



LEVITON®

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

# Single Pole Cam Devices

SELECTION GUIDE

rhino-hide®



CAUTION  
NOT FOR INTERRUPTING  
CURRENT  
NE PAS UTILISER POUR  
COUPER LE COURANT

CABLE DIA

# rhino-hide®

Superior performance and durability under the most severe operating conditions.



## Common Applications

- Sports, Entertainment and Movie Industry
- Theme Parks and Carnival Equipment
- Concert Venues and Convention Centers
- Motor and Generator Splices
- Ship-to-Shore Power
- Off Shore Oil Rigs
- Utilities
- Welding and Construction Sites
- Commercial and Navy Shipbuilding/Repair
- Petrochemical and Manufacturing Plant Turnarounds
- Mining Operations
- Stage Industry
- Airports

## Features and Benefits

- All 15 and 16/18 Series devices feature 35kA SCCR rating
- 17 Series devices feature 50ka SCCR rating
- 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
- UV and chemical resistant – high durometer thermoplastic elastomer (TPV - Santoprene)
- Santoprene construction provides improved resistance to UV degradation and damage to physical appearance, allowing for easier installation as vulcanizing is no longer necessary; rated HB per UL94
- Self compensating for wear – slit in male contact provides spring action for longer usage
- High conductivity – positive, vibration-proof connection provided by cam design
- Meets NEC requirements and is UL Listed and CSA Certified, except where noted
- 15, 16/18, and 17 Series devices are NEMA 3R-Rated for use in outdoor locations
- Operational temperature: -40 °F to 185 °F (-40 °C to 85 °C)

## 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.

### 15 SERIES

RATED UP TO  
**150 Amps**

PAGES 4-6

15 Series Taper Nose mini-cam plugs and receptacles are rated up to 150 Amps.

#### APPLICATIONS

Ideal for entertainment applications such as those found in carnivals and theme parks.



### 16 & 18 SERIES

RATED UP TO  
**400 Amps**

PAGES 7-21

16 and 18 Series Taper Nose Cam-Type devices are rated up to 400 Amps. 16 and 18 Series panel mount receptacles can be safely mounted directly to steel panels.\* Both series feature a positive locking connection that maintains integrity even when subjected to vibration.

#### APPLICATIONS

Ideal for power distribution applications such as construction sites, mining operations, welding, broadcasting, cell tower backup power, concerts, sound stages, movie making, television productions, sporting events and conventions.



### 17 SERIES

RATED UP TO  
**600 Amps**

### 22 & 23 SERIES

RATED UP TO  
**690 Amps**

PAGES 22-28

17 Series devices are rated up to 600 Amps while 22 and 23 Series are rated up to 690 Amps. 22 and 23 Series feature an additional latching mechanism for more security, especially in high-vibration applications like ship-to-shore power.

#### APPLICATIONS

Ideal for grueling, heavy-duty industrial use of generator test stations, water purification plants and electrochemical machining equipment.



### 49 SERIES

RATED UP TO  
**1135 Amps**

PAGES 29-34

49 Series single pole high amperage devices are rated up to 1135 Amps for the most extreme demanding conditions.

#### APPLICATIONS

Ideal for installation on both new and existing silicon-controlled rectifiers (SCRs) and generator stations or on new oil and gas rig construction.



\*Refer to instruction sheet guidelines for installation

## 15, 16 and 18 Series Cam-Type Plugs Features and Benefits

All devices feature 35kA SCCR rating  
Operational temperature: -40 °F to 185 °F  
(-40 °C to 85 °C)



16 Series panel mount receptacles can be safely mounted directly to steel panels

## 15/16/18 Series Plugs

| Plug Component | Material                                   |
|----------------|--------------------------------------------|
| Sleeve         | Thermoplastic Elastomer (TPV - Santoprene) |
| Contact        | Brass                                      |
| Strain Relief  | Copper Shim and Wire                       |

## 15 Series Taper Nose Devices - 150 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #8 to #2 Cable Range

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



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



| AMPACITY TABLE |              |
|----------------|--------------|
| Cable Size     | Max Ampacity |
| #8             | 80           |
| #6             | 105          |
| #4             | 140          |
| #2             | 150          |

**Male Panel Receptacle - Threaded Stud**  
.50"L and .75"L threaded stud available  
(15R21-UR Shown)



**Female Panel Receptacle - Threaded Stud**  
.50"L and .75"L threaded stud available  
(15R22-UH Shown)



**Panel Mount Covers**  
(15S31-UR Shown)



**Male Protective Cap**  
(15P21-UB Shown)



**Female Protective Cap**  
(15P22-UW Shown)



## 15 Series Device Accessories

### "Com-A-Long" Assembly Tools

15CLM-U for Female Plug

15CLF-U for Male Plug



### Copper Shims

A0006  
(Sold 10 per package)



### Strain Relief Wire

A0007  
(Sold 10 per package)



### Set Screws

A0001  
(Sold 10 per package)



## 15 Series Device Ordering Information

## CAM-TYPE PLUGS

|                                                                                                                         |        | Single Set Screw Termination ① ② |             |
|-------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------|-------------|
|                                                                                                                         |        | Male Plug                        | Female Plug |
| <b>Cable Size: #8 - #2</b><br><b>Max Ampacity: 150 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15D21-UW                         | 15D22-UW    |
|                                                                                                                         | Black  | 15D21-UE                         | 15D22-UE    |
|                                                                                                                         | Brown  | 15D21-UH                         | 15D22-UH    |
|                                                                                                                         | Red    | 15D21-UR                         | 15D22-UR    |
|                                                                                                                         | Blue   | 15D21-UB                         | 15D22-UB    |
|                                                                                                                         | Orange | 15D21-UO                         | 15D22-UO    |
|                                                                                                                         | Green  | 15D21-UG                         | 15D22-UG    |
|                                                                                                                         | Yellow | 15D21-UY                         | 15D22-UY    |
| Replacement Contacts                                                                                                    |        | 15D21-UC                         | 15D22-UC    |

|                                                                                                                         |        | Crimp Tube Termination ① ② |             |
|-------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|-------------|
|                                                                                                                         |        | Male Plug                  | Female Plug |
| <b>Cable Size: #8 - #4</b><br><b>Max Ampacity: 140 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15D23-UW                   | 15D24-UW    |
|                                                                                                                         | Black  | 15D23-UE                   | 15D24-UE    |
|                                                                                                                         | Brown  | 15D23-UH                   | 15D24-UH    |
|                                                                                                                         | Red    | 15D23-UR                   | 15D24-UR    |
|                                                                                                                         | Blue   | 15D23-UB                   | 15D24-UB    |
|                                                                                                                         | Orange | 15D23-UO                   | 15D24-UO    |
|                                                                                                                         | Green  | 15D23-UG                   | 15D24-UG    |
|                                                                                                                         | Yellow | 15D23-UY                   | 15D24-UY    |
| Replacement Contacts                                                                                                    |        | 15D23-UC                   | 15D24-UC    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

|                                                                                                                         |        | .5" Threaded Stud Termination 90° ① ② |          | .75" Threaded Stud Termination 90° ① ② |           |
|-------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------|----------|----------------------------------------|-----------|
|                                                                                                                         |        | Male                                  | Female   | Male                                   | Female    |
| <b>Cable Size: #8 - #2</b><br><b>Max Ampacity: 150 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15R21-UW                              | 15R22-UW | 15R21-1UW                              | 15R22-1UW |
|                                                                                                                         | Black  | 15R21-UE                              | 15R22-UE | 15R21-1UE                              | 15R22-1UE |
|                                                                                                                         | Brown  | 15R21-UH                              | 15R22-UH | 15R21-1UH                              | 15R22-1UH |
|                                                                                                                         | Red    | 15R21-UR                              | 15R22-UR | 15R21-1UR                              | 15R22-1UR |
|                                                                                                                         | Blue   | 15R21-UB                              | 15R22-UB | 15R21-1UB                              | 15R22-1UB |
|                                                                                                                         | Orange | 15R21-UO                              | 15R22-UO | 15R21-1UO                              | 15R22-1UO |
|                                                                                                                         | Green  | 15R21-UG                              | 15R22-UG | 15R21-1UG                              | 15R22-1UG |
|                                                                                                                         | Yellow | 15R21-UY                              | 15R22-UY | 15R21-1UY                              | 15R22-1UY |

## REPLACEMENT PARTS

| #8 - #4 Replacement Sleeves                                           |           |             | Protective Caps |          | Panel Mount Covers |
|-----------------------------------------------------------------------|-----------|-------------|-----------------|----------|--------------------|
|                                                                       | Male Plug | Female Plug | Male            | Female   | Male/Female        |
| White                                                                 | 15SDM-1UW | 15SDF-1UW   | 15P21-UW        | 15P22-UW | 15S31-UW           |
| Black                                                                 | 15SDM-1UE | 15SDF-1UE   | 15P21-UE        | 15P22-UE | 15S31-UE           |
| Brown                                                                 | —         | —           | —               | —        | 15S31-UH           |
| Red                                                                   | 15SDM-1UR | 15SDF-1UR   | 15P21-UR        | 15P22-UR | 15S31-UR           |
| Blue                                                                  | —         | —           | 15P21-UB        | 15P22-UB | 15S31-UB           |
| Orange                                                                | —         | —           | —               | —        | 15S31-UO           |
| Green                                                                 | —         | —           | 15P21-UG        | 15P22-UG | 15S31-UG           |
| Yellow                                                                | —         | —           | —               | —        | 15S31-UY           |
| Clear                                                                 | —         | —           | —               | —        | 15S31-UCL          |
| Brass Locking Ground Pin (for 49 Series and 15D22/15D24 Female Plugs) |           |             |                 | 15GND-UM |                    |

## 16 Series Taper Nose Plugs - 400 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #6 to 4/0 Cable Range

**Male Plug - Double Set Screw Termination**  
(16D24-UG Shown)



**Female Plug - Double Set Screw Termination**  
(16D31-UO Shown)



**Male Plug - Single Set Screw Termination Contact**  
(16D21-UC Shown)



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



**Female Plug - Single Set Screw Termination Contact**  
(16D29-UC Shown)



**Female Plug - Crimp Tube Termination Contact**  
(For 16D34 Shown)



**Male Plug - Flame Resistant for Mining Applications**  
(16D40-U Shown)



**Female Plug - Flame Resistant for Mining Applications**  
(16D41-U Shown)



**FLAME RESISTANT PLUGS**  
Rated V-0 per UL94

### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| #6         | 105          |
| #4         | 140          |
| #2         | 190          |
| #1         | 220          |
| 1/0        | 260          |
| 2/0        | 300          |
| 3/0        | 350          |
| 4/0        | 400          |

**Female Plug with Alternate Cord Entry - Double Set Screw Termination**  
(16D45-AUO Shown)



Fits Most  
#6 - #2 Wire  
Without Cutting

## 16 Series Device Accessories

### “Com-A-Long” Assembly Tools

16CLM-U for Female Plug

16CLF-U for Male Plug



### Copper Shims

A0004

(Sold 10 per package)



### Strain Relief Wire

A0003

(Sold 10 per package)



### Set Screws

A0002 (Sold 10 per package)



### Thermoplastic Screws

for use with all 16 Series plugs

A0010 (Sold 10 per package)



### Insulating Screw

for 16F and 16M receptacles only

A0005 (Sold 10 per package)



# 16 Series Taper Nose Plug Ordering Information

## CAM-TYPE PLUGS

|                                                                                             |        | Double Set Screw Termination   |             | Double Set Screw Termination  <br>Alternate Cord Entry |              |
|---------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|                                                                                             |        | Male Plug                                                                                                                                                                                        | Female Plug | Male Plug*                                                                                                                                                                                                                   | Female Plug* |
| Cable Size: #6 - #2<br>Max Ampacity: 190 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D44-UW                                                                                                                                                                                         | 16D45-UW    | 16D44-AUW                                                                                                                                                                                                                    | 16D45-AUW    |
|                                                                                             | Black  | 16D44-UE                                                                                                                                                                                         | 16D45-UE    | 16D44-AUE                                                                                                                                                                                                                    | 16D45-AUE    |
|                                                                                             | Brown  | 16D44-UH                                                                                                                                                                                         | 16D45-UH    | 16D44-AUH                                                                                                                                                                                                                    | 16D45-AUH    |
|                                                                                             | Red    | 16D44-UR                                                                                                                                                                                         | 16D45-UR    | 16D44-AUR                                                                                                                                                                                                                    | 16D45-AUR    |
|                                                                                             | Blue   | 16D44-UB                                                                                                                                                                                         | 16D45-UB    | 16D44-AUB                                                                                                                                                                                                                    | 16D45-AUB    |
|                                                                                             | Orange | 16D44-UO                                                                                                                                                                                         | 16D45-UO    | 16D44-AUO                                                                                                                                                                                                                    | 16D45-AUO    |
|                                                                                             | Green  | 16D44-UG                                                                                                                                                                                         | 16D45-UG    | 16D44-AUG                                                                                                                                                                                                                    | 16D45-AUG    |
|                                                                                             | Yellow | 16D44-UY                                                                                                                                                                                         | 16D45-UY    | 16D44-AUY                                                                                                                                                                                                                    | 16D45-AUY    |

NOTE: \*Flexible sleeve allows for #6 and #2 wire without cutting sleeve

|                                                                                             |        | Crimp Tube Termination   |             |
|---------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                             |        | Male Plug                                                                                                                                                                                  | Female Plug |
| Cable Size: #2 - #1<br>Max Ampacity: 220 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D25-UW                                                                                                                                                                                   | 16D34-UW    |
|                                                                                             | Black  | 16D25-UE                                                                                                                                                                                   | 16D34-UE    |
|                                                                                             | Brown  | —                                                                                                                                                                                          | —           |
|                                                                                             | Red    | 16D25-UR                                                                                                                                                                                   | 16D34-UR    |
|                                                                                             | Blue   | 16D25-UB                                                                                                                                                                                   | 16D34-UB    |
|                                                                                             | Orange | —                                                                                                                                                                                          | —           |
|                                                                                             | Green  | 16D25-UG                                                                                                                                                                                   | 16D34-UG    |
|                                                                                             | Yellow | —                                                                                                                                                                                          | —           |

|                                                                                              |        | Single Set Screw Termination   |             | Double Set Screw Termination  <br>Bulk Pack of 25 |             |           |             |
|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|
|                                                                                              |        | Male Plug                                                                                                                                                                                            | Female Plug | Male Plug                                                                                                                                                                                                                   | Female Plug | Male Plug | Female Plug |
| Cable Size: #2 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D21-UW                                                                                                                                                                                             | 16D29-UW    | 16D22-UW                                                                                                                                                                                                                    | 16D31-UW    | 16D22-BUW | 16D31-BUW   |
|                                                                                              | Black  | 16D21-UE                                                                                                                                                                                             | 16D29-UE    | 16D22-UE                                                                                                                                                                                                                    | 16D31-UE    | 16D22-BUE | 16D31-BUE   |
|                                                                                              | Brown  | 16D21-UH                                                                                                                                                                                             | 16D29-UH    | 16D22-UH                                                                                                                                                                                                                    | 16D31-UH    | 16D22-BUH | 16D31-BUH   |
|                                                                                              | Red    | 16D21-UR                                                                                                                                                                                             | 16D29-UR    | 16D22-UR                                                                                                                                                                                                                    | 16D31-UR    | 16D22-BUR | 16D31-BUR   |
|                                                                                              | Blue   | 16D21-UB                                                                                                                                                                                             | 16D29-UB    | 16D22-UB                                                                                                                                                                                                                    | 16D31-UB    | 16D22-BUB | 16D31-BUB   |
|                                                                                              | Orange | 16D21-UO                                                                                                                                                                                             | 16D29-UO    | 16D22-UO                                                                                                                                                                                                                    | 16D31-UO    | 16D22-BUO | 16D31-BUO   |
|                                                                                              | Green  | 16D21-UG                                                                                                                                                                                             | 16D29-UG    | 16D22-UG                                                                                                                                                                                                                    | 16D31-UG    | 16D22-BUG | 16D31-BUG   |
|                                                                                              | Yellow | 16D21-UY                                                                                                                                                                                             | 16D29-UY    | 16D22-UY                                                                                                                                                                                                                    | 16D31-UY    | 16D22-BUY | 16D31-BUY   |
| Replacement Contacts                                                                         |        | —                                                                                                                                                                                                    | —           | 16D22-UC                                                                                                                                                                                                                    | 16D31-UC    | 16D22-BUC | 16D31-BUC   |

|                                                                                               |        | Crimp Tube Termination   |             |
|-----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                               |        | Male Plug                                                                                                                                                                                      | Female Plug |
| Cable Size: 1/0 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D26-UW                                                                                                                                                                                       | 16D35-UW    |
|                                                                                               | Black  | 16D26-UE                                                                                                                                                                                       | 16D35-UE    |
|                                                                                               | Brown  | 16D26-UH                                                                                                                                                                                       | 16D35-UH    |
|                                                                                               | Red    | 16D26-UR                                                                                                                                                                                       | 16D35-UR    |
|                                                                                               | Blue   | 16D26-UB                                                                                                                                                                                       | 16D35-UB    |
|                                                                                               | Orange | 16D26-UO                                                                                                                                                                                       | 16D35-UO    |
|                                                                                               | Green  | 16D26-UG                                                                                                                                                                                       | 16D35-UG    |
|                                                                                               | Yellow | 16D26-UY                                                                                                                                                                                       | 16D35-UY    |

## 16 Series Taper Nose Plug Ordering Information

## CAM-TYPE PLUGS

| Single Set Screw Termination   |        |           |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
|                                                                                                                                                                                                  |        | Male Plug | Female Plug |
| <b>Cable Size: 2/0 - 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                        | White  | 16D23-UW  | 16D32-UW    |
|                                                                                                                                                                                                  | Black  | 16D23-UE  | 16D32-UE    |
|                                                                                                                                                                                                  | Brown  | 16D23-UH  | 16D32-UH    |
|                                                                                                                                                                                                  | Red    | 16D23-UR  | 16D32-UR    |
|                                                                                                                                                                                                  | Blue   | 16D23-UB  | 16D32-UB    |
|                                                                                                                                                                                                  | Orange | 16D23-UO  | 16D32-UO    |
|                                                                                                                                                                                                  | Green  | 16D23-UG  | 16D32-UG    |
|                                                                                                                                                                                                  | Gray   | —         | —           |
|                                                                                                                                                                                                  | Yellow | 16D23-UY  | 16D32-UY    |
| Replacement Contacts                                                                                                                                                                             |        | 16D23-UC  | 16D32-UC    |

| Double Set Screw Termination   |        |                 |             |           |             |                                              |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-------------|-----------|-------------|----------------------------------------------|-------------|
|                                                                                                                                                                                                      |        | Bulk Pack of 25 |             |           |             | Set Screws Pre-Installed,<br>Bulk Pack of 30 |             |
|                                                                                                                                                                                                      |        | Male Plug       | Female Plug | Male Plug | Female Plug | Male Plug                                    | Female Plug |
| <b>Cable Size: 2/0 - 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                            | White  | 16D24-UW        | 16D33-UW    | 16D24-BUW | 16D33-BUW   | 16D24-TUW                                    | 16D33-TUW   |
|                                                                                                                                                                                                      | Black  | 16D24-UE        | 16D33-UE    | 16D24-BUE | 16D33-BUE   | 16D24-TUE                                    | 16D33-TUE   |
|                                                                                                                                                                                                      | Brown  | 16D24-UH        | 16D33-UH    | 16D24-BUH | 16D33-BUH   | 16D24-TUH                                    | 16D33-TUH   |
|                                                                                                                                                                                                      | Red    | 16D24-UR        | 16D33-UR    | 16D24-BUR | 16D33-BUR   | 16D24-TUR                                    | 16D33-TUR   |
|                                                                                                                                                                                                      | Blue   | 16D24-UB        | 16D33-UB    | 16D24-BUB | 16D33-BUB   | 16D24-TUB                                    | 16D33-TUB   |
|                                                                                                                                                                                                      | Orange | 16D24-UO        | 16D33-UO    | 16D24-BUO | 16D33-BUO   | 16D24-TUO                                    | 16D33-TUO   |
|                                                                                                                                                                                                      | Green  | 16D24-UG        | 16D33-UG    | 16D24-BUG | 16D33-BUG   | 16D24-TUG                                    | 16D33-TUG   |
|                                                                                                                                                                                                      | Gray   | 16D24-UGY       | 16D33-UGY   | —         | —           | —                                            | —           |
|                                                                                                                                                                                                      | Yellow | 16D24-UY        | 16D33-UY    | 16D24-BUY | 16D33-BUY   | 16D24-TUY                                    | 16D33-TUY   |
| Replacement Contacts                                                                                                                                                                                 |        | 16D24-UC        | 16D33-UC    | 16D24-UC* | 16D33-UC*   | 16D24-UC*                                    | 16D33-UC*   |

| Double Set Screw Termination   |        |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
| Pre-cut for Cable 4/0, Bulk Pack of 25                                                                                                                                                               |        |           |             |
|                                                                                                                                                                                                      |        | Male Plug | Female Plug |
| <b>Cable Size: Pre-Cut 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                          | White  | 16D24-4UW | 16D33-4UW   |
|                                                                                                                                                                                                      | Black  | 16D24-4UE | 16D33-4UE   |
|                                                                                                                                                                                                      | Brown  | 16D24-4UH | 16D33-4UH   |
|                                                                                                                                                                                                      | Red    | 16D24-4UR | 16D33-4UR   |
|                                                                                                                                                                                                      | Blue   | 16D24-4UB | 16D33-4UB   |
|                                                                                                                                                                                                      | Orange | 16D24-4UO | 16D33-4UO   |
|                                                                                                                                                                                                      | Green  | 16D24-4UG | 16D33-4UG   |
|                                                                                                                                                                                                      | Yellow | 16D24-4UY | 16D33-4UY   |
| Replacement Contacts                                                                                                                                                                                 |        | 16D24-UC* | 16D33-UC*   |

NOTE: \*16D24-UC and 16D33-UC not sold in Bulk Packs

## 16 Series Taper Nose Plug Ordering Information

### CAM-TYPE PLUGS

|                                                                                               |        | Crimp Tube Termination  |             |
|-----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------|-------------|
|                                                                                               |        | Male Plug                                                                                                | Female Plug |
| Cable Size: 3/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D28-UW                                                                                                 | 16D37-UW    |
|                                                                                               | Black  | 16D28-UE                                                                                                 | 16D37-UE    |
|                                                                                               | Brown  | 16D28-UH                                                                                                 | 16D37-UH    |
|                                                                                               | Red    | 16D28-UR                                                                                                 | 16D37-UR    |
|                                                                                               | Blue   | 16D28-UB                                                                                                 | 16D37-UB    |
|                                                                                               | Orange | 16D28-UO                                                                                                 | 16D37-UO    |
|                                                                                               | Green  | 16D28-UG                                                                                                 | 16D37-UG    |
|                                                                                               | Yellow | 16D28-UY                                                                                                 | 16D37-UY    |

### REPLACEMENT SLEEVES (TPV)

|                                                                            |        | For Plugs 2/0 to 4/0 |             | For Plugs #2 - 2/0 |             |
|----------------------------------------------------------------------------|--------|----------------------|-------------|--------------------|-------------|
|                                                                            |        | Male Plug            | Female Plug | Male Plug          | Female Plug |
| (Not for use with Flame Resistant Cam-Type Plugs appearing in table below) | White  | 16SDM-1UW            | 16SDF-1UW   | 16SDM-2UW          | 16SDF-2UW   |
|                                                                            | Black  | 16SDM-1UE            | 16SDF-1UE   | 16SDM-2UE          | 16SDF-2UE   |
|                                                                            | Brown  | 16SDM-1UH            | 16SDF-1UH   | —                  | —           |
|                                                                            | Red    | 16SDM-1UR            | 16SDF-1UR   | 16SDM-2UR          | 16SDF-2UR   |
|                                                                            | Blue   | 16SDM-1UB            | 16SDF-1UB   | 16SDM-2UB          | 16SDF-2UB   |
|                                                                            | Orange | 16SDM-1UO            | 16SDF-1UO   | —                  | —           |
|                                                                            | Green  | 16SDM-1UG            | 16SDF-1UG   | 16SDM-2UG          | 16SDF-2UG   |
|                                                                            | Yellow | 16SDM-1UY            | 16SDF-1UY   | —                  | —           |

### FLAME RESISTANT CAM-TYPE PLUGS

|                                                                                                                   |       | Double Set Screw Termination |             |
|-------------------------------------------------------------------------------------------------------------------|-------|------------------------------|-------------|
|                                                                                                                   |       | Male Plug                    | Female Plug |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br>Flame Resistant<br><br>Rated V-0 per UL 94 | White | 16D40-U*                     | 16D41-U*    |

NOTE: \*16D40-U and 16D41-U are not UL Listed

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

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



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



**Female - .75"L Threaded Stud**  
(Rear View 16R24-UW Shown)



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



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



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



**Female Terminal Connector -  
1 Hole, Angle Style**  
(16F21-UB Shown)



**Male Terminal Connector -  
2 Holes, Angle Style**  
(16M21-2UW Shown)



**Panel Mount Cover**  
(16S31-UCL Cover Shown with 16R21-UE Receptacle)



**Male Protective Cap**  
For use with Male Receptacles  
(16P21-UO Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(16P22-UO Shown)



# 16 Series Taper Nose Receptacle Ordering Information

## CAM-TYPE PANEL MOUNT RECEPTACLE

|                                                                                               |        | Double Set Screw Termination  |                              |             |           |             |
|-----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|-----------|-------------|
|                                                                                               |        | Male, 90°                                                                                                        | Male, 90°<br>Bulk Pack of 20 | Female, 90° | Male, 45° | Female, 45° |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R21-UW                                                                                                         | 16R21-BUW                    | 16R22-UW    | 16R27-UW  | 16R28-UW    |
|                                                                                               | Black  | 16R21-UE                                                                                                         | 16R21-BUE                    | 16R22-UE    | 16R27-UE  | 16R28-UE    |
|                                                                                               | Brown  | 16R21-UH                                                                                                         | 16R21-BUH                    | 16R22-UH    | 16R27-UH  | 16R28-UH    |
|                                                                                               | Red    | 16R21-UR                                                                                                         | 16R21-BUR                    | 16R22-UR    | 16R27-UR  | 16R28-UR    |
|                                                                                               | Blue   | 16R21-UB                                                                                                         | 16R21-BUB                    | 16R22-UB    | 16R27-UB  | 16R28-UB    |
|                                                                                               | Orange | 16R21-UO                                                                                                         | 16R21-BUO                    | 16R22-UO    | 16R27-UO  | 16R28-UO    |
|                                                                                               | Green  | 16R21-UG                                                                                                         | 16R21-BUG                    | 16R22-UG    | 16R27-UG  | 16R28-UG    |
|                                                                                               | Gray   | —                                                                                                                | —                            | —           | 16R27-UGY | —           |
|                                                                                               | Yellow | 16R21-UY                                                                                                         | 16R21-BUY                    | 16R22-UY    | 16R27-UY  | 16R28-UY    |

|                                                                                              |        | .75"L Threaded Stud Termination  |             |                              |                                                      |
|----------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|------------------------------------------------------|
|                                                                                              |        | Male, 90°                                                                                                           | Female, 90° | Female, 90°<br>w/microswitch | Female, 90°<br>w/microswitch &<br>self-clinching nut |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R23-UW                                                                                                            | 16R24-UW    | 16RSW-UW <sup>†</sup>        | 16RSW-TUW <sup>†*</sup>                              |
|                                                                                              | Black  | 16R23-UE                                                                                                            | 16R24-UE    | 16RSW-UE <sup>†</sup>        | 16RSW-TUE <sup>†*</sup>                              |
|                                                                                              | Brown  | 16R23-UH                                                                                                            | 16R24-UH    | 16RSW-UH <sup>†</sup>        | —                                                    |
|                                                                                              | Red    | 16R23-UR                                                                                                            | 16R24-UR    | 16RSW-UR <sup>†</sup>        | 16RSW-TUR <sup>†*</sup>                              |
|                                                                                              | Blue   | 16R23-UB                                                                                                            | 16R24-UB    | 16RSW-UB <sup>†</sup>        | 16RSW-TUB <sup>†*</sup>                              |
|                                                                                              | Orange | 16R23-UO                                                                                                            | 16R24-UO    | 16RSW-UO <sup>†</sup>        | —                                                    |
|                                                                                              | Green  | 16R23-UG                                                                                                            | 16R24-UG    | 16RSW-UG <sup>†</sup>        | 16RSW-TUG <sup>†*</sup>                              |
|                                                                                              | Yellow | 16R23-UY                                                                                                            | 16R24-UY    | 16RSW-UY <sup>†</sup>        | —                                                    |

NOTE: <sup>†</sup>16RSW is not UL/CSA 1691 Listed • <sup>\*</sup>No washer or extended nut required

|                                                                                              |        | .75"L Threaded Stud Termination  |             | Half Round w/Tapped Hole  |             |
|----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                              |        | Male, 45°                                                                                                            | Female, 45° | Male, 90°                                                                                                      | Female, 90° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R29-UW                                                                                                             | 16R30-UW    | 16R19-UW                                                                                                       | 16R20-UW    |
|                                                                                              | Black  | 16R29-UE                                                                                                             | 16R30-UE    | 16R19-UE                                                                                                       | 16R20-UE    |
|                                                                                              | Brown  | 16R29-UH                                                                                                             | 16R30-UH    | 16R19-UH                                                                                                       | 16R20-UH    |
|                                                                                              | Red    | 16R29-UR                                                                                                             | 16R30-UR    | 16R19-UR                                                                                                       | 16R20-UR    |
|                                                                                              | Blue   | 16R29-UB                                                                                                             | 16R30-UB    | 16R19-UB                                                                                                       | 16R20-UB    |
|                                                                                              | Orange | 16R29-UO                                                                                                             | 16R30-UO    | 16R19-UO                                                                                                       | 16R20-UO    |
|                                                                                              | Green  | 16R29-UG                                                                                                             | 16R30-UG    | 16R19-UG                                                                                                       | 16R20-UG    |
|                                                                                              | Gray   | 16R29-UGY                                                                                                            | —           | —                                                                                                              | —           |
|                                                                                              | Yellow | 16R29-UY                                                                                                             | 16R30-UY    | 16R19-UY                                                                                                       | 16R20-UY    |

|                                                                                              |        | 1.125"L Threaded Stud Termination  |             |
|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                              |        | Male, 45°                                                                                                              | Female, 45° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R29-1UW                                                                                                              | 16R30-1UW   |
|                                                                                              | Black  | 16R29-1UE                                                                                                              | 16R30-1UE   |
|                                                                                              | Brown  | 16R29-1UH                                                                                                              | 16R30-1UH   |
|                                                                                              | Red    | 16R29-1UR                                                                                                              | 16R30-1UR   |
|                                                                                              | Blue   | 16R29-1UB                                                                                                              | 16R30-1UB   |
|                                                                                              | Orange | 16R29-1UO                                                                                                              | 16R30-1UO   |
|                                                                                              | Green  | 16R29-1UG                                                                                                              | 16R30-1UG   |
|                                                                                              | Yellow | 16R29-1UY                                                                                                              | 16R30-1UY   |

## 16 Series Taper Nose Receptacle Ordering Information

## CAM-TYPE PANEL MOUNT RECEPTACLE

| 1.125"L Threaded Stud Termination  |        |           |             |           |             |
|-----------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|-----------|-------------|
| Self-Clinching Nut                                                                                                    |        |           |             |           |             |
|                                                                                                                       |        | Male, 90° | Female, 90° | Male, 90° | Female, 90° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                          | White  | 16R23-1UW | 16R24-1UW   | 16R25-1UW | 16R26-1UW   |
|                                                                                                                       | Black  | 16R23-1UE | 16R24-1UE   | 16R25-1UE | 16R26-1UE   |
|                                                                                                                       | Brown  | 16R23-1UH | 16R24-1UH   | 16R25-1UH | 16R26-1UH   |
|                                                                                                                       | Red    | 16R23-1UR | 16R24-1UR   | 16R25-1UR | 16R26-1UR   |
|                                                                                                                       | Blue   | 16R23-1UB | 16R24-1UB   | 16R25-1UB | 16R26-1UB   |
|                                                                                                                       | Orange | 16R23-1UO | 16R24-1UO   | 16R25-1UO | 16R26-1UO   |
|                                                                                                                       | Green  | 16R23-1UG | 16R24-1UG   | 16R25-1UG | 16R26-1UG   |
|                                                                                                                       | Yellow | 16R23-1UY | 16R24-1UY   | 16R25-1UY | 16R26-1UY   |

| 1.25"L Threaded Stud Termination<br>- 0.75" Extended Shoulder  |        |           | 1.25"L Threaded Stud Termination<br> |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                 |        | Male, 90° | Female, 90°                                                                                                             |           |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                                    | White  | 16R31-XW  | 16R32-XW                                                                                                                | —         |
|                                                                                                                                                 | Black  | 16R31-XE  | 16R32-XE                                                                                                                | —         |
|                                                                                                                                                 | Brown  | 16R31-XH  | 16R32-XH                                                                                                                | —         |
|                                                                                                                                                 | Red    | 16R31-XR  | 16R32-XR                                                                                                                | 16R24-2UR |
|                                                                                                                                                 | Blue   | 16R31-XB  | 16R32-XB                                                                                                                | —         |
|                                                                                                                                                 | Orange | 16R31-XO  | 16R32-XO                                                                                                                | —         |
|                                                                                                                                                 | Green  | 16R31-XG  | 16R32-XG                                                                                                                | 16R23-2UG |
|                                                                                                                                                 | Yellow | 16R31-XY  | 16R32-XY                                                                                                                | —         |

| 1.25"L Threaded Stud Termination<br>- 0.75" Extended Shoulder, Bulk Pack of 15  |        |                        | 1.50"L Threaded Stud Termination<br> |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                                     |        | Male, 90°              | Female, 90°                                                                                                               |           |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                                                        | White  | 16R31-MXW <sup>†</sup> | 16R32-MXW <sup>†</sup>                                                                                                    | 16R23-4UW |
|                                                                                                                                                                     | Black  | 16R31-MXE <sup>†</sup> | 16R32-MXE <sup>†</sup>                                                                                                    | 16R23-4UE |
|                                                                                                                                                                     | Brown  | —                      | —                                                                                                                         | 16R23-4UH |
|                                                                                                                                                                     | Red    | 16R31-MXR <sup>†</sup> | 16R32-MXR <sup>†</sup>                                                                                                    | 16R23-4UR |
|                                                                                                                                                                     | Blue   | 16R31-MXB <sup>†</sup> | 16R32-MXB <sup>†</sup>                                                                                                    | 16R23-4UB |
|                                                                                                                                                                     | Orange | —                      | —                                                                                                                         | 16R23-4UO |
|                                                                                                                                                                     | Green  | 16R31-MXG <sup>†</sup> | 16R32-MXG <sup>†</sup>                                                                                                    | 16R23-4UG |
|                                                                                                                                                                     | Yellow | —                      | —                                                                                                                         | 16R23-4UY |

NOTE: <sup>†</sup> Available with (4) threaded inserts and (4) 10-32 Phillips Pan Head screws.

## TERMINAL CONNECTORS

|                                                                    |        | Bus Bar Mount |               |             |               |
|--------------------------------------------------------------------|--------|---------------|---------------|-------------|---------------|
|                                                                    |        | Angled Male   | Angled Female | Offset Male | Offset Female |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC | White  | 16M21-2UW     | 16F21-UW      | 16M22-UW    | 16F22-UW      |
|                                                                    | Black  | 16M21-2UE     | 16F21-UE      | 16M22-UE    | 16F22-UE      |
|                                                                    | Brown  | —             | 16F21-UH      | 16M22-UH    | 16F22-UH      |
|                                                                    | Red    | 16M21-2UR     | 16F21-UR      | 16M22-UR    | 16F22-UR      |
|                                                                    | Blue   | 16M21-2UB     | 16F21-UB      | 16M22-UB    | 16F22-UB      |
|                                                                    | Orange | —             | 16F21-UO      | 16M22-UO    | 16F22-UO      |
|                                                                    | Green  | 16M21-2UG     | 16F21-UG      | 16M22-UG    | 16F22-UG      |
|                                                                    | Yellow | —             | 16F21-UY      | 16M22-UY    | 16F22-UY      |

## 16 Series Covers and Caps Ordering Information

### COVERS AND CAPS

| Panel Mount Covers                                   |        |                                                       | Caps                                       |                                                |
|------------------------------------------------------|--------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------|
| For Use With<br>16 Series Panel Mount<br>Receptacles |        | Male/Female<br>(For 90° panel mount receptacles only) | Male<br>(For use with male<br>receptacles) | Female<br>(For use with female<br>receptacles) |
|                                                      | 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-UO                                   | 16P22-UO                                       |
|                                                      | Green  | 16S31-UG                                              | 16P21-UG                                   | 16P22-UG                                       |
|                                                      | Yellow | 16S31-UY                                              | 16P21-UY                                   | 16P22-UY                                       |
|                                                      | Clear  | 16S31-UCL                                             | —                                          | —                                              |

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

**Double Male  
(M-M) Adapter**  
(16A25-UH Shown)



**Double Female  
(F-F) Adapter**  
(16A24-UB Shown)



**Paralleling Tee  
(F-M-M) Adapter**  
(16A21-UY Shown)



**Tapping Tee  
(F-F-M) Adapter**  
(16A22-UE Shown)



**45° 3-Fer  
(M-F-F-F) Adapter**  
(16A23-UB Shown)



**45° Reversed  
3-Fer (F-M-M-M)  
Adapter**  
(16A26-UG Shown)



**Assembled Paralleling Tee (F-M-M) -  
24" Cable, 34.5" Total Length**  
(16A31-UE Shown)



**Assembled Tapping Tee (F-F-M) -  
24" Cable, 34.57" Total Length**  
(16A32-UR Shown)



**Assembled 45° 3-Fer (M-F-F-F) -  
24" Cable, 40.25" Total Length**  
(16A33-UB Shown)



**Assembled Reverse 45° 3-Fer (F-M-M-M) -  
24" Cable, 40.16" Total Length**  
(16A36-UG Shown)



## 16 Series Adapter Ordering Information

### CAM-TYPE ADAPTERS

|                                                                                                               |        | Paralleling Tee<br>F-M-M | Tapping Tee<br>F-F-M         |                      |                              |
|---------------------------------------------------------------------------------------------------------------|--------|--------------------------|------------------------------|----------------------|------------------------------|
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                          | White  | 16A21-UW                 | 16A22-UW                     |                      |                              |
|                                                                                                               | Black  | 16A21-UE                 | 16A22-UE                     |                      |                              |
|                                                                                                               | Brown  | 16A21-UH                 | 16A22-UH                     |                      |                              |
|                                                                                                               | Red    | 16A21-UR                 | 16A22-UR                     |                      |                              |
|                                                                                                               | Blue   | 16A21-UB                 | 16A22-UB                     |                      |                              |
|                                                                                                               | Orange | 16A21-UO                 | 16A22-UO                     |                      |                              |
|                                                                                                               | Green  | 16A21-UG                 | 16A22-UG                     |                      |                              |
|                                                                                                               | Yellow | 16A21-UY                 | 16A22-UY                     |                      |                              |
|                                                                                                               |        | 45° 3-Fer<br>M-F-F-F     | Reverse 45° 3-Fer<br>F-M-M-M | Double Male<br>M-M   | Double Female<br>F-F         |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                          | White  | 16A23-UW                 | 16A26-UW                     | 16A25-UW             | 16A24-UW                     |
|                                                                                                               | Black  | 16A23-UE                 | 16A26-UE                     | 16A25-UE             | 16A24-UE                     |
|                                                                                                               | Brown  | 16A23-UH                 | 16A26-UH                     | 16A25-UH             | 16A24-UH                     |
|                                                                                                               | Red    | 16A23-UR                 | 16A26-UR                     | 16A25-UR             | 16A24-UR                     |
|                                                                                                               | Blue   | 16A23-UB                 | 16A26-UB                     | 16A25-UB             | 16A24-UB                     |
|                                                                                                               | Orange | 16A23-UO                 | 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<br>F-M-M | Tapping Tee<br>F-F-M         | 45° 3-Fer<br>M-F-F-F | Reverse 45° 3-Fer<br>F-M-M-M |
| Assembled Adapters<br>Cable Size: 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16A31-UW                 | 16A32-UW                     | 16A33-UW             | 16A36-UW                     |
|                                                                                                               | Black  | 16A31-UE                 | 16A32-UE                     | 16A33-UE             | 16A36-UE                     |
|                                                                                                               | Red    | 16A31-UR                 | 16A32-UR                     | 16A33-UR             | 16A36-UR                     |
|                                                                                                               | Blue   | 16A31-UB                 | 16A32-UB                     | 16A33-UB             | 16A36-UB                     |
|                                                                                                               | Green  | 16A31-UG                 | 16A32-UG                     | 16A33-UG             | 16A36-UG                     |

## 18 Series Ball Nose Devices - 400 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #2 to 4/0 Cable Range

**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)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| #2         | 190          |
| 1/0        | 260          |
| 2/0        | 300          |
| 4/0        | 400          |

**Female Terminal Connector - 1 Hole, Angle Style**  
(18F21-UW Shown)



**Female Terminal Connector - 1 Hole, Offset Style**  
(18F22-UE Shown)



**Male Panel Mount Receptacle - .75" L 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)



**Paralleling Tee  
(F-M-M) Adapter**  
(18A21-UE Shown)



**45° 3-Fer  
(M-F-F-F) Adapter**  
(18A23-UG Shown)



**Male  
Protective Cap**  
For use with Male Receptacles  
(18P21-UG Shown)



**Female  
Protective Cap**  
For use with Female Receptacles  
(18P22-UB Shown)



**“Com-A-Long” Assembly Tools**

16CLM-U for Female Plug

16CLF-U for Male Plug



**Copper Shims**

A0004

(Sold 10 per package)



**Strain Relief Wire**

A0003

(Sold 10 per package)



**Set Screws**

A0002 (Sold 10 per package)



**Thermoplastic Screws**

for use with all 18 Series plugs

A0010 (Sold 10 per package)



## 18 Series Ball Nose Device Ordering Information

## CAM-TYPE PLUGS

|                                                                                              |        | Single Set Screw Termination ① ② |             | Double Set Screw Termination ① ② |             |
|----------------------------------------------------------------------------------------------|--------|----------------------------------|-------------|----------------------------------|-------------|
|                                                                                              |        | Male Plug                        | Female Plug | Male Plug                        | Female Plug |
| Cable Size: #2 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 18D21-UW                         | 18D29-UW    | 18D22-UW                         | 18D31-UW    |
|                                                                                              | Black  | 18D21-UE                         | 18D29-UE    | 18D22-UE                         | 18D31-UE    |
|                                                                                              | Brown  | —                                | —           | 18D22-UH                         | —           |
|                                                                                              | Red    | 18D21-UR                         | 18D29-UR    | 18D22-UR                         | 18D31-UR    |
|                                                                                              | Blue   | 18D21-UB                         | 18D29-UB    | 18D22-UB                         | 18D31-UB    |
|                                                                                              | Orange | —                                | —           | 18D22-UO                         | —           |
|                                                                                              | Green  | 18D21-UG                         | 18D29-UG    | 18D22-UG                         | 18D31-UG    |
|                                                                                              | Yellow | —                                | —           | 18D22-UY                         | —           |

|                                                                                               |        | Single Set Screw Termination ① ② |             | Double Set Screw Termination ① ② |             |
|-----------------------------------------------------------------------------------------------|--------|----------------------------------|-------------|----------------------------------|-------------|
|                                                                                               |        | Male Plug                        | Female Plug | Male Plug                        | Female Plug |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | —                                | —           | 18D24-UW                         | 18D33-UW    |
|                                                                                               | Black  | 18D23-UE                         | 18D32-UE    | 18D24-UE                         | 18D33-UE    |
|                                                                                               | Brown  | —                                | 18D32-UH    | 18D24-UH                         | 18D33-UH    |
|                                                                                               | Red    | 18D23-UR                         | —           | 18D24-UR                         | 18D33-UR    |
|                                                                                               | Blue   | —                                | —           | 18D24-UB                         | 18D33-UB    |
|                                                                                               | Orange | —                                | 18D32-UO    | 18D24-UO                         | 18D33-UO    |
|                                                                                               | Green  | —                                | —           | 18D24-UG                         | 18D33-UG    |
|                                                                                               | Yellow | —                                | 18D32-UY    | 18D24-UY                         | 18D33-UY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

|                                                                                              |        | .75"L Threaded Stud Termination ① ② |             |
|----------------------------------------------------------------------------------------------|--------|-------------------------------------|-------------|
|                                                                                              |        | Male, 90°                           | Female, 90° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 18R21-UW                            | 18R22-UW    |
|                                                                                              | Black  | 18R21-UE                            | 18R22-UE    |
|                                                                                              | Brown  | —                                   | 18R22-UH    |
|                                                                                              | Red    | 18R21-UR                            | 18R22-UR    |
|                                                                                              | Blue   | 18R21-UB                            | 18R22-UB    |
|                                                                                              | Orange | —                                   | 18R22-UO    |
|                                                                                              | Green  | 18R21-UG                            | 18R22-UG    |
|                                                                                              | Yellow | —                                   | 18R22-UY    |

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

## 18 Series Ball Nose Device Ordering Information

### FEMALE TERMINAL CONNECTORS

|                                                                    |        | Bus Bar Mount* |          |
|--------------------------------------------------------------------|--------|----------------|----------|
|                                                                    |        | Angle          | Offset   |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC | White  | 18F21-UW       | 18F22-UW |
|                                                                    | Black  | 18F21-UE       | 18F22-UE |
|                                                                    | Brown  | —              | —        |
|                                                                    | Red    | 18F21-UR       | 18F22-UR |
|                                                                    | Blue   | 18F21-UB       | 18F22-UB |
|                                                                    | Orange | —              | —        |
|                                                                    | Green  | 18F21-UG       | 18F22-UG |
|                                                                    | Yellow | —              | —        |

NOTE: \* 18F21 and 18F22 are not UL/CSA Listed

### COVERS

|                                                          |        | Caps     |          |
|----------------------------------------------------------|--------|----------|----------|
|                                                          |        | Male     | Female   |
| For Use With All<br>18 Series Panel Mount<br>Receptacles | 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-UO | 18P22-UO |
|                                                          | Green  | 18P21-UG | 18P22-UG |
|                                                          | Yellow | 18P21-UY | 18P22-UY |

### CAM-TYPE ADAPTERS

|                                                                      |        | Paralleling Tee  | Tapping Tee  |
|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                      |        | F-M-M                                                                                               | F-F-M                                                                                            |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 18A21-UW                                                                                            | 18A22-UW                                                                                         |
|                                                                      | Black  | 18A21-UE                                                                                            | 18A22-UE                                                                                         |
|                                                                      | Brown  | —                                                                                                   | —                                                                                                |
|                                                                      | Red    | 18A21-UR                                                                                            | 18A22-UR                                                                                         |
|                                                                      | Blue   | 18A21-UB                                                                                            | 18A22-UB                                                                                         |
|                                                                      | Orange | —                                                                                                   | —                                                                                                |
|                                                                      | Green  | 18A21-UG                                                                                            | 18A22-UG                                                                                         |
|                                                                      | Yellow | —                                                                                                   | —                                                                                                |

|                                                                      |        | 45° 3-Fer  | Double Male  |
|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                      |        | M-F-F-F                                                                                       | M-M                                                                                              |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | —                                                                                             | 18A25-UW                                                                                         |
|                                                                      | Black  | —                                                                                             | —                                                                                                |
|                                                                      | Brown  | —                                                                                             | —                                                                                                |
|                                                                      | Red    | —                                                                                             | —                                                                                                |
|                                                                      | Blue   | —                                                                                             | 18A25-UB                                                                                         |
|                                                                      | Orange | —                                                                                             | —                                                                                                |
|                                                                      | Green  | 18A23-UG                                                                                      | —                                                                                                |
|                                                                      | Yellow | —                                                                                             | —                                                                                                |

17, 22 and 23 Series Cam-Type Plugs  
Features and Benefits

Made from thermoplastic elastomer (TPV – Santoprene), which eliminates the need to vulcanize

Color-coded insulating sleeves for easy phase identification

UL  SP   
17 Series  
UL listed to 1691  
(except RSW)

Santoprene (TPV) provides superior visual appearance and resistance to UV degradation

Double Set screw termination for plugs for easy installation

17 Series devices feature 50kA SCCR rating  
Operational temperature: -40 °F to 185 °F (-40 °C to 85 °C)

Thermoplastic screw makes sleeve detachable when needed

Special latching mechanism provides resistance to vibration

Crimp Tube termination for plugs



17/22/23 Series Plugs

| Plug Component | Material                                   |
|----------------|--------------------------------------------|
| Sleeve         | Thermoplastic Elastomer (TPV - Santoprene) |
| Contact        | Brass                                      |
| Strain Relief  | Copper Shim and Wire                       |

## 17 Series Taper Nose Devices - 600 A, 600 V Max Plugs with 350 to 500 MCM Cable Range

**Male Plug -  
Double Set Screw Termination**  
(17D22-SE Shown)



**Female Plug -  
Double Set Screw Termination**  
(17D24-SE Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |

## Receptacles with 250 to 500 MCM Cable Range

**Male Panel Mount  
Receptacle - 30°  
1" L Threaded Stud  
Termination**  
(17R23-SE Shown)



**Female Panel Mount  
Receptacle - 30°  
1.125" L Threaded  
Stud Termination**  
(17R24-SO Shown)



**Female Panel Mount Receptacle -  
Threaded Stud Termination with  
Microswitch**  
(17RSW-SR Shown)



## 17 Series Accessories

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



17CLF for Male Plug



**Copper Shims**  
A0017 (Sold 10 per package)



**Male Protective Cap**  
For use with Male Receptacles  
(17P21-O Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(17P22-H Shown)



## 17 Series Taper Nose Device Ordering Information

## CAM-TYPE PLUGS

| Double Set Screw Termination   |        |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
|                                                                                                                                                                                                      |        | Male Plug | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V<br><br>UL/CSA 1691 Listed                                                                                                           | White  | 17D22-SW  | 17D24-SW    |
|                                                                                                                                                                                                      | Black  | 17D22-SE  | 17D24-SE    |
|                                                                                                                                                                                                      | Brown  | 17D22-SH  | 17D24-SH    |
|                                                                                                                                                                                                      | Red    | 17D22-SR  | 17D24-SR    |
|                                                                                                                                                                                                      | Blue   | 17D22-SB  | 17D24-SB    |
|                                                                                                                                                                                                      | Orange | 17D22-SO  | 17D24-SO    |
|                                                                                                                                                                                                      | Green  | 17D22-SG  | 17D24-SG    |
|                                                                                                                                                                                                      | Yellow | 17D22-SY  | 17D24-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

| Threaded Stud Termination                                                                  |        |                                                                                                                                                                                          |                                                                                                                                                                                                 |                |
|--------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                            |        | 1.00"L, Male, 30°<br>  | 1.125"L, Female, 30°<br>  | w/microswitch* |
| Cable Size: 250-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V<br><br>UL/CSA 1691 Listed | White  | 17R23-SW                                                                                                                                                                                 | 17R24-SW                                                                                                                                                                                        | 17RSW-SW       |
|                                                                                            | Black  | 17R23-SE                                                                                                                                                                                 | 17R24-SE                                                                                                                                                                                        | 17RSW-SE       |
|                                                                                            | Brown  | 17R23-SH                                                                                                                                                                                 | 17R24-SH                                                                                                                                                                                        | 17RSW-SH       |
|                                                                                            | Red    | 17R23-SR                                                                                                                                                                                 | 17R24-SR                                                                                                                                                                                        | 17RSW-SR       |
|                                                                                            | Blue   | 17R23-SB                                                                                                                                                                                 | 17R24-SB                                                                                                                                                                                        | 17RSW-SB       |
|                                                                                            | Orange | 17R23-SO                                                                                                                                                                                 | 17R24-SO                                                                                                                                                                                        | 17RSW-SO       |
|                                                                                            | Green  | 17R23-SG                                                                                                                                                                                 | 17R24-SG                                                                                                                                                                                        | 17RSW-SG       |
|                                                                                            | Yellow | 17R23-SY                                                                                                                                                                                 | 17R24-SY                                                                                                                                                                                        | 17RSW-SY       |

NOTE: \*17RSW is not UL/CSA 1691 Listed

## CAPS

| Caps                                                     |        |         |         |
|----------------------------------------------------------|--------|---------|---------|
|                                                          |        | Male    | Female  |
| For Use With All<br>17 Series Panel Mount<br>Receptacles | White  | 17P21-W | 17P22-W |
|                                                          | Black  | 17P21-E | 17P22-E |
|                                                          | Brown  | 17P21-H | 17P22-H |
|                                                          | Red    | 17P21-R | 17P22-R |
|                                                          | Blue   | 17P21-B | 17P22-B |
|                                                          | Orange | 17P21-O | 17P22-O |
|                                                          | Green  | 17P21-G | 17P22-G |
|                                                          | Yellow | 17P21-Y | 17P22-Y |

## 22 Series Latching Ball Nose Devices - 690 A, 600 V Max Plugs with 350 to 750 MCM Cable Range

**Male Plug -  
Crimp Tube Termination**  
(22L22-SE Shown)



**Female Plug -  
Crimp Tube Termination**  
(22L25-SR Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |
| 750 MCM    | 690          |
| 777 MCM    | 690          |

**Male Plug - Crimp Tube Termination**  
(22L23-SE Shown)



**Female Plug - Crimp Tube Termination**  
(22L26-SE Shown)



## Receptacles with 250 to 777 MCM Cable Range

**Male Panel Mount  
Receptacle - 30°  
1" L Threaded Stud**  
(22R23-SO Shown)



**Female Panel Mount  
Receptacle - 30°  
1" L Threaded Stud**  
(22R24-SO Shown)



## 22 Series Accessories

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



17CLF for Male Plug



**Male Protective Cap**  
For use with Male Receptacles  
(22P21-E Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(22P22-E Shown)



## 22 Series Latching Ball Nose Device Ordering Information

## CAM-TYPE PLUGS

|                                                                  |        | Crimp Tube Termination |             |
|------------------------------------------------------------------|--------|------------------------|-------------|
|                                                                  |        | Male Plug              | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V | White  | 22L22-SW*              | 22L25-SW    |
|                                                                  | Black  | 22L22-SE*              | 22L25-SE    |
|                                                                  | Brown  | 22L22-SH               | 22L25-SH    |
|                                                                  | Red    | 22L22-SR*              | 22L25-SR    |
|                                                                  | Blue   | 22L22-SB               | 22L25-SB    |
|                                                                  | Orange | 22L22-SO               | 22L25-SO    |
|                                                                  | Green  | 22L22-SG               | 22L25-SG    |
|                                                                  | Yellow | 22L22-SY               | 22L25-SY    |

NOTE: \*Contact available without silver plating

|                                                                  |        | Crimp Tube Termination |             |
|------------------------------------------------------------------|--------|------------------------|-------------|
|                                                                  |        | Male Plug              | Female Plug |
| Cable Size: 500-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 22L23-SW               | 22L26-SW    |
|                                                                  | Black  | 22L23-SE               | 22L26-SE    |
|                                                                  | Brown  | 22L23-SH               | 22L26-SH    |
|                                                                  | Red    | 22L23-SR               | 22L26-SR    |
|                                                                  | Blue   | 22L23-SB               | 22L26-SB    |
|                                                                  | Orange | 22L23-SO               | 22L26-SO    |
|                                                                  | Green  | 22L23-SG               | 22L26-SG    |
|                                                                  | Yellow | 22L23-SY               | 22L26-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

|                                                                  |        | 1.00"L Threaded Stud Termination |           |             |
|------------------------------------------------------------------|--------|----------------------------------|-----------|-------------|
|                                                                  |        | Female, 15°                      | Male, 30° | Female, 30° |
| Cable Size: 250-777 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 22R26-W                          | 22R23-SW  | 22R24-SW    |
|                                                                  | Black  | 22R26-E                          | 22R23-SE  | 22R24-SE    |
|                                                                  | Brown  | —                                | 22R23-SH  | 22R24-SH    |
|                                                                  | Red    | 22R26-R                          | 22R23-SR  | 22R24-SR    |
|                                                                  | Blue   | —                                | 22R23-SB  | 22R24-SB    |
|                                                                  | Orange | —                                | 22R23-SO  | 22R24-SO    |
|                                                                  | Green  | 22R26-G                          | 22R23-SG  | 22R24-SG    |
|                                                                  | Yellow | —                                | 22R23-SY  | 22R24-SY    |

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

|                                                                  |       |         |
|------------------------------------------------------------------|-------|---------|
| Cable Size: 250-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White | 22R28-W |
|                                                                  | Black | 22R28-E |
|                                                                  | Red   | 22R28-R |
|                                                                  | Green | 22R28-G |

## COVERS

|                                                          |       | Caps    |         |
|----------------------------------------------------------|-------|---------|---------|
|                                                          |       | Male    | Female  |
| For Use With All<br>22 Series Panel Mount<br>Receptacles | White | 22P21-W | 22P22-W |
|                                                          | Black | 22P21-E | 22P22-E |
|                                                          | Red   | 22P21-R | 22P22-R |

## 23 Series Latching Taper Nose Plugs - 690 A, 600 V Max Plugs with 350 to 750 MCM Cable Range

**Male Plug -  
Latching Taper Nose,  
Crimp Tube Termination**  
(23L22-SE Shown)



**Female Plug -  
Latching Taper Nose,  
Crimp Tube Termination**  
(23L25-SE Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |
| 750 MCM    | 690          |
| 777 MCM    | 690          |

## Receptacles with 250 to 777 MCM Cable Range

**Male Panel Receptacle -  
30° Tapered Nose, 1.125"L Threaded Stud**  
(23R23-SE Shown)



**Female Panel Receptacle -  
30° Tapered Nose, 1.125"L Threaded Stud**  
(23R24-SH Shown)



## 23 Series Accessories

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



17CLF for Male Plug



**Male Protective Cap**  
For use with Male Receptacles  
(17P21-O Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(17P22-H Shown)



## 23 Series Latching Taper Nose Device Ordering Information

## CAM-TYPE PLUGS

| Crimp Tube Termination                                           |        |           |             |
|------------------------------------------------------------------|--------|-----------|-------------|
|                                                                  |        | Male Plug | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V | White  | 23L22-SW  | 23L25-SW    |
|                                                                  | Black  | 23L22-SE  | 23L25-SE    |
|                                                                  | Brown  | 23L22-SH  | 23L25-SH    |
|                                                                  | Red    | 23L22-SR  | 23L25-SR    |
|                                                                  | Blue   | 23L22-SB  | 23L25-SB    |
|                                                                  | Orange | 23L22-SO  | 23L25-SO    |
|                                                                  | Green  | 23L22-SG  | 23L25-SG    |
|                                                                  | Yellow | 23L22-SY  | 23L25-SY    |

| Crimp Tube Termination                                           |        |           |             |
|------------------------------------------------------------------|--------|-----------|-------------|
|                                                                  |        | Male Plug | Female Plug |
| Cable Size: 500-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 23L23-SW  | 23L26-SW    |
|                                                                  | Black  | 23L23-SE  | 23L26-SE    |
|                                                                  | Brown  | 23L23-SH  | 23L26-SH    |
|                                                                  | Red    | 23L23-SR  | 23L26-SR    |
|                                                                  | Blue   | 23L23-SB  | 23L26-SB    |
|                                                                  | Orange | 23L23-SO  | 23L26-SO    |
|                                                                  | Green  | 23L23-SG  | 23L26-SG    |
|                                                                  | Yellow | 23L23-SY  | 23L26-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

| Threaded Stud Termination                                        |        |                   |                      |
|------------------------------------------------------------------|--------|-------------------|----------------------|
|                                                                  |        | 1.00"L, Male, 30° | 1.125"L, Female, 30° |
| Cable Size: 250-777 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 23R23-SW          | 23R24-SW             |
|                                                                  | Black  | 23R23-SE          | 23R24-SE             |
|                                                                  | Brown  | 23R23-SH          | 23R24-SH             |
|                                                                  | Red    | 23R23-SR          | 23R24-SR             |
|                                                                  | Blue   | 23R23-SB          | 23R24-SB             |
|                                                                  | Orange | 23R23-SO          | 23R24-SO             |
|                                                                  | Green  | 23R23-SG          | 23R24-SG             |
|                                                                  | Yellow | 23R23-SY          | 23R24-SY             |

## CAPS

| Caps                                                     |        |         |         |
|----------------------------------------------------------|--------|---------|---------|
|                                                          |        | Male    | Female  |
| For Use With All<br>23 Series Panel Mount<br>Receptacles | White  | 17P21-W | 17P22-W |
|                                                          | Black  | 17P21-E | 17P22-E |
|                                                          | Brown  | 17P21-H | 17P22-H |
|                                                          | Red    | 17P21-R | 17P22-R |
|                                                          | Blue   | 17P21-B | 17P22-B |
|                                                          | Orange | 17P21-O | 17P22-O |
|                                                          | Green  | 17P21-G | 17P22-G |
|                                                          | Yellow | 17P21-Y | 17P22-Y |

## 49 Series Male and Female Plugs, 1135 A Max

These devices are suitable for high-amperage AC or DC loads.

Typical uses are for power delivery on off-shore and land-based oil and gas rigs. 49 Series devices are used by SCR drive manufacturers and top drive manufacturers to distribute power from the SCR to mud pumps and top drives.



## 49 Series Male and Female Plugs, 1135 A Max Features and Benefits

Color-coded connector insulator for quick, visual identification of circuit and phase connections. Available colors include: Black, White, Red, Blue, Green, Yellow, Orange, Purple<sup>1</sup>, Gray<sup>1</sup> and Brown<sup>\*\*</sup>



UV stable, high-performance TPV insulator resists fading and cracking for greater service life

Ideal for replacement; plugs mate with other manufacturers' high-amperage single pole plugs and receptacles for fast, easy change-out

49M77-E Shown

49F77-E Shown

TPV dust cap protects contacts when disconnected

Contacts offered by cable size for the most secure connection. Each contact is designed for a specific cable size ranging from 313 MCM through 777 MCM

Contacts machined from a high conductivity copper alloy and silver-plated for corrosion resistance and superior conductivity

## Coupler

Color-coded, metal in-line coupler prevents separation of connectors and identifies phase

49COP-E Shown

## 49 Series Device Ordering Information

### MALE PLUGS\*

| Max Ampacity<br>Conductor Size | 636A<br>313 MCM | 796A<br>444 MCM | 898A<br>535 MCM | 1009A<br>646 MCM | 1135A<br>777 MCM | Replacement<br>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-O         | 49M44-O         | 49M53-O         | 49M64-O          | 49M77-O          | 49MSL-O               |
| 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                         | —               | 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          | —                     |

NOTE: \*Includes 49DSM Dust Cap.

### FEMALE PLUGS\*\*

| Max Ampacity<br>Conductor Size | 636A<br>313 MCM | 796A<br>444 MCM | 898A<br>535 MCM | 1009A<br>646 MCM | 1135A<br>777 MCM | Replacement<br>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-O         | 49F44-O         | 49F53-O         | 49F64-O          | 49F77-O          | 49FSL-O               |
| 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                         | —               | —               | 49F53-P         | —                | 49F77-P          | 49FSL-P               |
| Gray                           | —               | 49F44-GY        | 49F53-GY        | 49F64-GY         | 49F77-GY         | 49FSL-GY              |
| Replacement Contact            | 49F31-C         | 49F44-C         | 49F53-C         | 49F64-C          | 49F77-C          | —                     |

NOTE: \*\*Includes 49DSF Dust Cap.

### 49 Series Panel Mounted Receptacles, 1135 A Max Features and Benefits

Ideal for replacement; receptacles mate with other manufacturers' high-amperage single pole plugs for fast, easy change-out

The high-performance TPV bus bar insulator resists cracking for greater service life

Cast aluminum powder-coated receptacle housing is color-coded for quick visual identification of circuit and phase connections

49FR1-XR Shown

Captive stainless steel clevis bracket

"X" version receptacle housings feature a 45° angle stainless steel clevis pin that permits ganging of multiple receptacles in very close proximity to each other (as close as 1/4") for installation on smaller panels

Receptacles deliver up to 1,135 Amps continuous duty

Detent pin allows clevis pin to stay secure in either open or closed position

TPV cap prevents contamination when receptacle is not in use

Stainless steel clevis bracket accepts industry standard lockout

#### Complete Receptacles Include:

- Housing Assembly
- Contact Assembly
- Clevis Pin
- Dust Cap
- Locking Pin (X Version Only)



Color-coding the devices minimizes errors due to miswiring, and saves time during assembly and trouble-shooting, especially on dusty and dirty oil rigs

## 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 |
| <b>Receptacle Spacing:</b><br>1/4" Horizontally,<br>3-1/4" Vertically<br><br><b>Cable Size: 313-777 MCM</b><br><b>Max Ampacity: 1135 A</b><br><b>Voltage: 1000 V</b>             | White  | 49MR1-CW                 | 49MR2-CW            | 49FR1-CW                   | 49FR2-CW            |
|                                                                                                                                                                                  | Black  | 49MR1-CE                 | 49MR2-CE            | 49FR1-CE                   | 49FR2-CE            |
|                                                                                                                                                                                  | Brown  | 49MR1-CH                 | 49MR2-CH            | 49FR1-CH                   | 49FR2-CH            |
|                                                                                                                                                                                  | Red    | 49MR1-CR                 | 49MR2-CR            | 49FR1-CR                   | 49FR2-CR            |
|                                                                                                                                                                                  | Blue   | 49MR1-CB                 | 49MR2-CB            | 49FR1-CB                   | 49FR2-CB            |
|                                                                                                                                                                                  | Orange | 49MR1-CO                 | 49MR2-CO            | 49FR1-CO                   | 49FR2-CO            |
|                                                                                                                                                                                  | 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 Female Receptacle |                     |
|                                                                                                                                                                                  |        | Single Hole Bus Bar      | Double Hole Bus Bar | Single Hole Bus Bar        | Double Hole Bus Bar |
| <b>Receptacle Spacing:</b><br>1/4" Horizontally and Vertically,<br>45° Clevis Pin<br><br><b>Cable Size: 313-777 MCM</b><br><b>Max Ampacity: 1135 A</b><br><b>Voltage: 1000 V</b> | 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            |
|                                                                                                                                                                                  | Red    | 49MR1-XR                 | 49MR2-XR            | 49FR1-XR                   | 49FR2-XR            |
|                                                                                                                                                                                  | Blue   | 49MR1-XB                 | 49MR2-XB            | 49FR1-XB                   | 49FR2-XB            |
|                                                                                                                                                                                  | Orange | 49MR1-XO                 | 49MR2-XO            | 49FR1-XO                   | 49FR2-XO            |
|                                                                                                                                                                                  | 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           |

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

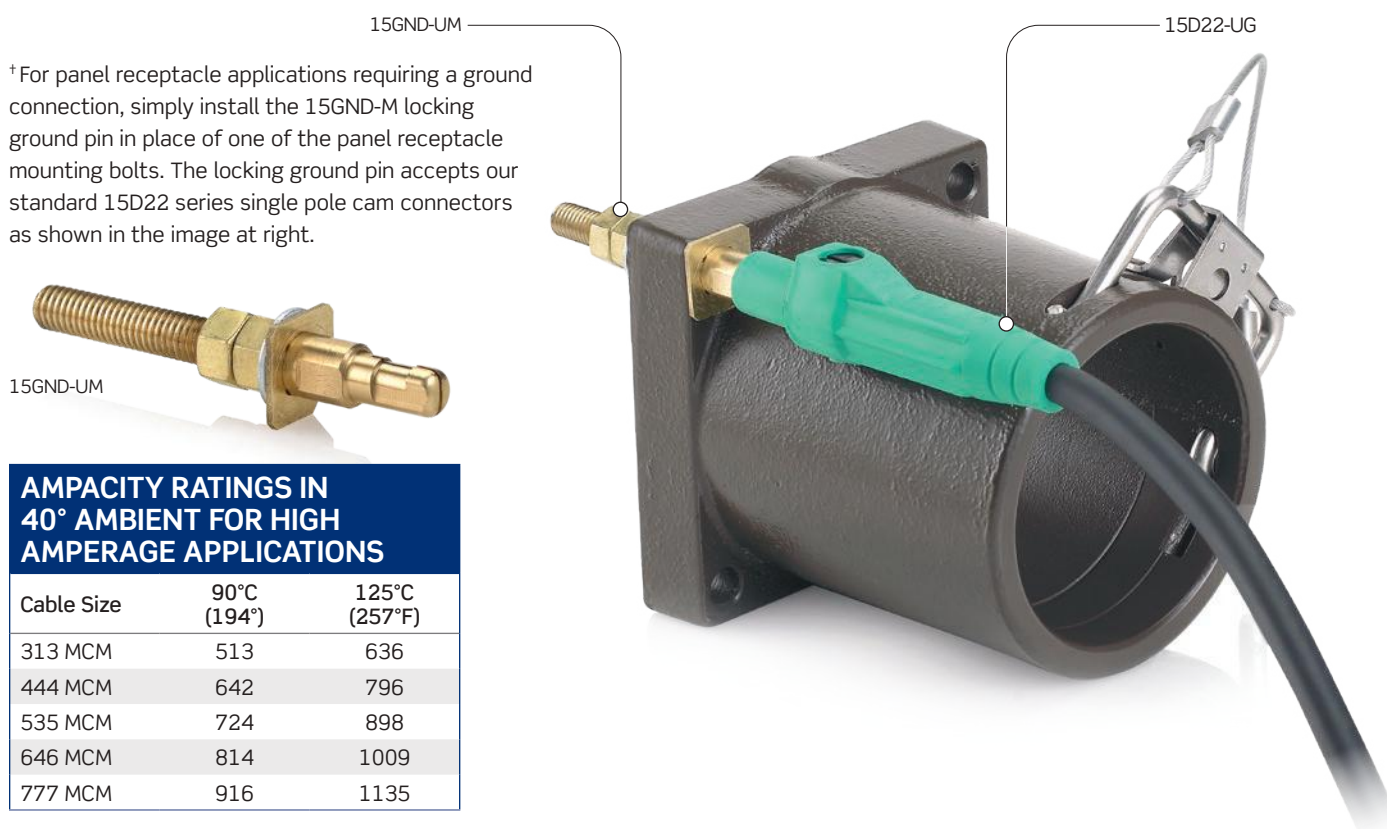
## 49 Series Device Ordering Information

## ACCESSORIES AND REPLACEMENT PARTS

|                               | Description                                  | Color  | Material               | Cat. No.   |
|-------------------------------|----------------------------------------------|--------|------------------------|------------|
| For Plugs                     | Clevis Pin for In-Line Connector Coupler     | Silver | Stainless Steel        | 49PNR-KIT* |
|                               | 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    |
|                               | In-line Coupler                              | Brown  | Powder-coated aluminum | 49COP-H    |
|                               | 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-O    |
|                               | In-line Coupler                              | Green  | Powder-coated aluminum | 49COP-G    |
|                               | In-line Coupler                              | Gray   | Powder-coated aluminum | 49COP-GY   |
|                               | In-line Coupler                              | Yellow | Powder-coated aluminum | 49COP-Y    |
|                               | In-line Coupler                              | Purple | Powder-coated aluminum | 49COP-P    |
|                               | In-line Coupler                              | Silver | Unpainted aluminum     | 49COP      |
| For Panel Mounted Receptacles | Clevis Pin for Panel Mount Receptacle        | Silver | Stainless Steel        | 49PNR-KIT* |
|                               | Dust Cover Cap for Male or Female Receptacle | Black  | High-Performance TPV   | 49DSR      |
|                               | Receptacle Housing Gasket                    | Black  | Rubber                 | 49GAS      |
|                               | Locking Ground Pin                           | —      | Brass                  | 15GND-UM   |
|                               | Locking Ground Plug (Female)                 | Green  | TPV/Brass              | 15D22-UG   |
|                               | Casting for Male or Female Receptacles       | Silver | Aluminum               | 49CSR      |

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

\* Does not fit "X" Version.



The energy industry continues to expand at a rapid pace. Whether you are in the oil and gas, renewables, extraction, wind, solar, or another energy field, Leviton is ready to provide the safest and most reliable electrical connections, keeping your operations up-and-running and productive.

### Self-Test Portable GFCIs

- 15 and 20 A, 120 V
- Rainproof, outdoor rated GFCI module
- Complies with NEC and OSHA regulations for construction sites
- Automatic and manual reset versions



### Portable Outlet Boxes & Covers

- Single- and two-gang, feed-thru and pendant style boxes
- Flip-lid covers are rated NEMA Type 3R
- Resistant to heat, harsh chemicals and impacts



### Wetguard® Watertight Devices

- 15-30 A, 125-600 V
- NEMA and Non-NEMA configurations
- UL/Fed. Spec./CSA/NOM
- Plugs, connectors, inlets, outlets, covers and accessories
- Industry leading lifetime warranty
- IP66, IP67, IP69K\* and NEMA 4, 4X, 6, 6P

\* Plugs and connectors need caps attached in order to achieve IP69K rating



### Black & White® Extra Heavy-Duty Plugs & Connectors

- 15-50 A, 125-600 V
- NEMA and Non-NEMA configurations
- UL/Fed.Spec./CSA/NOM
- Corrosion-resistant devices available
- Industry leading lifetime warranty



### Rhino-Hide® Rough Service Devices

- 15-20 A, 125-250 V
- Straight blade and locking plugs, connectors and receptacles
- IP66, IP67, IP68, IP69K and NEMA 3R, 4, 4X, 6, 6P, 12, 13
- Industry leading lifetime warranty



### Industrial Grade Weatherproof Covers

- For use with 15, 20, 30 and 50 A devices
- IP64 and NEMA 3R rated
- Provisions for OSHA compliant lockout/tagout
- Pre-mounted gasket and stay open feature simplify installation



### LEV Series IEC 60309 Pin & Sleeve Devices

- 30 A & 60 A North American Configurations
- IP66, IP67, IP68 and IP69K Rated
- Improved safety and productivity with Inform™ Technology



### Electric Vehicle Charging Solutions

- For residential, commercial and public charging
- Track energy consumption with built in networking services or Leviton submetering solutions



J1772™

# rhino-hide® Single Pole Cam Devices



Superior performance and durability under the most severe operating conditions.



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LEVITON®

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

# Single Pole Cam Devices

SELECTION GUIDE

rhino-hide®



CAUTION  
NOT FOR INTERRUPTING  
CURRENT  
NE PAS UTILISER POUR  
COUPER LE COURANT

CABLE DIA

## rhino-hide® Superior performance and durability under the most severe operating conditions.



### Common Applications

- Sports, Entertainment and Movie Industry
- Theme Parks and Carnival Equipment
- Concert Venues and Convention Centers
- Motor and Generator Splices
- Ship-to-Shore Power
- Off Shore Oil Rigs
- Utilities
- Welding and Construction Sites
- Commercial and Navy Shipbuilding/Repair
- Petrochemical and Manufacturing Plant Turnarounds
- Mining Operations
- Stage Industry
- Airports

### Features and Benefits

- All 15 and 16/18 Series devices feature 35kA SCCR rating
- 17 Series devices feature 50ka SCCR rating
- 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
- UV and chemical resistant – high durometer thermoplastic elastomer (TPV - Santoprene)
- Santoprene construction provides improved resistance to UV degradation and damage to physical appearance, allowing for easier installation as vulcanizing is no longer necessary; rated HB per UL94
- Self compensating for wear – slit in male contact provides spring action for longer usage
- High conductivity – positive, vibration-proof connection provided by cam design
- Meets NEC requirements and is UL Listed and CSA Certified, except where noted
- 15, 16/18, and 17 Series devices are NEMA 3R-Rated for use in outdoor locations
- Operational temperature: -40 °F to 185 °F (-40 °C to 85 °C)

## 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.

### 15 SERIES

RATED UP TO  
**150 Amps**

PAGES 4-6

15 Series Taper Nose mini-cam plugs and receptacles are rated up to 150 Amps.

#### APPLICATIONS

Ideal for entertainment applications such as those found in carnivals and theme parks.



### 16 & 18 SERIES

RATED UP TO  
**400 Amps**

PAGES 7-21

16 and 18 Series Taper Nose Cam-Type devices are rated up to 400 Amps. 16 and 18 Series panel mount receptacles can be safely mounted directly to steel panels.\* Both series feature a positive locking connection that maintains integrity even when subjected to vibration.

#### APPLICATIONS

Ideal for power distribution applications such as construction sites, mining operations, welding, broadcasting, cell tower backup power, concerts, sound stages, movie making, television productions, sporting events and conventions.



### 17 SERIES

RATED UP TO  
**600 Amps**

### 22 & 23 SERIES

RATED UP TO  
**690 Amps**

PAGES 22-28

17 Series devices are rated up to 600 Amps while 22 and 23 Series are rated up to 690 Amps. 22 and 23 Series feature an additional latching mechanism for more security, especially in high-vibration applications like ship-to-shore power.

#### APPLICATIONS

Ideal for grueling, heavy-duty industrial use of generator test stations, water purification plants and electrochemical machining equipment.



### 49 SERIES

RATED UP TO  
**1135 Amps**

PAGES 29-34

49 Series single pole high amperage devices are rated up to 1135 Amps for the most extreme demanding conditions.

#### APPLICATIONS

Ideal for installation on both new and existing silicon-controlled rectifiers (SCRs) and generator stations or on new oil and gas rig construction.



\*Refer to instruction sheet guidelines for installation

## 15, 16 and 18 Series Cam-Type Plugs Features and Benefits

All devices feature 35kA SCCR rating  
Operational temperature: -40 °F to 185 °F  
(-40 °C to 85 °C)



16 Series panel mount receptacles can be safely mounted directly to steel panels

## 15/16/18 Series Plugs

| Plug Component | Material                                   |
|----------------|--------------------------------------------|
| Sleeve         | Thermoplastic Elastomer (TPV - Santoprene) |
| Contact        | Brass                                      |
| Strain Relief  | Copper Shim and Wire                       |

## 15 Series Taper Nose Devices - 150 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #8 to #2 Cable Range

### Male Plug - Single Set Screw Termination

(15D21-UG Shown)



### Female Plug - Single Set Screw Termination

(15D22-UY Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| #8         | 80           |
| #6         | 105          |
| #4         | 140          |
| #2         | 150          |

### Male Panel Receptacle - Threaded Stud

.50"L and .75"L threaded stud available  
(15R21-UR Shown)



### Female Panel Receptacle - Threaded Stud

.50"L and .75"L threaded stud available  
(15R22-UH Shown)



### Panel Mount Covers

(15S31-UR Shown)



### Male Protective Cap

(15P21-UB Shown)



### Female Protective Cap

(15P22-UW Shown)



## 15 Series Device Accessories

### "Com-A-Long" Assembly Tools

15CLM-U for Female Plug

15CLF-U for Male Plug



### Copper Shims

A0006

(Sold 10 per package)



### Strain Relief Wire

A0007

(Sold 10 per package)



### Set Screws

A0001

(Sold 10 per package)



## 15 Series Device Ordering Information

## CAM-TYPE PLUGS

|                                                                                                                         |        | Single Set Screw Termination   |             |
|-------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                                                         |        | Male Plug                                                                                                                                                                                        | Female Plug |
| <b>Cable Size: #8 - #2</b><br><b>Max Ampacity: 150 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15D21-UW                                                                                                                                                                                         | 15D22-UW    |
|                                                                                                                         | Black  | 15D21-UE                                                                                                                                                                                         | 15D22-UE    |
|                                                                                                                         | Brown  | 15D21-UH                                                                                                                                                                                         | 15D22-UH    |
|                                                                                                                         | Red    | 15D21-UR                                                                                                                                                                                         | 15D22-UR    |
|                                                                                                                         | Blue   | 15D21-UB                                                                                                                                                                                         | 15D22-UB    |
|                                                                                                                         | Orange | 15D21-UO                                                                                                                                                                                         | 15D22-UO    |
|                                                                                                                         | Green  | 15D21-UG                                                                                                                                                                                         | 15D22-UG    |
|                                                                                                                         | Yellow | 15D21-UY                                                                                                                                                                                         | 15D22-UY    |
| Replacement Contacts                                                                                                    |        | 15D21-UC                                                                                                                                                                                         | 15D22-UC    |

|                                                                                                                         |        | Crimp Tube Termination   |             |
|-------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                                                         |        | Male Plug                                                                                                                                                                                  | Female Plug |
| <b>Cable Size: #8 - #4</b><br><b>Max Ampacity: 140 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15D23-UW                                                                                                                                                                                   | 15D24-UW    |
|                                                                                                                         | Black  | 15D23-UE                                                                                                                                                                                   | 15D24-UE    |
|                                                                                                                         | Brown  | 15D23-UH                                                                                                                                                                                   | 15D24-UH    |
|                                                                                                                         | Red    | 15D23-UR                                                                                                                                                                                   | 15D24-UR    |
|                                                                                                                         | Blue   | 15D23-UB                                                                                                                                                                                   | 15D24-UB    |
|                                                                                                                         | Orange | 15D23-UO                                                                                                                                                                                   | 15D24-UO    |
|                                                                                                                         | Green  | 15D23-UG                                                                                                                                                                                   | 15D24-UG    |
|                                                                                                                         | Yellow | 15D23-UY                                                                                                                                                                                   | 15D24-UY    |
| Replacement Contacts                                                                                                    |        | 15D23-UC                                                                                                                                                                                   | 15D24-UC    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

|                                                                                                                         |        | .5" Threaded Stud Termination 90°   |          | .75" Threaded Stud Termination 90°   |           |
|-------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                         |        | Male                                                                                                                                                                                                       | Female   | Male                                                                                                                                                                                                           | Female    |
| <b>Cable Size: #8 - #2</b><br><b>Max Ampacity: 150 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b> | White  | 15R21-UW                                                                                                                                                                                                   | 15R22-UW | 15R21-1UW                                                                                                                                                                                                      | 15R22-1UW |
|                                                                                                                         | Black  | 15R21-UE                                                                                                                                                                                                   | 15R22-UE | 15R21-1UE                                                                                                                                                                                                      | 15R22-1UE |
|                                                                                                                         | Brown  | 15R21-UH                                                                                                                                                                                                   | 15R22-UH | 15R21-1UH                                                                                                                                                                                                      | 15R22-1UH |
|                                                                                                                         | Red    | 15R21-UR                                                                                                                                                                                                   | 15R22-UR | 15R21-1UR                                                                                                                                                                                                      | 15R22-1UR |
|                                                                                                                         | Blue   | 15R21-UB                                                                                                                                                                                                   | 15R22-UB | 15R21-1UB                                                                                                                                                                                                      | 15R22-1UB |
|                                                                                                                         | Orange | 15R21-UO                                                                                                                                                                                                   | 15R22-UO | 15R21-1UO                                                                                                                                                                                                      | 15R22-1UO |
|                                                                                                                         | Green  | 15R21-UG                                                                                                                                                                                                   | 15R22-UG | 15R21-1UG                                                                                                                                                                                                      | 15R22-1UG |
|                                                                                                                         | Yellow | 15R21-UY                                                                                                                                                                                                   | 15R22-UY | 15R21-1UY                                                                                                                                                                                                      | 15R22-1UY |

## REPLACEMENT PARTS

| #8 - #4 Replacement Sleeves                                           |           |             | Protective Caps |          | Panel Mount Covers |
|-----------------------------------------------------------------------|-----------|-------------|-----------------|----------|--------------------|
|                                                                       | Male Plug | Female Plug | Male            | Female   | Male/Female        |
| White                                                                 | 15SDM-1UW | 15SDF-1UW   | 15P21-UW        | 15P22-UW | 15S31-UW           |
| Black                                                                 | 15SDM-1UE | 15SDF-1UE   | 15P21-UE        | 15P22-UE | 15S31-UE           |
| Brown                                                                 | —         | —           | —               | —        | 15S31-UH           |
| Red                                                                   | 15SDM-1UR | 15SDF-1UR   | 15P21-UR        | 15P22-UR | 15S31-UR           |
| Blue                                                                  | —         | —           | 15P21-UB        | 15P22-UB | 15S31-UB           |
| Orange                                                                | —         | —           | —               | —        | 15S31-UO           |
| Green                                                                 | —         | —           | 15P21-UG        | 15P22-UG | 15S31-UG           |
| Yellow                                                                | —         | —           | —               | —        | 15S31-UY           |
| Clear                                                                 | —         | —           | —               | —        | 15S31-UCL          |
| Brass Locking Ground Pin (for 49 Series and 15D22/15D24 Female Plugs) |           |             |                 | 15GND-UM |                    |

## 16 Series Taper Nose Plugs - 400 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #6 to 4/0 Cable Range

### Male Plug - Double Set Screw Termination

(16D24-UG Shown)



### Female Plug - Double Set Screw Termination

(16D31-UO Shown)



### Male Plug - Single Set Screw Termination Contact

(16D21-UC Shown)



### Male Plug - Crimp Tube Termination Contact

(For 16D25 Shown)



### Female Plug - Single Set Screw Termination Contact

(16D29-UC Shown)



### Female Plug - Crimp Tube Termination Contact

(For 16D34 Shown)



### Male Plug - Flame Resistant for Mining Applications

(16D40-U Shown)



### Female Plug - Flame Resistant for Mining Applications

(16D41-U Shown)



**FLAME RESISTANT  
PLUGS**

Rated V-0 per UL94

### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| #6         | 105          |
| #4         | 140          |
| #2         | 190          |
| #1         | 220          |
| 1/0        | 260          |
| 2/0        | 300          |
| 3/0        | 350          |
| 4/0        | 400          |

### Female Plug with Alternate Cord Entry - Double Set Screw Termination

(16D45-AUO Shown)



Fits Most  
#6 - #2 Wire  
Without Cutting

## 16 Series Device Accessories

### “Com-A-Long” Assembly Tools

16CLM-U for Female Plug

16CLF-U for Male Plug



### Copper Shims

A0004

(Sold 10 per package)



### Strain Relief Wire

A0003

(Sold 10 per package)



### Set Screws

A0002 (Sold 10 per package)



### Thermoplastic Screws

for use with all 16 Series plugs

A0010 (Sold 10 per package)



### Insulating Screw

for 16F and 16M receptacles only

A0005 (Sold 10 per package)



# 16 Series Taper Nose Plug Ordering Information

## CAM-TYPE PLUGS

|                                                                                             |        | Double Set Screw Termination   |             | Double Set Screw Termination  <br>Alternate Cord Entry |              |
|---------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|                                                                                             |        | Male Plug                                                                                                                                                                                        | Female Plug | Male Plug*                                                                                                                                                                                                                   | Female Plug* |
| Cable Size: #6 - #2<br>Max Ampacity: 190 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D44-UW                                                                                                                                                                                         | 16D45-UW    | 16D44-AUW                                                                                                                                                                                                                    | 16D45-AUW    |
|                                                                                             | Black  | 16D44-UE                                                                                                                                                                                         | 16D45-UE    | 16D44-AUE                                                                                                                                                                                                                    | 16D45-AUE    |
|                                                                                             | Brown  | 16D44-UH                                                                                                                                                                                         | 16D45-UH    | 16D44-AUH                                                                                                                                                                                                                    | 16D45-AUH    |
|                                                                                             | Red    | 16D44-UR                                                                                                                                                                                         | 16D45-UR    | 16D44-AUR                                                                                                                                                                                                                    | 16D45-AUR    |
|                                                                                             | Blue   | 16D44-UB                                                                                                                                                                                         | 16D45-UB    | 16D44-AUB                                                                                                                                                                                                                    | 16D45-AUB    |
|                                                                                             | Orange | 16D44-UO                                                                                                                                                                                         | 16D45-UO    | 16D44-AUO                                                                                                                                                                                                                    | 16D45-AUO    |
|                                                                                             | Green  | 16D44-UG                                                                                                                                                                                         | 16D45-UG    | 16D44-AUG                                                                                                                                                                                                                    | 16D45-AUG    |
|                                                                                             | Yellow | 16D44-UY                                                                                                                                                                                         | 16D45-UY    | 16D44-AUY                                                                                                                                                                                                                    | 16D45-AUY    |

NOTE: \*Flexible sleeve allows for #6 and #2 wire without cutting sleeve

|                                                                                             |        | Crimp Tube Termination   |             |
|---------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                             |        | Male Plug                                                                                                                                                                                  | Female Plug |
| Cable Size: #2 - #1<br>Max Ampacity: 220 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D25-UW                                                                                                                                                                                   | 16D34-UW    |
|                                                                                             | Black  | 16D25-UE                                                                                                                                                                                   | 16D34-UE    |
|                                                                                             | Brown  | —                                                                                                                                                                                          | —           |
|                                                                                             | Red    | 16D25-UR                                                                                                                                                                                   | 16D34-UR    |
|                                                                                             | Blue   | 16D25-UB                                                                                                                                                                                   | 16D34-UB    |
|                                                                                             | Orange | —                                                                                                                                                                                          | —           |
|                                                                                             | Green  | 16D25-UG                                                                                                                                                                                   | 16D34-UG    |
|                                                                                             | Yellow | —                                                                                                                                                                                          | —           |

|                                                                                              |        | Single Set Screw Termination   |             | Double Set Screw Termination  <br>Bulk Pack of 25 |             |           |             |
|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|
|                                                                                              |        | Male Plug                                                                                                                                                                                            | Female Plug | Male Plug                                                                                                                                                                                                                   | Female Plug | Male Plug | Female Plug |
| Cable Size: #2 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D21-UW                                                                                                                                                                                             | 16D29-UW    | 16D22-UW                                                                                                                                                                                                                    | 16D31-UW    | 16D22-BUW | 16D31-BUW   |
|                                                                                              | Black  | 16D21-UE                                                                                                                                                                                             | 16D29-UE    | 16D22-UE                                                                                                                                                                                                                    | 16D31-UE    | 16D22-BUE | 16D31-BUE   |
|                                                                                              | Brown  | 16D21-UH                                                                                                                                                                                             | 16D29-UH    | 16D22-UH                                                                                                                                                                                                                    | 16D31-UH    | 16D22-BUH | 16D31-BUH   |
|                                                                                              | Red    | 16D21-UR                                                                                                                                                                                             | 16D29-UR    | 16D22-UR                                                                                                                                                                                                                    | 16D31-UR    | 16D22-BUR | 16D31-BUR   |
|                                                                                              | Blue   | 16D21-UB                                                                                                                                                                                             | 16D29-UB    | 16D22-UB                                                                                                                                                                                                                    | 16D31-UB    | 16D22-BUB | 16D31-BUB   |
|                                                                                              | Orange | 16D21-UO                                                                                                                                                                                             | 16D29-UO    | 16D22-UO                                                                                                                                                                                                                    | 16D31-UO    | 16D22-BUO | 16D31-BUO   |
|                                                                                              | Green  | 16D21-UG                                                                                                                                                                                             | 16D29-UG    | 16D22-UG                                                                                                                                                                                                                    | 16D31-UG    | 16D22-BUG | 16D31-BUG   |
|                                                                                              | Yellow | 16D21-UY                                                                                                                                                                                             | 16D29-UY    | 16D22-UY                                                                                                                                                                                                                    | 16D31-UY    | 16D22-BUY | 16D31-BUY   |
| Replacement Contacts                                                                         |        | —                                                                                                                                                                                                    | —           | 16D22-UC                                                                                                                                                                                                                    | 16D31-UC    | 16D22-BUC | 16D31-BUC   |

|                                                                                               |        | Crimp Tube Termination   |             |
|-----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                               |        | Male Plug                                                                                                                                                                                      | Female Plug |
| Cable Size: 1/0 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D26-UW                                                                                                                                                                                       | 16D35-UW    |
|                                                                                               | Black  | 16D26-UE                                                                                                                                                                                       | 16D35-UE    |
|                                                                                               | Brown  | 16D26-UH                                                                                                                                                                                       | 16D35-UH    |
|                                                                                               | Red    | 16D26-UR                                                                                                                                                                                       | 16D35-UR    |
|                                                                                               | Blue   | 16D26-UB                                                                                                                                                                                       | 16D35-UB    |
|                                                                                               | Orange | 16D26-UO                                                                                                                                                                                       | 16D35-UO    |
|                                                                                               | Green  | 16D26-UG                                                                                                                                                                                       | 16D35-UG    |
|                                                                                               | Yellow | 16D26-UY                                                                                                                                                                                       | 16D35-UY    |

## 16 Series Taper Nose Plug Ordering Information

## CAM-TYPE PLUGS

| Single Set Screw Termination   |        |           |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
|                                                                                                                                                                                                  |        | Male Plug | Female Plug |
| <b>Cable Size: 2/0 - 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                        | White  | 16D23-UW  | 16D32-UW    |
|                                                                                                                                                                                                  | Black  | 16D23-UE  | 16D32-UE    |
|                                                                                                                                                                                                  | Brown  | 16D23-UH  | 16D32-UH    |
|                                                                                                                                                                                                  | Red    | 16D23-UR  | 16D32-UR    |
|                                                                                                                                                                                                  | Blue   | 16D23-UB  | 16D32-UB    |
|                                                                                                                                                                                                  | Orange | 16D23-UO  | 16D32-UO    |
|                                                                                                                                                                                                  | Green  | 16D23-UG  | 16D32-UG    |
|                                                                                                                                                                                                  | Gray   | —         | —           |
|                                                                                                                                                                                                  | Yellow | 16D23-UY  | 16D32-UY    |
| Replacement Contacts                                                                                                                                                                             |        | 16D23-UC  | 16D32-UC    |

| Double Set Screw Termination   |        |                 |             |           |             |                                              |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-------------|-----------|-------------|----------------------------------------------|-------------|
|                                                                                                                                                                                                      |        | Bulk Pack of 25 |             |           |             | Set Screws Pre-Installed,<br>Bulk Pack of 30 |             |
|                                                                                                                                                                                                      |        | Male Plug       | Female Plug | Male Plug | Female Plug | Male Plug                                    | Female Plug |
| <b>Cable Size: 2/0 - 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                            | White  | 16D24-UW        | 16D33-UW    | 16D24-BUW | 16D33-BUW   | 16D24-TUW                                    | 16D33-TUW   |
|                                                                                                                                                                                                      | Black  | 16D24-UE        | 16D33-UE    | 16D24-BUE | 16D33-BUE   | 16D24-TUE                                    | 16D33-TUE   |
|                                                                                                                                                                                                      | Brown  | 16D24-UH        | 16D33-UH    | 16D24-BUH | 16D33-BUH   | 16D24-TUH                                    | 16D33-TUH   |
|                                                                                                                                                                                                      | Red    | 16D24-UR        | 16D33-UR    | 16D24-BUR | 16D33-BUR   | 16D24-TUR                                    | 16D33-TUR   |
|                                                                                                                                                                                                      | Blue   | 16D24-UB        | 16D33-UB    | 16D24-BUB | 16D33-BUB   | 16D24-TUB                                    | 16D33-TUB   |
|                                                                                                                                                                                                      | Orange | 16D24-UO        | 16D33-UO    | 16D24-BUO | 16D33-BUO   | 16D24-TUO                                    | 16D33-TUO   |
|                                                                                                                                                                                                      | Green  | 16D24-UG        | 16D33-UG    | 16D24-BUG | 16D33-BUG   | 16D24-TUG                                    | 16D33-TUG   |
|                                                                                                                                                                                                      | Gray   | 16D24-UGY       | 16D33-UGY   | —         | —           | —                                            | —           |
|                                                                                                                                                                                                      | Yellow | 16D24-UY        | 16D33-UY    | 16D24-BUY | 16D33-BUY   | 16D24-TUY                                    | 16D33-TUY   |
| Replacement Contacts                                                                                                                                                                                 |        | 16D24-UC        | 16D33-UC    | 16D24-UC* | 16D33-UC*   | 16D24-UC*                                    | 16D33-UC*   |

| Double Set Screw Termination   |        |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
| Pre-cut for Cable 4/0, Bulk Pack of 25                                                                                                                                                               |        |           |             |
|                                                                                                                                                                                                      |        | Male Plug | Female Plug |
| <b>Cable Size: Pre-Cut 4/0</b><br><b>Max Ampacity: 400 A</b><br><b>Voltage: 600 VAC/DC</b><br><br><b>UL/CSA 1691 Listed</b>                                                                          | White  | 16D24-4UW | 16D33-4UW   |
|                                                                                                                                                                                                      | Black  | 16D24-4UE | 16D33-4UE   |
|                                                                                                                                                                                                      | Brown  | 16D24-4UH | 16D33-4UH   |
|                                                                                                                                                                                                      | Red    | 16D24-4UR | 16D33-4UR   |
|                                                                                                                                                                                                      | Blue   | 16D24-4UB | 16D33-4UB   |
|                                                                                                                                                                                                      | Orange | 16D24-4UO | 16D33-4UO   |
|                                                                                                                                                                                                      | Green  | 16D24-4UG | 16D33-4UG   |
|                                                                                                                                                                                                      | Yellow | 16D24-4UY | 16D33-4UY   |
| Replacement Contacts                                                                                                                                                                                 |        | 16D24-UC* | 16D33-UC*   |

NOTE: \*16D24-UC and 16D33-UC not sold in Bulk Packs

## 16 Series Taper Nose Plug Ordering Information

### CAM-TYPE PLUGS

|                                                                                               |        | Crimp Tube Termination  |             |
|-----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------|-------------|
|                                                                                               |        | Male Plug                                                                                                | Female Plug |
| Cable Size: 3/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16D28-UW                                                                                                 | 16D37-UW    |
|                                                                                               | Black  | 16D28-UE                                                                                                 | 16D37-UE    |
|                                                                                               | Brown  | 16D28-UH                                                                                                 | 16D37-UH    |
|                                                                                               | Red    | 16D28-UR                                                                                                 | 16D37-UR    |
|                                                                                               | Blue   | 16D28-UB                                                                                                 | 16D37-UB    |
|                                                                                               | Orange | 16D28-UO                                                                                                 | 16D37-UO    |
|                                                                                               | Green  | 16D28-UG                                                                                                 | 16D37-UG    |
|                                                                                               | Yellow | 16D28-UY                                                                                                 | 16D37-UY    |

### REPLACEMENT SLEEVES (TPV)

|                                                                            |        | For Plugs 2/0 to 4/0 |             | For Plugs #2 - 2/0 |             |
|----------------------------------------------------------------------------|--------|----------------------|-------------|--------------------|-------------|
|                                                                            |        | Male Plug            | Female Plug | Male Plug          | Female Plug |
| (Not for use with Flame Resistant Cam-Type Plugs appearing in table below) | White  | 16SDM-1UW            | 16SDF-1UW   | 16SDM-2UW          | 16SDF-2UW   |
|                                                                            | Black  | 16SDM-1UE            | 16SDF-1UE   | 16SDM-2UE          | 16SDF-2UE   |
|                                                                            | Brown  | 16SDM-1UH            | 16SDF-1UH   | —                  | —           |
|                                                                            | Red    | 16SDM-1UR            | 16SDF-1UR   | 16SDM-2UR          | 16SDF-2UR   |
|                                                                            | Blue   | 16SDM-1UB            | 16SDF-1UB   | 16SDM-2UB          | 16SDF-2UB   |
|                                                                            | Orange | 16SDM-1UO            | 16SDF-1UO   | —                  | —           |
|                                                                            | Green  | 16SDM-1UG            | 16SDF-1UG   | 16SDM-2UG          | 16SDF-2UG   |
|                                                                            | Yellow | 16SDM-1UY            | 16SDF-1UY   | —                  | —           |

### FLAME RESISTANT CAM-TYPE PLUGS

|                                                                                                                   |       | Double Set Screw Termination |             |
|-------------------------------------------------------------------------------------------------------------------|-------|------------------------------|-------------|
|                                                                                                                   |       | Male Plug                    | Female Plug |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br>Flame Resistant<br><br>Rated V-0 per UL 94 | White | 16D40-U*                     | 16D41-U*    |

NOTE: \*16D40-U and 16D41-U are not UL Listed

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

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



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



**Female - .75"L Threaded Stud**  
(Rear View 16R24-UW Shown)



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



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



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



**Female Terminal Connector -  
1 Hole, Angle Style**  
(16F21-UB Shown)



**Male Terminal Connector -  
2 Holes, Angle Style**  
(16M21-2UW Shown)



**Panel Mount Cover**  
(16S31-UCL Cover Shown with 16R21-UE Receptacle)



**Male Protective Cap**  
For use with Male Receptacles  
(16P21-UO Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(16P22-UO Shown)



# 16 Series Taper Nose Receptacle Ordering Information

## CAM-TYPE PANEL MOUNT RECEPTACLE

|                                                                                               |        | Double Set Screw Termination  |                              |             |           |             |
|-----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|-----------|-------------|
|                                                                                               |        | Male, 90°                                                                                                        | Male, 90°<br>Bulk Pack of 20 | Female, 90° | Male, 45° | Female, 45° |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R21-UW                                                                                                         | 16R21-BUW                    | 16R22-UW    | 16R27-UW  | 16R28-UW    |
|                                                                                               | Black  | 16R21-UE                                                                                                         | 16R21-BUE                    | 16R22-UE    | 16R27-UE  | 16R28-UE    |
|                                                                                               | Brown  | 16R21-UH                                                                                                         | 16R21-BUH                    | 16R22-UH    | 16R27-UH  | 16R28-UH    |
|                                                                                               | Red    | 16R21-UR                                                                                                         | 16R21-BUR                    | 16R22-UR    | 16R27-UR  | 16R28-UR    |
|                                                                                               | Blue   | 16R21-UB                                                                                                         | 16R21-BUB                    | 16R22-UB    | 16R27-UB  | 16R28-UB    |
|                                                                                               | Orange | 16R21-UO                                                                                                         | 16R21-BUO                    | 16R22-UO    | 16R27-UO  | 16R28-UO    |
|                                                                                               | Green  | 16R21-UG                                                                                                         | 16R21-BUG                    | 16R22-UG    | 16R27-UG  | 16R28-UG    |
|                                                                                               | Gray   | —                                                                                                                | —                            | —           | 16R27-UGY | —           |
|                                                                                               | Yellow | 16R21-UY                                                                                                         | 16R21-BUY                    | 16R22-UY    | 16R27-UY  | 16R28-UY    |

|                                                                                              |        | .75"L Threaded Stud Termination  |             |                              |                                                      |
|----------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|------------------------------------------------------|
|                                                                                              |        | Male, 90°                                                                                                           | Female, 90° | Female, 90°<br>w/microswitch | Female, 90°<br>w/microswitch &<br>self-clinching nut |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R23-UW                                                                                                            | 16R24-UW    | 16RSW-UW <sup>†</sup>        | 16RSW-TUW <sup>†*</sup>                              |
|                                                                                              | Black  | 16R23-UE                                                                                                            | 16R24-UE    | 16RSW-UE <sup>†</sup>        | 16RSW-TUE <sup>†*</sup>                              |
|                                                                                              | Brown  | 16R23-UH                                                                                                            | 16R24-UH    | 16RSW-UH <sup>†</sup>        | —                                                    |
|                                                                                              | Red    | 16R23-UR                                                                                                            | 16R24-UR    | 16RSW-UR <sup>†</sup>        | 16RSW-TUR <sup>†*</sup>                              |
|                                                                                              | Blue   | 16R23-UB                                                                                                            | 16R24-UB    | 16RSW-UB <sup>†</sup>        | 16RSW-TUB <sup>†*</sup>                              |
|                                                                                              | Orange | 16R23-UO                                                                                                            | 16R24-UO    | 16RSW-UO <sup>†</sup>        | —                                                    |
|                                                                                              | Green  | 16R23-UG                                                                                                            | 16R24-UG    | 16RSW-UG <sup>†</sup>        | 16RSW-TUG <sup>†*</sup>                              |
|                                                                                              | Yellow | 16R23-UY                                                                                                            | 16R24-UY    | 16RSW-UY <sup>†</sup>        | —                                                    |

NOTE: <sup>†</sup>16RSW is not UL/CSA 1691 Listed • <sup>\*</sup>No washer or extended nut required

|                                                                                              |        | .75"L Threaded Stud Termination  |             | Half Round w/Tapped Hole  |             |
|----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                              |        | Male, 45°                                                                                                            | Female, 45° | Male, 90°                                                                                                      | Female, 90° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R29-UW                                                                                                             | 16R30-UW    | 16R19-UW                                                                                                       | 16R20-UW    |
|                                                                                              | Black  | 16R29-UE                                                                                                             | 16R30-UE    | 16R19-UE                                                                                                       | 16R20-UE    |
|                                                                                              | Brown  | 16R29-UH                                                                                                             | 16R30-UH    | 16R19-UH                                                                                                       | 16R20-UH    |
|                                                                                              | Red    | 16R29-UR                                                                                                             | 16R30-UR    | 16R19-UR                                                                                                       | 16R20-UR    |
|                                                                                              | Blue   | 16R29-UB                                                                                                             | 16R30-UB    | 16R19-UB                                                                                                       | 16R20-UB    |
|                                                                                              | Orange | 16R29-UO                                                                                                             | 16R30-UO    | 16R19-UO                                                                                                       | 16R20-UO    |
|                                                                                              | Green  | 16R29-UG                                                                                                             | 16R30-UG    | 16R19-UG                                                                                                       | 16R20-UG    |
|                                                                                              | Gray   | 16R29-UGY                                                                                                            | —           | —                                                                                                              | —           |
|                                                                                              | Yellow | 16R29-UY                                                                                                             | 16R30-UY    | 16R19-UY                                                                                                       | 16R20-UY    |

|                                                                                              |        | 1.125"L Threaded Stud Termination  |             |
|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                              |        | Male, 45°                                                                                                              | Female, 45° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16R29-1UW                                                                                                              | 16R30-1UW   |
|                                                                                              | Black  | 16R29-1UE                                                                                                              | 16R30-1UE   |
|                                                                                              | Brown  | 16R29-1UH                                                                                                              | 16R30-1UH   |
|                                                                                              | Red    | 16R29-1UR                                                                                                              | 16R30-1UR   |
|                                                                                              | Blue   | 16R29-1UB                                                                                                              | 16R30-1UB   |
|                                                                                              | Orange | 16R29-1UO                                                                                                              | 16R30-1UO   |
|                                                                                              | Green  | 16R29-1UG                                                                                                              | 16R30-1UG   |
|                                                                                              | Yellow | 16R29-1UY                                                                                                              | 16R30-1UY   |

## 16 Series Taper Nose Receptacle Ordering Information

## CAM-TYPE PANEL MOUNT RECEPTACLE

| 1.125"L Threaded Stud Termination   |        |           |             |           |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|-----------|-------------|
| Self-Clinching Nut                                                                                                                                                                                        |        |           |             |           |             |
|                                                                                                                                                                                                           |        | Male, 90° | Female, 90° | Male, 90° | Female, 90° |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                                                                                              | White  | 16R23-1UW | 16R24-1UW   | 16R25-1UW | 16R26-1UW   |
|                                                                                                                                                                                                           | Black  | 16R23-1UE | 16R24-1UE   | 16R25-1UE | 16R26-1UE   |
|                                                                                                                                                                                                           | Brown  | 16R23-1UH | 16R24-1UH   | 16R25-1UH | 16R26-1UH   |
|                                                                                                                                                                                                           | Red    | 16R23-1UR | 16R24-1UR   | 16R25-1UR | 16R26-1UR   |
|                                                                                                                                                                                                           | Blue   | 16R23-1UB | 16R24-1UB   | 16R25-1UB | 16R26-1UB   |
|                                                                                                                                                                                                           | Orange | 16R23-1UO | 16R24-1UO   | 16R25-1UO | 16R26-1UO   |
|                                                                                                                                                                                                           | Green  | 16R23-1UG | 16R24-1UG   | 16R25-1UG | 16R26-1UG   |
|                                                                                                                                                                                                           | Yellow | 16R23-1UY | 16R24-1UY   | 16R25-1UY | 16R26-1UY   |

| 1.25"L Threaded Stud Termination<br>- 0.75" Extended Shoulder   |        |           | 1.25"L Threaded Stud Termination<br>  |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                                                                                                   |        | Male, 90° | Female, 90°                                                                                                                                                                                                 |           |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                                                                                                                      | White  | 16R31-XW  | 16R32-XW                                                                                                                                                                                                    | —         |
|                                                                                                                                                                                                                                   | Black  | 16R31-XE  | 16R32-XE                                                                                                                                                                                                    | —         |
|                                                                                                                                                                                                                                   | Brown  | 16R31-XH  | 16R32-XH                                                                                                                                                                                                    | —         |
|                                                                                                                                                                                                                                   | Red    | 16R31-XR  | 16R32-XR                                                                                                                                                                                                    | 16R24-2UR |
|                                                                                                                                                                                                                                   | Blue   | 16R31-XB  | 16R32-XB                                                                                                                                                                                                    | —         |
|                                                                                                                                                                                                                                   | Orange | 16R31-XO  | 16R32-XO                                                                                                                                                                                                    | —         |
|                                                                                                                                                                                                                                   | Green  | 16R31-XG  | 16R32-XG                                                                                                                                                                                                    | 16R23-2UG |
|                                                                                                                                                                                                                                   | Yellow | 16R31-XY  | 16R32-XY                                                                                                                                                                                                    | —         |

| 1.25"L Threaded Stud Termination<br>- 0.75" Extended Shoulder, Bulk Pack of 15   |        |                        | 1.50"L Threaded Stud Termination<br>  |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                                                                                                                           |        | Male, 90°              | Female, 90°                                                                                                                                                                                                     |           |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                                                                                                                                              | White  | 16R31-MXW <sup>†</sup> | 16R32-MXW <sup>†</sup>                                                                                                                                                                                          | 16R23-4UW |
|                                                                                                                                                                                                                                                           | Black  | 16R31-MXE <sup>†</sup> | 16R32-MXE <sup>†</sup>                                                                                                                                                                                          | 16R23-4UE |
|                                                                                                                                                                                                                                                           | Brown  | —                      | —                                                                                                                                                                                                               | 16R23-4UH |
|                                                                                                                                                                                                                                                           | Red    | 16R31-MXR <sup>†</sup> | 16R32-MXR <sup>†</sup>                                                                                                                                                                                          | 16R23-4UR |
|                                                                                                                                                                                                                                                           | Blue   | 16R31-MXB <sup>†</sup> | 16R32-MXB <sup>†</sup>                                                                                                                                                                                          | 16R23-4UB |
|                                                                                                                                                                                                                                                           | Orange | —                      | —                                                                                                                                                                                                               | 16R23-4UO |
|                                                                                                                                                                                                                                                           | Green  | 16R31-MXG <sup>†</sup> | 16R32-MXG <sup>†</sup>                                                                                                                                                                                          | 16R23-4UG |
|                                                                                                                                                                                                                                                           | Yellow | —                      | —                                                                                                                                                                                                               | 16R23-4UY |

NOTE: <sup>†</sup> Available with (4) threaded inserts and (4) 10-32 Phillips Pan Head screws.

## TERMINAL CONNECTORS

|                                                                    |        | Bus Bar Mount |               |             |               |
|--------------------------------------------------------------------|--------|---------------|---------------|-------------|---------------|
|                                                                    |        | Angled Male   | Angled Female | Offset Male | Offset Female |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC | White  | 16M21-2UW     | 16F21-UW      | 16M22-UW    | 16F22-UW      |
|                                                                    | Black  | 16M21-2UE     | 16F21-UE      | 16M22-UE    | 16F22-UE      |
|                                                                    | Brown  | —             | 16F21-UH      | 16M22-UH    | 16F22-UH      |
|                                                                    | Red    | 16M21-2UR     | 16F21-UR      | 16M22-UR    | 16F22-UR      |
|                                                                    | Blue   | 16M21-2UB     | 16F21-UB      | 16M22-UB    | 16F22-UB      |
|                                                                    | Orange | —             | 16F21-UO      | 16M22-UO    | 16F22-UO      |
|                                                                    | Green  | 16M21-2UG     | 16F21-UG      | 16M22-UG    | 16F22-UG      |
|                                                                    | Yellow | —             | 16F21-UY      | 16M22-UY    | 16F22-UY      |

## 16 Series Covers and Caps Ordering Information

### COVERS AND CAPS

| Panel Mount Covers                                   |        |                                                       | Caps                                       |                                                |
|------------------------------------------------------|--------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------|
| For Use With<br>16 Series Panel Mount<br>Receptacles |        | Male/Female<br>(For 90° panel mount receptacles only) | Male<br>(For use with male<br>receptacles) | Female<br>(For use with female<br>receptacles) |
|                                                      | 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-UO                                   | 16P22-UO                                       |
|                                                      | Green  | 16S31-UG                                              | 16P21-UG                                   | 16P22-UG                                       |
|                                                      | Yellow | 16S31-UY                                              | 16P21-UY                                   | 16P22-UY                                       |
|                                                      | Clear  | 16S31-UCL                                             | —                                          | —                                              |

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

**Double Male  
(M-M) Adapter**  
(16A25-UH Shown)



**Double Female  
(F-F) Adapter**  
(16A24-UB Shown)



**Paralleling Tee  
(F-M-M) Adapter**  
(16A21-UY Shown)



**Tapping Tee  
(F-F-M) Adapter**  
(16A22-UE Shown)



**45° 3-Fer  
(M-F-F-F) Adapter**  
(16A23-UB Shown)



**45° Reversed  
3-Fer (F-M-M-M)  
Adapter**  
(16A26-UG Shown)



**Assembled Paralleling Tee (F-M-M) -  
24" Cable, 34.5" Total Length**  
(16A31-UE Shown)



**Assembled Tapping Tee (F-F-M) -  
24" Cable, 34.57" Total Length**  
(16A32-UR Shown)



**Assembled 45° 3-Fer (M-F-F-F) -  
24" Cable, 40.25" Total Length**  
(16A33-UB Shown)



**Assembled Reverse 45° 3-Fer (F-M-M-M) -  
24" Cable, 40.16" Total Length**  
(16A36-UG Shown)



## 16 Series Adapter Ordering Information

### CAM-TYPE ADAPTERS

|                                                                                                               |        | Paralleling Tee<br>F-M-M | Tapping Tee<br>F-F-M         |                      |                              |
|---------------------------------------------------------------------------------------------------------------|--------|--------------------------|------------------------------|----------------------|------------------------------|
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                          | White  | 16A21-UW                 | 16A22-UW                     |                      |                              |
|                                                                                                               | Black  | 16A21-UE                 | 16A22-UE                     |                      |                              |
|                                                                                                               | Brown  | 16A21-UH                 | 16A22-UH                     |                      |                              |
|                                                                                                               | Red    | 16A21-UR                 | 16A22-UR                     |                      |                              |
|                                                                                                               | Blue   | 16A21-UB                 | 16A22-UB                     |                      |                              |
|                                                                                                               | Orange | 16A21-UO                 | 16A22-UO                     |                      |                              |
|                                                                                                               | Green  | 16A21-UG                 | 16A22-UG                     |                      |                              |
|                                                                                                               | Yellow | 16A21-UY                 | 16A22-UY                     |                      |                              |
|                                                                                                               |        | 45° 3-Fer<br>M-F-F-F     | Reverse 45° 3-Fer<br>F-M-M-M | Double Male<br>M-M   | Double Female<br>F-F         |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed                                          | White  | 16A23-UW                 | 16A26-UW                     | 16A25-UW             | 16A24-UW                     |
|                                                                                                               | Black  | 16A23-UE                 | 16A26-UE                     | 16A25-UE             | 16A24-UE                     |
|                                                                                                               | Brown  | 16A23-UH                 | 16A26-UH                     | 16A25-UH             | 16A24-UH                     |
|                                                                                                               | Red    | 16A23-UR                 | 16A26-UR                     | 16A25-UR             | 16A24-UR                     |
|                                                                                                               | Blue   | 16A23-UB                 | 16A26-UB                     | 16A25-UB             | 16A24-UB                     |
|                                                                                                               | Orange | 16A23-UO                 | 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<br>F-M-M | Tapping Tee<br>F-F-M         | 45° 3-Fer<br>M-F-F-F | Reverse 45° 3-Fer<br>F-M-M-M |
| Assembled Adapters<br>Cable Size: 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 16A31-UW                 | 16A32-UW                     | 16A33-UW             | 16A36-UW                     |
|                                                                                                               | Black  | 16A31-UE                 | 16A32-UE                     | 16A33-UE             | 16A36-UE                     |
|                                                                                                               | Red    | 16A31-UR                 | 16A32-UR                     | 16A33-UR             | 16A36-UR                     |
|                                                                                                               | Blue   | 16A31-UB                 | 16A32-UB                     | 16A33-UB             | 16A36-UB                     |
|                                                                                                               | Green  | 16A31-UG                 | 16A32-UG                     | 16A33-UG             | 16A36-UG                     |

## 18 Series Ball Nose Devices - 400 A, 600 VAC/DC Max NEMA 3R Rated for Outdoor Use • #2 to 4/0 Cable Range

**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)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| #2         | 190          |
| 1/0        | 260          |
| 2/0        | 300          |
| 4/0        | 400          |

**Female Terminal Connector - 1 Hole, Angle Style**  
(18F21-UW Shown)



**Female Terminal Connector - 1 Hole, Offset Style**  
(18F22-UE Shown)



**Male Panel Mount Receptacle - .75" L 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)



**Paralleling Tee  
(F-M-M) Adapter**  
(18A21-UE Shown)



**45° 3-Fer  
(M-F-F-F) Adapter**  
(18A23-UG Shown)



**Male  
Protective Cap**  
For use with Male Receptacles  
(18P21-UG Shown)



**Female  
Protective Cap**  
For use with Female Receptacles  
(18P22-UB Shown)



**“Com-A-Long” Assembly Tools**

16CLM-U for Female Plug

16CLF-U for Male Plug



**Copper Shims**

A0004

(Sold 10 per package)



**Strain Relief Wire**

A0003

(Sold 10 per package)



**Set Screws**

A0002 (Sold 10 per package)



**Thermoplastic Screws**

for use with all 18 Series plugs

A0010 (Sold 10 per package)



## 18 Series Ball Nose Device Ordering Information

## CAM-TYPE PLUGS

|                                                                                              |        | Single Set Screw Termination  |             | Double Set Screw Termination  |             |
|----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                              |        | Male Plug                                                                                                      | Female Plug | Male Plug                                                                                                        | Female Plug |
| Cable Size: #2 - 2/0<br>Max Ampacity: 300 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 18D21-UW                                                                                                       | 18D29-UW    | 18D22-UW                                                                                                         | 18D31-UW    |
|                                                                                              | Black  | 18D21-UE                                                                                                       | 18D29-UE    | 18D22-UE                                                                                                         | 18D31-UE    |
|                                                                                              | Brown  | —                                                                                                              | —           | 18D22-UH                                                                                                         | —           |
|                                                                                              | Red    | 18D21-UR                                                                                                       | 18D29-UR    | 18D22-UR                                                                                                         | 18D31-UR    |
|                                                                                              | Blue   | 18D21-UB                                                                                                       | 18D29-UB    | 18D22-UB                                                                                                         | 18D31-UB    |
|                                                                                              | Orange | —                                                                                                              | —           | 18D22-UO                                                                                                         | —           |
|                                                                                              | Green  | 18D21-UG                                                                                                       | 18D29-UG    | 18D22-UG                                                                                                         | 18D31-UG    |
|                                                                                              | Yellow | —                                                                                                              | —           | 18D22-UY                                                                                                         | —           |

|                                                                                               |        | Single Set Screw Termination  |             | Double Set Screw Termination  |             |
|-----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                               |        | Male Plug                                                                                                      | Female Plug | Male Plug                                                                                                        | Female Plug |
| Cable Size: 2/0 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | —                                                                                                              | —           | 18D24-UW                                                                                                         | 18D33-UW    |
|                                                                                               | Black  | 18D23-UE                                                                                                       | 18D32-UE    | 18D24-UE                                                                                                         | 18D33-UE    |
|                                                                                               | Brown  | —                                                                                                              | 18D32-UH    | 18D24-UH                                                                                                         | 18D33-UH    |
|                                                                                               | Red    | 18D23-UR                                                                                                       | —           | 18D24-UR                                                                                                         | 18D33-UR    |
|                                                                                               | Blue   | —                                                                                                              | —           | 18D24-UB                                                                                                         | 18D33-UB    |
|                                                                                               | Orange | —                                                                                                              | 18D32-UO    | 18D24-UO                                                                                                         | 18D33-UO    |
|                                                                                               | Green  | —                                                                                                              | —           | 18D24-UG                                                                                                         | 18D33-UG    |
|                                                                                               | Yellow | —                                                                                                              | 18D32-UY    | 18D24-UY                                                                                                         | 18D33-UY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

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

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

## 18 Series Ball Nose Device Ordering Information

### FEMALE TERMINAL CONNECTORS

|                                                                    |        | Bus Bar Mount* |          |
|--------------------------------------------------------------------|--------|----------------|----------|
|                                                                    |        | Angle          | Offset   |
| Cable Size: #2 - 4/0<br>Max Ampacity: 400 A<br>Voltage: 600 VAC/DC | White  | 18F21-UW       | 18F22-UW |
|                                                                    | Black  | 18F21-UE       | 18F22-UE |
|                                                                    | Brown  | —              | —        |
|                                                                    | Red    | 18F21-UR       | 18F22-UR |
|                                                                    | Blue   | 18F21-UB       | 18F22-UB |
|                                                                    | Orange | —              | —        |
|                                                                    | Green  | 18F21-UG       | 18F22-UG |
|                                                                    | Yellow | —              | —        |

NOTE: \* 18F21 and 18F22 are not UL/CSA Listed

### COVERS

|                                                          |        | Caps     |          |
|----------------------------------------------------------|--------|----------|----------|
|                                                          |        | Male     | Female   |
| For Use With All<br>18 Series Panel Mount<br>Receptacles | 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-UO | 18P22-UO |
|                                                          | Green  | 18P21-UG | 18P22-UG |
|                                                          | Yellow | 18P21-UY | 18P22-UY |

### CAM-TYPE ADAPTERS

|                                                                      |        | Paralleling Tee  | Tapping Tee  |
|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                      |        | F-M-M                                                                                               | F-F-M                                                                                            |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | 18A21-UW                                                                                            | 18A22-UW                                                                                         |
|                                                                      | Black  | 18A21-UE                                                                                            | 18A22-UE                                                                                         |
|                                                                      | Brown  | —                                                                                                   | —                                                                                                |
|                                                                      | Red    | 18A21-UR                                                                                            | 18A22-UR                                                                                         |
|                                                                      | Blue   | 18A21-UB                                                                                            | 18A22-UB                                                                                         |
|                                                                      | Orange | —                                                                                                   | —                                                                                                |
|                                                                      | Green  | 18A21-UG                                                                                            | 18A22-UG                                                                                         |
|                                                                      | Yellow | —                                                                                                   | —                                                                                                |

|                                                                      |        | 45° 3-Fer  | Double Male  |
|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                      |        | M-F-F-F                                                                                       | M-M                                                                                              |
| Max Ampacity: 400 A<br>Voltage: 600 VAC/DC<br><br>UL/CSA 1691 Listed | White  | —                                                                                             | 18A25-UW                                                                                         |
|                                                                      | Black  | —                                                                                             | —                                                                                                |
|                                                                      | Brown  | —                                                                                             | —                                                                                                |
|                                                                      | Red    | —                                                                                             | —                                                                                                |
|                                                                      | Blue   | —                                                                                             | 18A25-UB                                                                                         |
|                                                                      | Orange | —                                                                                             | —                                                                                                |
|                                                                      | Green  | 18A23-UG                                                                                      | —                                                                                                |
|                                                                      | Yellow | —                                                                                             | —                                                                                                |

17, 22 and 23 Series Cam-Type Plugs  
Features and Benefits

Made from thermoplastic elastomer (TPV – Santoprene), which eliminates the need to vulcanize

Color-coded insulating sleeves for easy phase identification

UL  SP   
17 Series  
UL listed to 1691  
(except RSW)

Santoprene (TPV) provides superior visual appearance and resistance to UV degradation

Double Set screw termination for plugs for easy installation

17 Series devices feature 50kA SCCR rating  
Operational temperature: -40 °F to 185 °F (-40 °C to 85 °C)

Thermoplastic screw makes sleeve detachable when needed

Special latching mechanism provides resistance to vibration

Crimp Tube termination for plugs



17/22/23 Series Plugs

| Plug Component | Material                                   |
|----------------|--------------------------------------------|
| Sleeve         | Thermoplastic Elastomer (TPV - Santoprene) |
| Contact        | Brass                                      |
| Strain Relief  | Copper Shim and Wire                       |

## 17 Series Taper Nose Devices - 600 A, 600 V Max Plugs with 350 to 500 MCM Cable Range

**Male Plug -  
Double Set Screw Termination**  
(17D22-SE Shown)



**Female Plug -  
Double Set Screw Termination**  
(17D24-SE Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |

## Receptacles with 250 to 500 MCM Cable Range

**Male Panel Mount  
Receptacle - 30°  
1" L Threaded Stud  
Termination**  
(17R23-SE Shown)



**Female Panel Mount  
Receptacle - 30°  
1.125" L Threaded  
Stud Termination**  
(17R24-SO Shown)



**Female Panel Mount Receptacle -  
Threaded Stud Termination with  
Microswitch**  
(17RSW-SR Shown)



## 17 Series Accessories

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



17CLF for Male Plug



**Copper Shims**  
A0017 (Sold 10 per package)



**Male Protective Cap**  
For use with Male Receptacles  
(17P21-O Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(17P22-H Shown)



## 17 Series Taper Nose Device Ordering Information

## CAM-TYPE PLUGS

| Double Set Screw Termination   |        |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------|
|                                                                                                                                                                                                      |        | Male Plug | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V<br><br>UL/CSA 1691 Listed                                                                                                           | White  | 17D22-SW  | 17D24-SW    |
|                                                                                                                                                                                                      | Black  | 17D22-SE  | 17D24-SE    |
|                                                                                                                                                                                                      | Brown  | 17D22-SH  | 17D24-SH    |
|                                                                                                                                                                                                      | Red    | 17D22-SR  | 17D24-SR    |
|                                                                                                                                                                                                      | Blue   | 17D22-SB  | 17D24-SB    |
|                                                                                                                                                                                                      | Orange | 17D22-SO  | 17D24-SO    |
|                                                                                                                                                                                                      | Green  | 17D22-SG  | 17D24-SG    |
|                                                                                                                                                                                                      | Yellow | 17D22-SY  | 17D24-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

| Threaded Stud Termination                                                                  |        |                                                                                                                                                                                          |                                                                                                                                                                                                 |                |
|--------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                            |        | 1.00"L, Male, 30°<br>  | 1.125"L, Female, 30°<br>  | w/microswitch* |
| Cable Size: 250-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V<br><br>UL/CSA 1691 Listed | White  | 17R23-SW                                                                                                                                                                                 | 17R24-SW                                                                                                                                                                                        | 17RSW-SW       |
|                                                                                            | Black  | 17R23-SE                                                                                                                                                                                 | 17R24-SE                                                                                                                                                                                        | 17RSW-SE       |
|                                                                                            | Brown  | 17R23-SH                                                                                                                                                                                 | 17R24-SH                                                                                                                                                                                        | 17RSW-SH       |
|                                                                                            | Red    | 17R23-SR                                                                                                                                                                                 | 17R24-SR                                                                                                                                                                                        | 17RSW-SR       |
|                                                                                            | Blue   | 17R23-SB                                                                                                                                                                                 | 17R24-SB                                                                                                                                                                                        | 17RSW-SB       |
|                                                                                            | Orange | 17R23-SO                                                                                                                                                                                 | 17R24-SO                                                                                                                                                                                        | 17RSW-SO       |
|                                                                                            | Green  | 17R23-SG                                                                                                                                                                                 | 17R24-SG                                                                                                                                                                                        | 17RSW-SG       |
|                                                                                            | Yellow | 17R23-SY                                                                                                                                                                                 | 17R24-SY                                                                                                                                                                                        | 17RSW-SY       |

NOTE: \*17RSW is not UL/CSA 1691 Listed

## CAPS

| Caps                                                     |        |         |         |
|----------------------------------------------------------|--------|---------|---------|
|                                                          |        | Male    | Female  |
| For Use With All<br>17 Series Panel Mount<br>Receptacles | White  | 17P21-W | 17P22-W |
|                                                          | Black  | 17P21-E | 17P22-E |
|                                                          | Brown  | 17P21-H | 17P22-H |
|                                                          | Red    | 17P21-R | 17P22-R |
|                                                          | Blue   | 17P21-B | 17P22-B |
|                                                          | Orange | 17P21-O | 17P22-O |
|                                                          | Green  | 17P21-G | 17P22-G |
|                                                          | Yellow | 17P21-Y | 17P22-Y |

## 22 Series Latching Ball Nose Devices - 690 A, 600 V Max Plugs with 350 to 750 MCM Cable Range

**Male Plug -  
Crimp Tube Termination**  
(22L22-SE Shown)



**Female Plug -  
Crimp Tube Termination**  
(22L25-SR Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |
| 750 MCM    | 690          |
| 777 MCM    | 690          |

**Male Plug - Crimp Tube Termination**  
(22L23-SE Shown)



**Female Plug - Crimp Tube Termination**  
(22L26-SE Shown)



## Receptacles with 250 to 777 MCM Cable Range

**Male Panel Mount  
Receptacle - 30°  
1" L Threaded Stud**  
(22R23-SO Shown)



**Female Panel Mount  
Receptacle - 30°  
1" L Threaded Stud**  
(22R24-SO Shown)



## 22 Series Accessories

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



17CLF for Male Plug



**Male Protective Cap**  
For use with Male Receptacles  
(22P21-E Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(22P22-E Shown)



## 22 Series Latching Ball Nose Device Ordering Information

## CAM-TYPE PLUGS

|                                                                  |        | Crimp Tube Termination |             |
|------------------------------------------------------------------|--------|------------------------|-------------|
|                                                                  |        | Male Plug              | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V | White  | 22L22-SW*              | 22L25-SW    |
|                                                                  | Black  | 22L22-SE*              | 22L25-SE    |
|                                                                  | Brown  | 22L22-SH               | 22L25-SH    |
|                                                                  | Red    | 22L22-SR*              | 22L25-SR    |
|                                                                  | Blue   | 22L22-SB               | 22L25-SB    |
|                                                                  | Orange | 22L22-SO               | 22L25-SO    |
|                                                                  | Green  | 22L22-SG               | 22L25-SG    |
|                                                                  | Yellow | 22L22-SY               | 22L25-SY    |

NOTE: \*Contact available without silver plating

|                                                                  |        | Crimp Tube Termination |             |
|------------------------------------------------------------------|--------|------------------------|-------------|
|                                                                  |        | Male Plug              | Female Plug |
| Cable Size: 500-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 22L23-SW               | 22L26-SW    |
|                                                                  | Black  | 22L23-SE               | 22L26-SE    |
|                                                                  | Brown  | 22L23-SH               | 22L26-SH    |
|                                                                  | Red    | 22L23-SR               | 22L26-SR    |
|                                                                  | Blue   | 22L23-SB               | 22L26-SB    |
|                                                                  | Orange | 22L23-SO               | 22L26-SO    |
|                                                                  | Green  | 22L23-SG               | 22L26-SG    |
|                                                                  | Yellow | 22L23-SY               | 22L26-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

|                                                                  |        | 1.00"L Threaded Stud Termination |           |             |
|------------------------------------------------------------------|--------|----------------------------------|-----------|-------------|
|                                                                  |        | Female, 15°                      | Male, 30° | Female, 30° |
| Cable Size: 250-777 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 22R26-W                          | 22R23-SW  | 22R24-SW    |
|                                                                  | Black  | 22R26-E                          | 22R23-SE  | 22R24-SE    |
|                                                                  | Brown  | —                                | 22R23-SH  | 22R24-SH    |
|                                                                  | Red    | 22R26-R                          | 22R23-SR  | 22R24-SR    |
|                                                                  | Blue   | —                                | 22R23-SB  | 22R24-SB    |
|                                                                  | Orange | —                                | 22R23-SO  | 22R24-SO    |
|                                                                  | Green  | 22R26-G                          | 22R23-SG  | 22R24-SG    |
|                                                                  | Yellow | —                                | 22R23-SY  | 22R24-SY    |

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

|                                                                  |       |         |
|------------------------------------------------------------------|-------|---------|
| Cable Size: 250-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White | 22R28-W |
|                                                                  | Black | 22R28-E |
|                                                                  | Red   | 22R28-R |
|                                                                  | Green | 22R28-G |

## COVERS

|                                                          |       | Caps    |         |
|----------------------------------------------------------|-------|---------|---------|
|                                                          |       | Male    | Female  |
| For Use With All<br>22 Series Panel Mount<br>Receptacles | White | 22P21-W | 22P22-W |
|                                                          | Black | 22P21-E | 22P22-E |
|                                                          | Red   | 22P21-R | 22P22-R |

## 23 Series Latching Taper Nose Plugs - 690 A, 600 V Max Plugs with 350 to 750 MCM Cable Range

**Male Plug -  
Latching Taper Nose,  
Crimp Tube Termination**  
(23L22-SE Shown)



**Female Plug -  
Latching Taper Nose,  
Crimp Tube Termination**  
(23L25-SE Shown)



### AMPACITY TABLE

| Cable Size | Max Ampacity |
|------------|--------------|
| 250 MCM    | 445          |
| 350 MCM    | 500          |
| 500 MCM    | 600          |
| 750 MCM    | 690          |
| 777 MCM    | 690          |

## Receptacles with 250 to 777 MCM Cable Range

**Male Panel Receptacle -  
30° Tapered Nose, 1.125"L Threaded Stud**  
(23R23-SE Shown)



**Female Panel Receptacle -  
30° Tapered Nose, 1.125"L Threaded Stud**  
(23R24-SH Shown)



## 23 Series Accessories

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



17CLF for Male Plug



**Male Protective Cap**  
For use with Male Receptacles  
(17P21-O Shown)



**Female Protective Cap**  
For use with Female Receptacles  
(17P22-H Shown)



## 23 Series Latching Taper Nose Device Ordering Information

## CAM-TYPE PLUGS

| Crimp Tube Termination                                           |        |           |             |
|------------------------------------------------------------------|--------|-----------|-------------|
|                                                                  |        | Male Plug | Female Plug |
| Cable Size: 350-500 MCM<br>Max Ampacity: 600 A<br>Voltage: 600 V | White  | 23L22-SW  | 23L25-SW    |
|                                                                  | Black  | 23L22-SE  | 23L25-SE    |
|                                                                  | Brown  | 23L22-SH  | 23L25-SH    |
|                                                                  | Red    | 23L22-SR  | 23L25-SR    |
|                                                                  | Blue   | 23L22-SB  | 23L25-SB    |
|                                                                  | Orange | 23L22-SO  | 23L25-SO    |
|                                                                  | Green  | 23L22-SG  | 23L25-SG    |
|                                                                  | Yellow | 23L22-SY  | 23L25-SY    |

| Crimp Tube Termination                                           |        |           |             |
|------------------------------------------------------------------|--------|-----------|-------------|
|                                                                  |        | Male Plug | Female Plug |
| Cable Size: 500-750 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 23L23-SW  | 23L26-SW    |
|                                                                  | Black  | 23L23-SE  | 23L26-SE    |
|                                                                  | Brown  | 23L23-SH  | 23L26-SH    |
|                                                                  | Red    | 23L23-SR  | 23L26-SR    |
|                                                                  | Blue   | 23L23-SB  | 23L26-SB    |
|                                                                  | Orange | 23L23-SO  | 23L26-SO    |
|                                                                  | Green  | 23L23-SG  | 23L26-SG    |
|                                                                  | Yellow | 23L23-SY  | 23L26-SY    |

## CAM-TYPE PANEL MOUNT RECEPTACLES

| Threaded Stud Termination                                        |        |                   |                      |
|------------------------------------------------------------------|--------|-------------------|----------------------|
|                                                                  |        | 1.00"L, Male, 30° | 1.125"L, Female, 30° |
| Cable Size: 250-777 MCM<br>Max Ampacity: 690 A<br>Voltage: 600 V | White  | 23R23-SW          | 23R24-SW             |
|                                                                  | Black  | 23R23-SE          | 23R24-SE             |
|                                                                  | Brown  | 23R23-SH          | 23R24-SH             |
|                                                                  | Red    | 23R23-SR          | 23R24-SR             |
|                                                                  | Blue   | 23R23-SB          | 23R24-SB             |
|                                                                  | Orange | 23R23-SO          | 23R24-SO             |
|                                                                  | Green  | 23R23-SG          | 23R24-SG             |
|                                                                  | Yellow | 23R23-SY          | 23R24-SY             |

## CAPS

| Caps                                                     |        |         |         |
|----------------------------------------------------------|--------|---------|---------|
|                                                          |        | Male    | Female  |
| For Use With All<br>23 Series Panel Mount<br>Receptacles | White  | 17P21-W | 17P22-W |
|                                                          | Black  | 17P21-E | 17P22-E |
|                                                          | Brown  | 17P21-H | 17P22-H |
|                                                          | Red    | 17P21-R | 17P22-R |
|                                                          | Blue   | 17P21-B | 17P22-B |
|                                                          | Orange | 17P21-O | 17P22-O |
|                                                          | Green  | 17P21-G | 17P22-G |
|                                                          | Yellow | 17P21-Y | 17P22-Y |

## 49 Series Male and Female Plugs, 1135 A Max

These devices are suitable for high-amperage AC or DC loads.

Typical uses are for power delivery on off-shore and land-based oil and gas rigs. 49 Series devices are used by SCR drive manufacturers and top drive manufacturers to distribute power from the SCR to mud pumps and top drives.



## 49 Series Male and Female Plugs, 1135 A Max Features and Benefits

Color-coded connector insulator for quick, visual identification of circuit and phase connections. Available colors include: Black, White, Red, Blue, Green, Yellow, Orange, Purple<sup>1</sup>, Gray<sup>1</sup> and Brown<sup>\*\*</sup>



UV stable, high-performance TPV insulator resists fading and cracking for greater service life

Ideal for replacement; plugs mate with other manufacturers' high-amperage single pole plugs and receptacles for fast, easy change-out

49M77-E Shown

49F77-E Shown

TPV dust cap protects contacts when disconnected

Contacts offered by cable size for the most secure connection. Each contact is designed for a specific cable size ranging from 313 MCM through 777 MCM

Contacts machined from a high conductivity copper alloy and silver-plated for corrosion resistance and superior conductivity

## Coupler

Color-coded, metal in-line coupler prevents separation of connectors and identifies phase

49COP-E Shown

## 49 Series Device Ordering Information

### MALE PLUGS\*

| Max Ampacity<br>Conductor Size | 636A<br>313 MCM | 796A<br>444 MCM | 898A<br>535 MCM | 1009A<br>646 MCM | 1135A<br>777 MCM | Replacement<br>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-O         | 49M44-O         | 49M53-O         | 49M64-O          | 49M77-O          | 49MSL-O               |
| 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                         | —               | 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          | —                     |

NOTE: \*Includes 49DSM Dust Cap.

### FEMALE PLUGS\*\*

| Max Ampacity<br>Conductor Size | 636A<br>313 MCM | 796A<br>444 MCM | 898A<br>535 MCM | 1009A<br>646 MCM | 1135A<br>777 MCM | Replacement<br>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-O         | 49F44-O         | 49F53-O         | 49F64-O          | 49F77-O          | 49FSL-O               |
| 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                         | —               | —               | 49F53-P         | —                | 49F77-P          | 49FSL-P               |
| Gray                           | —               | 49F44-GY        | 49F53-GY        | 49F64-GY         | 49F77-GY         | 49FSL-GY              |
| Replacement Contact            | 49F31-C         | 49F44-C         | 49F53-C         | 49F64-C          | 49F77-C          | —                     |

NOTE: \*\*Includes 49DSF Dust Cap.

### 49 Series Panel Mounted Receptacles, 1135 A Max Features and Benefits

Ideal for replacement; receptacles mate with other manufacturers' high-amperage single pole plugs for fast, easy change-out

The high-performance TPV bus bar insulator resists cracking for greater service life

Cast aluminum powder-coated receptacle housing is color-coded for quick visual identification of circuit and phase connections

49FR1-XR Shown

Captive stainless steel clevis bracket

"X" version receptacle housings feature a 45° angle stainless steel clevis pin that permits ganging of multiple receptacles in very close proximity to each other (as close as 1/4") for installation on smaller panels

Receptacles deliver up to 1,135 Amps continuous duty

Detent pin allows clevis pin to stay secure in either open or closed position

TPV cap prevents contamination when receptacle is not in use

Stainless steel clevis bracket accepts industry standard lockout

#### Complete Receptacles Include:

- Housing Assembly
- Contact Assembly
- Clevis Pin
- Dust Cap
- Locking Pin (X Version Only)



Color-coding the devices minimizes errors due to miswiring, and saves time during assembly and trouble-shooting, especially on dusty and dirty oil rigs

## 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 |
| <b>Receptacle Spacing:</b><br>1/4" Horizontally,<br>3-1/4" Vertically<br><br><b>Cable Size: 313-777 MCM</b><br><b>Max Ampacity: 1135 A</b><br><b>Voltage: 1000 V</b>             | White  | 49MR1-CW                 | 49MR2-CW            | 49FR1-CW                   | 49FR2-CW            |
|                                                                                                                                                                                  | Black  | 49MR1-CE                 | 49MR2-CE            | 49FR1-CE                   | 49FR2-CE            |
|                                                                                                                                                                                  | Brown  | 49MR1-CH                 | 49MR2-CH            | 49FR1-CH                   | 49FR2-CH            |
|                                                                                                                                                                                  | Red    | 49MR1-CR                 | 49MR2-CR            | 49FR1-CR                   | 49FR2-CR            |
|                                                                                                                                                                                  | Blue   | 49MR1-CB                 | 49MR2-CB            | 49FR1-CB                   | 49FR2-CB            |
|                                                                                                                                                                                  | Orange | 49MR1-CO                 | 49MR2-CO            | 49FR1-CO                   | 49FR2-CO            |
|                                                                                                                                                                                  | 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 Female Receptacle |                     |
|                                                                                                                                                                                  |        | Single Hole Bus Bar      | Double Hole Bus Bar | Single Hole Bus Bar        | Double Hole Bus Bar |
| <b>Receptacle Spacing:</b><br>1/4" Horizontally and Vertically,<br>45° Clevis Pin<br><br><b>Cable Size: 313-777 MCM</b><br><b>Max Ampacity: 1135 A</b><br><b>Voltage: 1000 V</b> | 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            |
|                                                                                                                                                                                  | Red    | 49MR1-XR                 | 49MR2-XR            | 49FR1-XR                   | 49FR2-XR            |
|                                                                                                                                                                                  | Blue   | 49MR1-XB                 | 49MR2-XB            | 49FR1-XB                   | 49FR2-XB            |
|                                                                                                                                                                                  | Orange | 49MR1-XO                 | 49MR2-XO            | 49FR1-XO                   | 49FR2-XO            |
|                                                                                                                                                                                  | 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           |

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

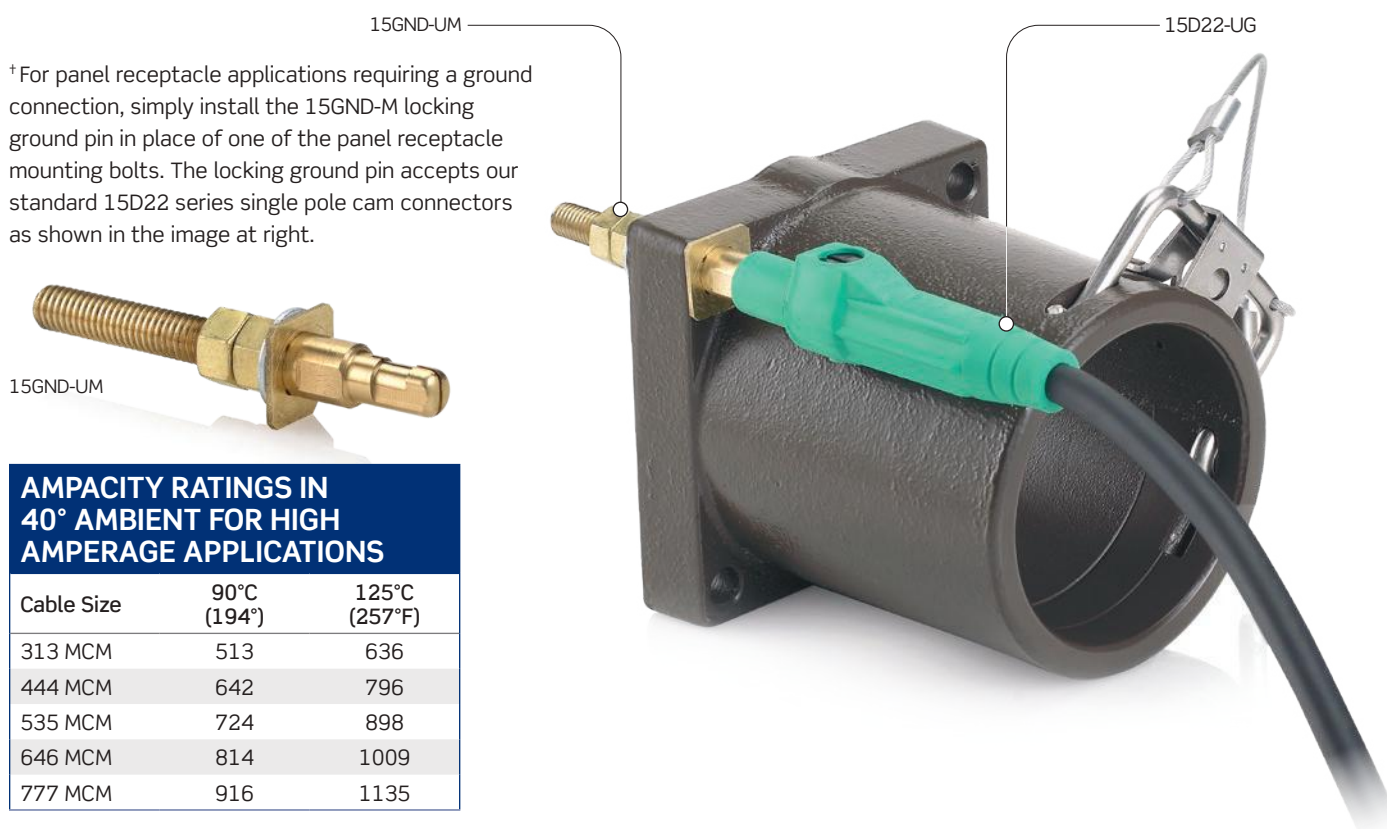
## 49 Series Device Ordering Information

## ACCESSORIES AND REPLACEMENT PARTS

|                               | Description                                  | Color  | Material               | Cat. No.   |
|-------------------------------|----------------------------------------------|--------|------------------------|------------|
| For Plugs                     | Clevis Pin for In-Line Connector Coupler     | Silver | Stainless Steel        | 49PNR-KIT* |
|                               | 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    |
|                               | In-line Coupler                              | Brown  | Powder-coated aluminum | 49COP-H    |
|                               | 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-O    |
|                               | In-line Coupler                              | Green  | Powder-coated aluminum | 49COP-G    |
|                               | In-line Coupler                              | Gray   | Powder-coated aluminum | 49COP-GY   |
|                               | In-line Coupler                              | Yellow | Powder-coated aluminum | 49COP-Y    |
|                               | In-line Coupler                              | Purple | Powder-coated aluminum | 49COP-P    |
|                               | In-line Coupler                              | Silver | Unpainted aluminum     | 49COP      |
| For Panel Mounted Receptacles | Clevis Pin for Panel Mount Receptacle        | Silver | Stainless Steel        | 49PNR-KIT* |
|                               | Dust Cover Cap for Male or Female Receptacle | Black  | High-Performance TPV   | 49DSR      |
|                               | Receptacle Housing Gasket                    | Black  | Rubber                 | 49GAS      |
|                               | Locking Ground Pin                           | —      | Brass                  | 15GND-UM   |
|                               | Locking Ground Plug (Female)                 | Green  | TPV/Brass              | 15D22-UG   |
|                               | Casting for Male or Female Receptacles       | Silver | Aluminum               | 49CSR      |

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

\* Does not fit "X" Version.



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\* Plugs and connectors need caps attached in order to achieve IP69K rating



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Q-666M