TPV | 49DSR |
| Panel Mounted | Receptacle Housing Gasket | Black | Rubber | 49GAS |
| Receptacles | Locking Ground Pin | _ | Brass | 15GND-UM |
| | Locking Ground Plug (Female) | Green | TPV/Brass | 15D22-UG |

^{*}Does not fit "X" Version.



AMPACITY RATINGS IN 40° AMBIENT FOR HIGH AMPERAGE APPLICATIONS

| Cable Size | 90°C (194°) | 125°C (257°F) |
|------------|----------------|------------------|
| 313 MCM | 513 | 636 |
| 444 MCM | 642 | 796 |
| 535 MCM | 724 | 898 |
| 646 MCM | 814 | 1009 |
| 777 MCM | 916 | 1135 |

[†]For panel receptacle applications requiring a ground connection, simply install the 15GND-M locking ground pin in place of one of the panel receptacle mounting bolts. The locking ground pin accepts our standard 15D22 series single pole cam connectors as shown in the diagram above.



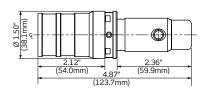


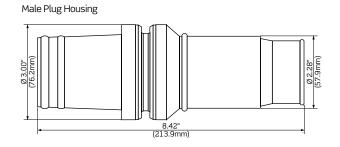
Industrial Grade

49 Series Device Technical Drawings

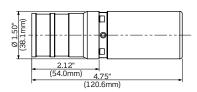
DIMENSIONS

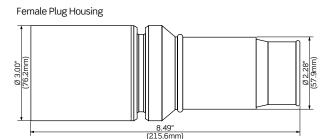
Male Contact



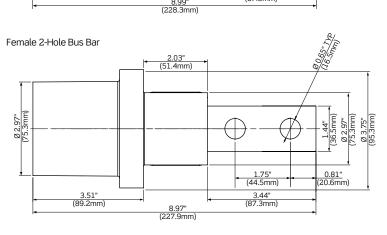


Female Contact

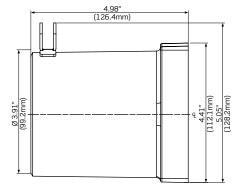




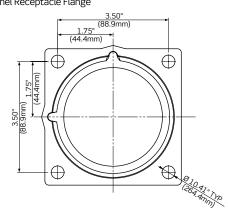
Male 2-Hole Bus Bar 2.03" (51.4mm) (51.4mm) (89.5mm) (89.5mm) (89.5mm) (89.5mm) (89.5mm) (89.7mm) (89.7mm) (89.7mm) (89.7mm) (89.7mm)



Panel Receptacle Housing



Panel Receptacle Flange



More Power Solutions for Rough Service Environments

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Rhino-Hide® NEMA Wiring Devices

These devices are watertight, submersible, corrosion resistant and have threaded fittings to provide positive locking connections in physically demanding environments that suffer from exposure to weather, chemicals, vibration, and physical strain, including:

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- Shore Power
- Wind Power Turbines
- Construction Sites

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The Rhino-Hide LZ Series connectors are heavy duty, environmentally sealed plugs and receptacles used for power, control and instrumentation applications in the harshest environments. These devices meet or exceed the requirements specified in the stringent Military Specification MIL-5015, making them suitable for a variety of industrial environments. Typical applications include:

- Onshore and Offshore Drilling Operations
- Aerospace and Marine Environments
- Land Transportation
- Factories, Refineries and More





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