

Single Pole Devices

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

rhino-hide®









Single Pole Cam Devices



rhino-hide® Single Pole Cam-Type Devices

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

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







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

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









Single Pole Cam Devices



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





17D21-B







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

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







Single Pole High Amperage Devices



rhino-hide® 49 Series Single Pole High Amperage Devices

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

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

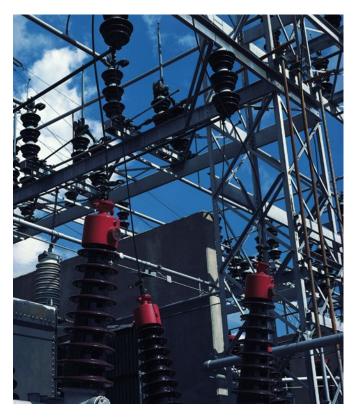






Single Pole High Amperage Devices

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











49MR1-XR

Cam-Type Devices for Commercial and Industrial Use

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

Common Applications

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

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

Features and Benefits

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

Experience the Difference

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





Cam-Type Plugs Features and Benefits



CAM-TYPE PLUGS

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

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

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

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



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



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



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



Male Panel Receptacle (15R21-UR Shown)



Female Panel Receptacle (15R22-UH Shown)





15 Series Device Ordering Information

CAM-TYPE PLUGS

		Single Set Screw	Termination (1) (8)
		Male Plug	Female Plug
	White	15D21-UW	15D22-UW
	Black	15D21-UE	15D22-UE
Cable Size: #8 - #2	Brown	15D21-UH	15D22-UH
Max Ampacity: 150A	Red	15D21-UR	15D22-UR
Voltage: 600V AC/DC	Blue	15D21-UB	15D22-UB
UL/CSA 1691 Listed	Orange	15D21-U0	15D22-U0
	Green	15D21-UG	15D22-UG
	Yellow	15D21-UY	15D22-UY
Replacement Contacts		15D21-UC	15D22-UC
		Crimp Tube Te	ermination ® ®
		Male Plug	Female Plug
	White	15D23-UW	15D24-UW
	Black	15D23-UE	15D24-UE
Cable Size: #8 - #4	Brown	15D23-UH	15D24-UH
Max Ampacity: 140A	Red	15D23-UR	15D24-UR
Voltage: 600V AC/DC	Blue	15D23-UB	15D24-UB

15D24-U0

15D24-UG

15D24-UY

15D24-UC

15D23-U0

15D23-UG

15D23-UY

15D23-UC

Orange

Green

Yellow

REPLACEMENT SLEEVES

UL/CSA 1691 Listed

Replacement Contacts

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

CAM-TYPE PANEL MOUNT RECEPTACLES

		.5" Threaded Stud Term. ® ®			Stud Term. 🖫 🚱
		Male	Female	Male	Female
	White	15R21-UW	15R22-UW	15R21-1UW	15R22-1UW
	Black	15R21-UE	15R22-UE	15R21-1UE	15R22-1UE
Cable Size: #8 - #2	Brown	15R21-UH	15R22-UH	15R21-1UH	15R22-1UH
Max Ampacity: 150A Voltage: 600V AC/DC	Red	15R21-UR	15R22-UR	15R21-1UR	15R22-1UR
voitage. 000 v AC/DC	Blue	15R21-UB	15R22-UB	15R21-1UB	15R22-1UB
UL/CSA 1691 Listed	Orange	15R21-U0	15R22-U0	15R21-1U0	15R22-1U0
	Green	15R21-UG	15R22-UG	15R21-1UG	15R22-1UG
	Yellow	15R21-UY	15R22-UY	15R21-1UY	15R22-1UY

Single Pole Cam Devices

rhino-hide®

Cam-Type

15 Series Device Accessories

"Com-A-Long" Assembly Tools

15CLM-U for Female Plug



15CLF-U for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims

A0006

(Sold 10 per package)



Strain Relief Wire

A0007

(Sold 10 per package)



Set Screws

A0001

(Sold 10 per package)



Plastic Screws

A0011

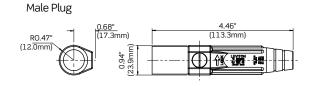
(Sold 10 per package)





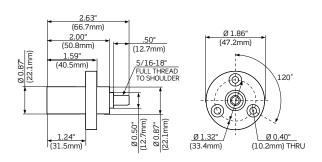
15 Series Device Technical Drawings

DIMENSIONS

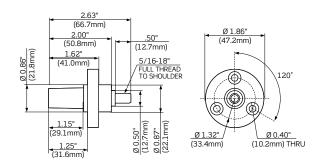


Female Plug R0.47" (12.0mm) (15.0mm) (108.2mm) (108.2mm) (16.8mm)

Male Panel Receptacle



Female Panel Receptacle



AMPACITY TABLE

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

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

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

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



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

(16D22-PC Shown)



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



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



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

(16D31-PC Shown)



Female Plug -



Male Plug - Crimp Tube Termination with Neoprene Sleeve





Female Plug - Crimp Tube Termination with Neoprene Sleeve

(16V26-R Shown)



Male Plug - Flame Retardant for Mining Applications



Female Plug - Flame Retardant for Mining Applications





16 Series Plug Ordering Information

CAM-TYPE PLUGS

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

16 Series Plug Ordering Information

CAM-TYPE PLUGS

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

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

REPLACEMENT SLEEVES (TPV)

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



16 Series Plug Ordering Information

CAM-TYPE PLUGS

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

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

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



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



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



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



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



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



Female Terminal Connector - Angle Style (16F21-UB Shown)



Male Protective Cap (16P21-UO Shown)



Female Protective Cap (16P22-UO Shown)







16 Series Receptacle Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLE

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

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

16R20-UY

16R19-UY

Yellow

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

16 Series Receptacle Ordering Information

TERMINAL CONNECTORS

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

COVERS

	Enclosure	Caj	ps
	Male/Female	Male	Female
White	16S31-UW	16P21-UW	16P22-UW
Black	16S31-UE	16P21-UE	16P22-UE
Brown	16S31-UH	16P21-UH	16P22-UH
Red	16S31-UR	16P21-UR	16P22-UR
Blue	16S31-UB	16P21-UB	16P22-UB
Orange	16S31-U0	16P21-U0	16P22-U0
Green	16S31-UG	16P21-UG	16P22-UG
Yellow	16S31-UY	16P21-UY	16P21-UY
Clear	16S31-UCL		_





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

Assembled Parallelling Tee (16A31-UE Shown)

Assembled 3-Fer (16A33-UB Shown)



Assembled Tapping Tee



Assembled Reverse 3-Fer



Double Male





Double Female (16A24-UB Shown)



Paralleling Tee (16A21-UY Shown)



Tapping Tee (16A22-UE Shown)



3-Fer (16A23-UB Shown)



Reversed 3-Fer (16A26-UG Shown)



16 Series Adapter Ordering Information

CAM-TYPE ADAPTERS (1) (6).

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





16 Series Device Accessories

"Com-A-Long" Assembly Tools





Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims

A0004 (Sold 10 per package)



Strain Relief Wire

A0003 (Sold 10 per package)



Set Screws

A0002 (Sold 10 per package)



Plastic Screws

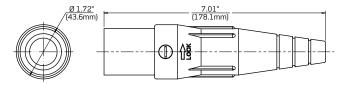
A0010 (Sold 10 per package)



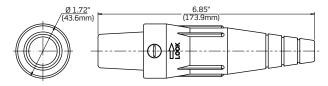
16 Series Device Technical Drawings

DIMENSIONS

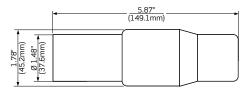
Male Detachable Plug



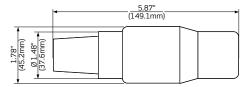
Female Detachable Plug



Male Vulcanized Plug

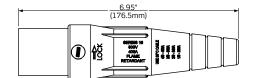


Female Vulcanized Plug



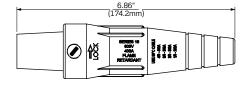
Male Detachable Plug - Flame Retardant

(43.6mm)

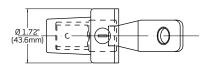


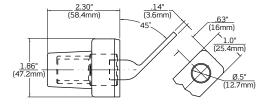
Female Detachable Plug - Flame Retardant



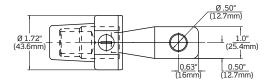


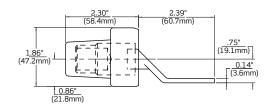
16F21 Female Terminal Connector



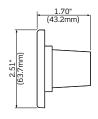


16F22 Female Terminal Connector

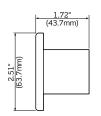




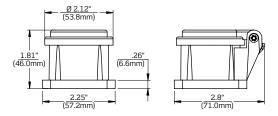
Male Protective Cap



Female Protective Cap



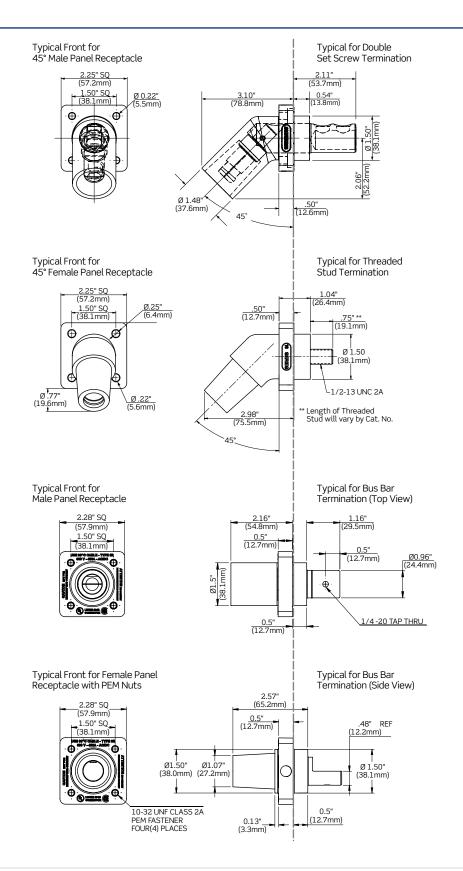
Enclosure for Male and Female Panel Receptacles





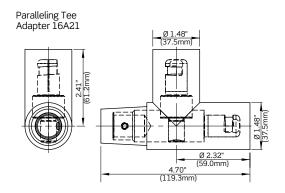
16 Series Device Technical Drawings

DIMENSIONS

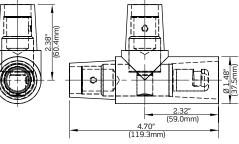


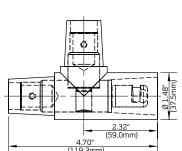
16 Series Device Technical Drawings

DIMENSIONS



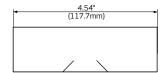
Tapping Tee Adapter 16A22





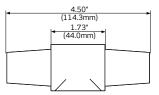
Double Male Adapter 16A25



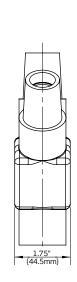


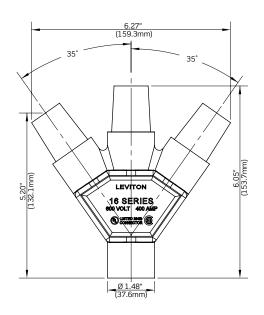
Double Female Adapter 16A24



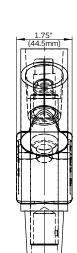


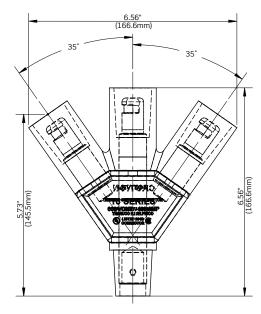
3-Fer Adapter 16A23





Reverse 3-Fer Adapter 16A26

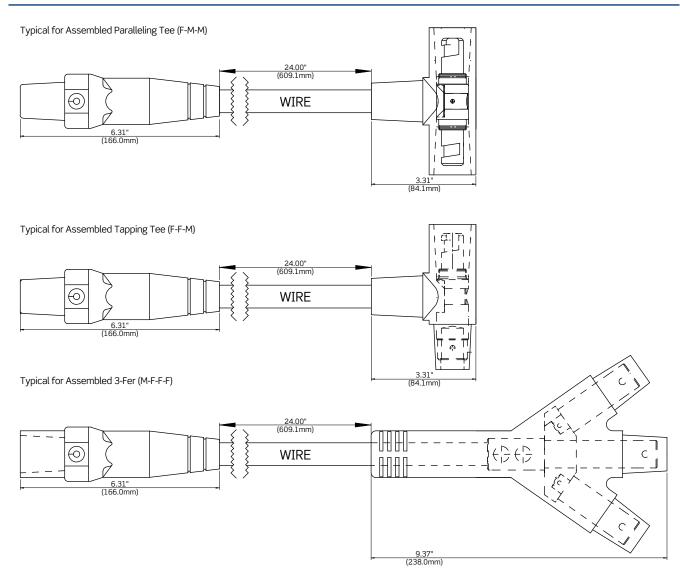






16 Series Device Technical Drawings

DIMENSIONS



AMPACITY TABLE

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

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

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

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



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



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



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



Male Panel Mount Receptacle - 75" Threaded Stud

(18R21-UB Shown)



Female Panel Mount Receptacle - Double Set Screw

(18R24-UG Shown)



Male Panel Mount Receptacle - Double Set Screw

(18R23-UH Shown)



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



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





18 Series Devices



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

Paralleling Tee Adapter (18A21-UE Shown)



Double Female Adapter (18A24-UE Shown)



Tapping Tee Adapter (18A22-U0 Shown)



Double Male Adapter (18A25-UR Shown)



3-Fer (MFFF) Adapter





18 Series Device Ordering Information

CAM-TYPE PLUGS

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

CAM-TYPE PANEL MOUNT RECEPTACLES

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

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



18 Series Device Ordering Information

FEMALE TERMINAL CONNECTORS

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

COVERS

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

CAM-TYPE ADAPTERS

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

Single Pole Cam Devices

rhino-hide®

Cam-Type

18 Series Accessories

"Com-A-Long" Assembly Tools

16CLM-U for Female Plug





Lubricating Spray C0001 for 16 Fl. Oz. Can



Copper Shims A0004 (Sold 10 per package)



Strain Relief Wire A0003 (Sold 10 per package)



Set Screws A0002 (Sold 10 per package)



Plastic Screws A0010 (Sold 10 per package)

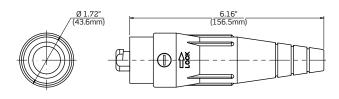




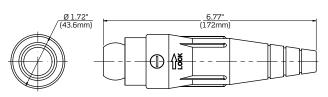
18 Series Device Technical Drawings

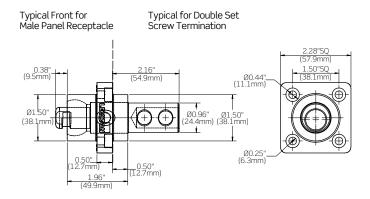
DIMENSIONS

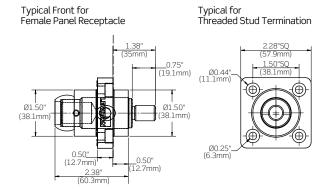
Male Detachable Plug



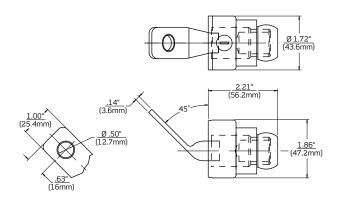
Female Detachable Plug



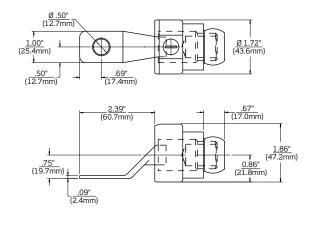




18F21 Female Terminal Connector - Bus Bar Mount, Angled



18F22 Female Terminal Connector - Bus Bar Mount, Offset







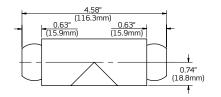
18P22 Female

18 Series Device Technical Drawings

DIMENSIONS

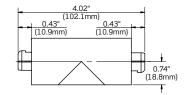
18A25 Double Male Adapter



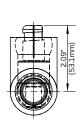


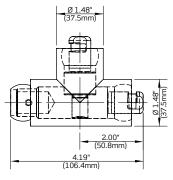
18A24 Double Female Adapter



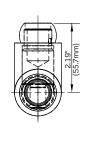


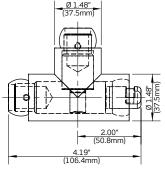
Paralleling Tee Adapter



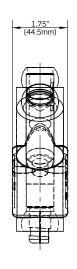


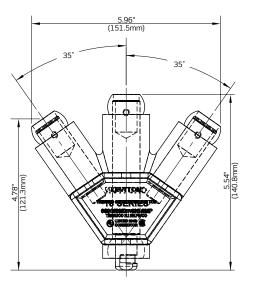
Tapping Tee Adapter





3-Fer Adapter





AMPACITY TABLE

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

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



Industrial Grade

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

Male Plug - Double Set Screw Termination



Female Plug - Double Set Screw Termination



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



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



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



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



NEMA 3R Enclosure



Single Pole Cam Devices

rhino-hide®

Industrial Grade

17 Series Devices





17 Series Accessories

"Com-A-Long" Assembly Tools





Lubricating Spray C0001 for 16 Fl. Oz. Can





17 Series Device Ordering Information

CAM-TYPE PLUGS

		Double Set Sci	rew Termination	
		Male Plug	Female Plug	
	White	17D22-W	17D24-W	
	Black	17D22-E	17D24-E	
Cable Size: 350-500MCM	Brown	17D22-H	17D24-H	
Max Ampacity: 690A Voltage: 600V	Red	17D22-R	17D24-R	
Neoprene Sleeve	Blue	17D22-B	17D24-B	
Detachable	Orange	17D22-0	17D24-0	
	Green	17D22-G	17D24-G	
	Yellow	17D22-Y	17D24-Y	
		Double Set Sci	rew Termination	
		Male Plug	Female Plug	
	White	17D21-W	17D23-W	
	Black	17D21-E	17D23-E	
Cable Size: 250-350MCM	Brown	17D21-H	17D23-H	
Max Ampacity: 570A	Red	17D21-R	17D23-R	
Voltage: 600V	Blue	17D21-B	17D23-B	
Neoprene Sleeve	Orange	17D21-0	17D23-0	
	Green	17D21-G	17D23-G	
	Yellow	17D21-Y	17D23-Y	
		Crimp Tube	Termination	
		Male Plug	Female Plug	
	White	17V23-W	17V26-W	
	Black	17V23-E	17V26-E	
Cable Size: 500-750MCM	Brown	17V23-H	17V26-H	
Max Ampacity: 690A	Red	17V23-R	17V26-R	
Voltage: 600V	Blue	17V23-B	17V26-B	
Neoprene Sleeve	Orange	17V23-0	17V26-0	
	Green	17V23-G	17V26-G	
	Yellow	17V23-Y	17V26-Y	

CAM-TYPE PANEL MOUNT RECEPTACLES

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

Single Pole Cam Devices



Industrial Grade

17 Series Device Ordering Information

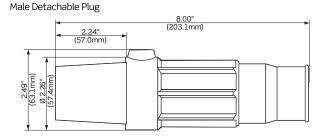
COVERS

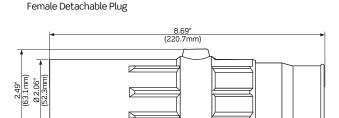
	NEMA 3R Enclosure (9) (6)	Ca	ps
	Male/Female	Male	Female
White	17S31-W	17P21-W	17P22-W
Black	17S31-E	17P21-E	17P22-E
Brown	17S31-H	17P21-H	17P22-H
Red	17S31-R	17P21-R	17P22-R
Blue	17S31-B	17P21-B	17P22-B
Orange	17S31-0	17P21-O	17P22-0
Green	17S31-G	17P21-G	17P22-G
Yellow	17S31-Y	17P21-Y	17P22-Y



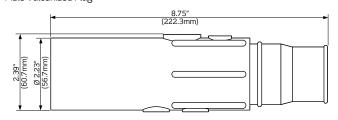
17 Series Technical Drawings

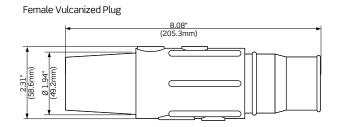
DIMENSIONS



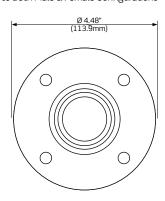


Male Vulcanized Plug

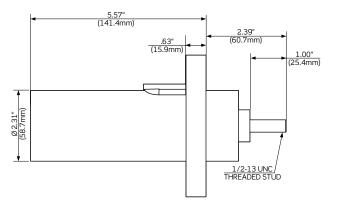




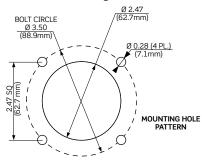
Front View 90° Panel Receptacle - Threaded Stud Common to Both Male & Female Configurations

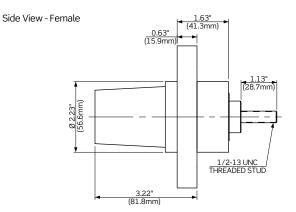


Side View - Male



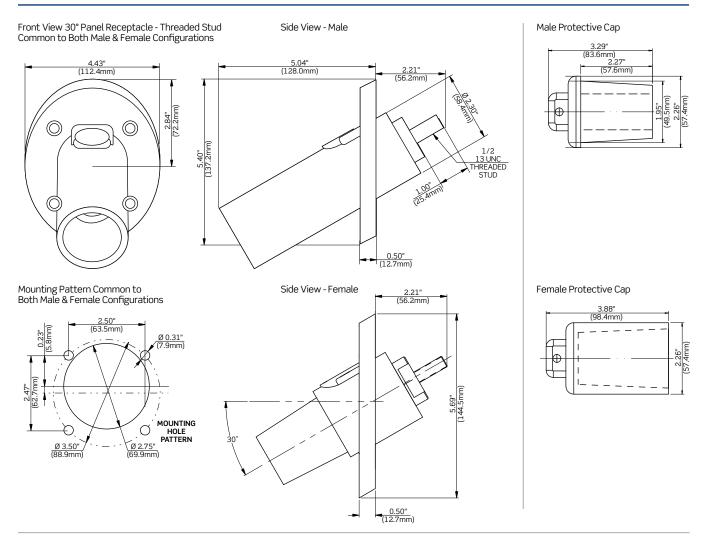
Mounting Pattern Common to Both Male & Female Configurations



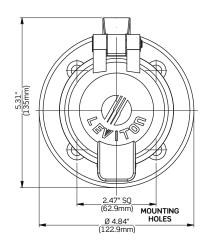


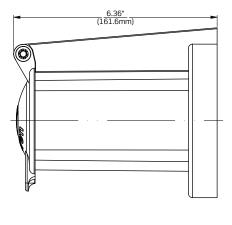
17 Series Technical Drawings

DIMENSIONS



Protective Cover for $90^{\circ}\,17/19$ Series Receptacles





AMPACITY TABLE

Cable Size	Ampacity
250	455
350	570
500	700
750	885

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



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

Male Plug - Double Set Screw Termination

(19D22-G Shown)



Female Plug - Double Set Screw Termination

(19D24-B Shown)



Male Panel Mount Receptacle - 90° Threaded Stud Termination

(19R21-H Shown)



Female Panel Mount Receptacle - 90° Threaded Stud Termination

(19R22-E Shown)



Male Protective Cap

(19P21-R Shown)



Female Protective Cap

(19P22-0 Shown)



19 Series Accessories

"Com-A-Long" Assembly Tools

17CLM for Female Plug



17CLF for Male Plug



Lubricating Spray

C0001 for 16 Fl. Oz. Can



19 Series Device Ordering Information

CAM-TYPE PLUGS

		Double Set Sc Male Plug	rew Termination Female Plug
	White	19D22-W	19D24-W
	Black	19D22-E	19D24-E
	Brown	19D22-H	19D24-H
Cable Size: 350-500MCM	Red	19D22-R	19D24-R
Max Ampacity: 690A Voltage: 600V	Blue	19D22-B	19D24-B
voltage. 000 v	Orange	19D22-0	19D24-0
	Green	19D22-G	19D24-G
	Yellow	19D22-Y	19D24-Y

CAM-TYPE PANEL MOUNT RECEPTACLES

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

COVERS

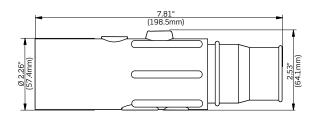
	С	aps	
	Male	Female	
White	19P21-W	19P22-W	
Black	19P21-E	19P22-E	
Brown	19P21-H	19P22-H	
Red	19P21-R	19P22-R	
Blue	19P21-B	19P22-B	
Orange	19P21-O	19P22-0	
Green	19P21-G	19P22-G	
Yellow	19P21-Y	19P22-Y	



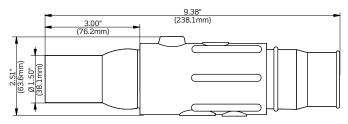
19 Series Technical Drawings

DIMENSIONS

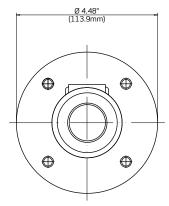
Male Detachable Plug - Double Set Screw



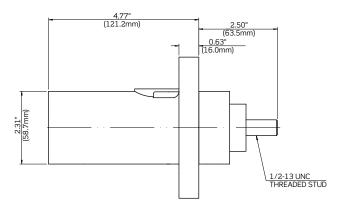
Female Detachable Plug - Double Set Screw



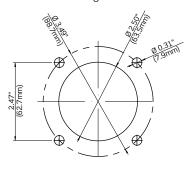
Front View 90° Panel Receptacle Common to Both Male & Female Configurations



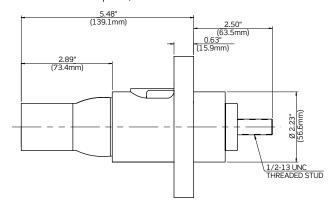
Side View 90° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations



Side View 90° Female Panel Receptacle, Threaded Stud



AMPACITY TABLE

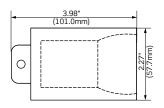
Cable Size	Ampacity
250	455
350	570
500	700
750	885

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

Male Protective Cap

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

Female Protective Cap



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

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



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



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



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





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

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



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

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





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



Male Protective Cap (22P21-E Shown)



Female Protective Cap (22P22-E Shown)



22 Series Accessories

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



17CLF for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



22 Series Device Ordering Information

CAM-TYPE PLUGS

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



22 Series Device Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLES

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

1.00"L Threaded Stud Termination w/microswitch Female, 15° White 22R26-W 22R28-W Cable Size: 250-750MCM Black 22R26-E 22R28-E Max Ampacity: 690A Red 22R26-R 22R28-R Voltage: 600V Green 22R26-G

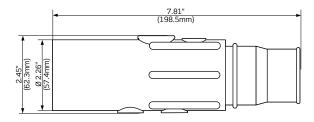
COVERS

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

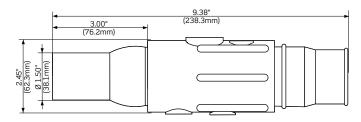
22 Series Device Technical Drawings

DIMENSIONS

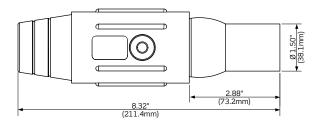
Ball Nose In-line Latching Male Plugs



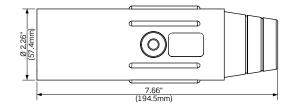
Ball Nose In-line Latching Female Plugs



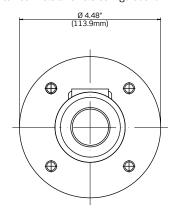
Ball Nose In-line Latching Male Plugs S-Series



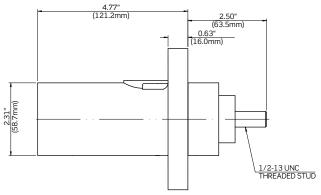
Ball Nose In-line Latching Female Plugs S-Series



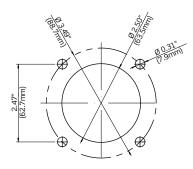
Front View 90° Male Panel Receptacle Common to Both Male & Female Configurations



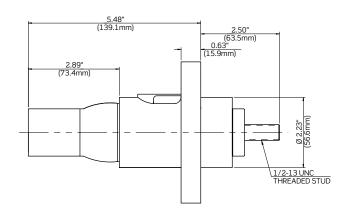
Side View 90° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations



Side View 90° Female Panel Receptacle, Threaded Stud

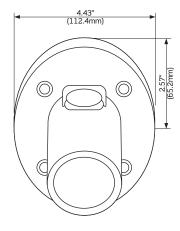


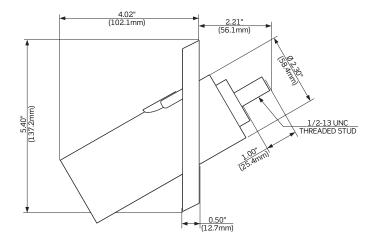


22 Series Device Technical Drawings

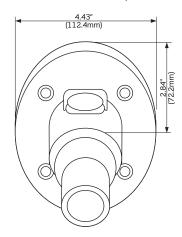
DIMENSIONS

Front View 30° Male Panel Receptacle



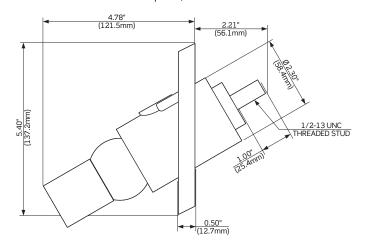


Front View 30° Female Panel Receptacle

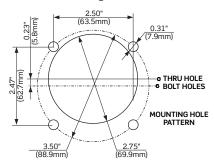


Side View 30° Female Panel Receptacle, Threaded Stud

Side View 30° Male Panel Receptacle, Threaded Stud



Mounting Pattern Common to Both Male & Female Configurations

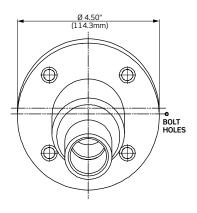


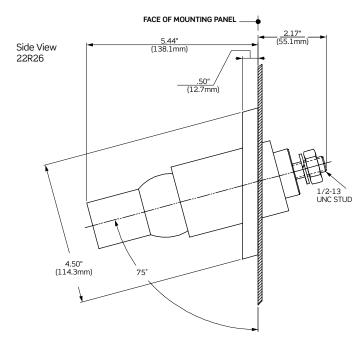
22 Series Device Technical Drawings

DIMENSIONS

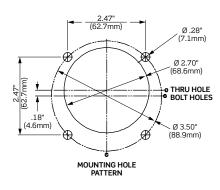
15° Panel Receptacle with Latching Ball Nose

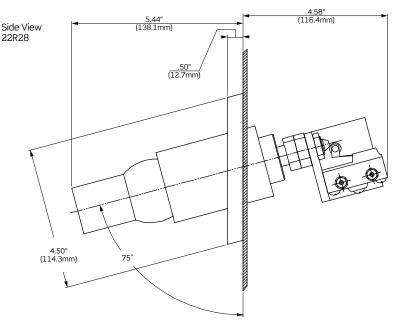
Front View, Common to 22R26 and 22R28 Configurations





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

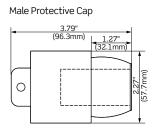


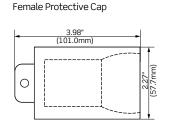


AMPACITY TABLE

Cable Size	Ampacity
250	455
350	570
500	700
750	885

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









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

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

(23L23-E Shown)



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



Male Panel Receptacle -30° Tapered Nose, Threaded Stud



Female Panel Receptacle -30° Tapered Nose, Threaded Stud

(23R24-H Shown)



Protective Cap (23P21-0 Shown)



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



23 Series Accessories



17CLF for Male Plug



Lubricating Spray C0001 for 16 Fl. Oz. Can



23 Series Device Ordering Information

CAM-TYPE PLUGS

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

CAM-TYPE PANEL MOUNT RECEPTACLES

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

COVERS

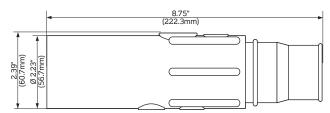
	C	aps	
	Male	Female	
White	23P21-W	23P22-W	
Black	23P21-E	23P22-E	
Brown	23P21-H	23P22-H	
Red	23P21-R	23P22-R	
Blue	23P21-B	23P22-B	
Orange	23P21-0	23P22-0	
Green	23P21-G	23P22-G	
Yellow	23P21-Y	23P22-Y	



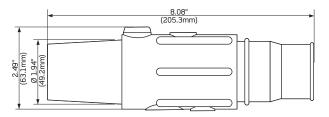
23 Series Technical Drawings

DIMENSIONS

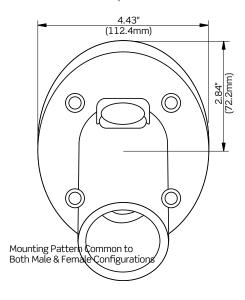
Taper Nose In-line Latching Male Plugs - Vulcanized



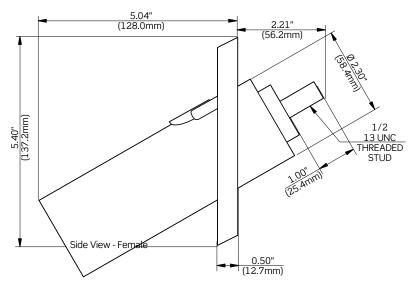
Taper Nose In-line Latching Female Plugs - Vulcanized

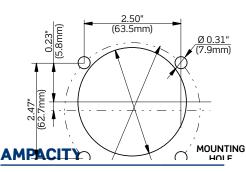


Front View 30° Panel Receptacle



Side View - Male





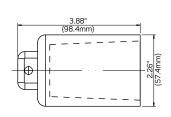
Cable Size	Ampacity
250	455
350	570
500	700
750	885
Excerpted from NEC Article 400, Ta	able 400.5(A)(2),

Male Protective Cap

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

(26.5mm) (2.69°.

2.21"



Female Protective Cap

90° column

49 Series Male and Female Plugs, 1135A Max



Industrial Grade

49 Series Panel Mounted Receptacles, 1135A Max





Industrial Grade

49 Series Device Ordering Information

MALE PLUGS

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

FEMALE PLUGS

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



Industrial Grade

49 Series Device Ordering Information

PANEL MOUNT RECEPTACLES

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

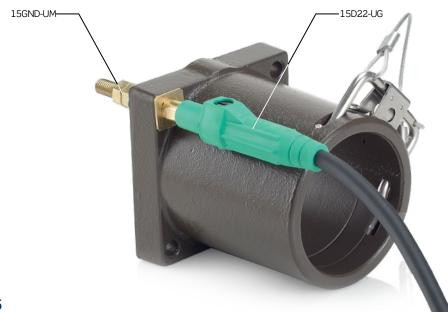
		Complete Male Receptacle		Complete Fem	ale Receptacle
		Single Hole Bus Bar	Double Hole Bus Bar	Single Hole Bus Bar	Double Hole Bus Bar
	White	49MR1-XW	49MR2-XW	49FR1-XW	49FR2-XW
	Black	49MR1-XE	49MR2-XE	49FR1-XE	49FR2-XE
	Brown	49MR1-XH	49MR2-XH	49FR1-XH	49FR2-XH
Receptacle Spacing:	Red	49MR1-XR	49MR2-XR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

49 Series Device Ordering Information

ACCESSORIES AND REPLACEMENT PARTS

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

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



AMPACITY RATINGS IN 40° AMBIENT FOR HIGH AMPERAGE APPLICATIONS

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

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



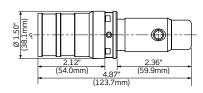


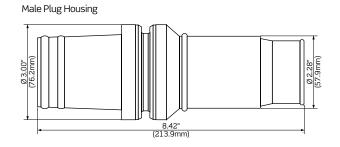
Industrial Grade

49 Series Device Technical Drawings

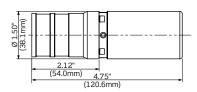
DIMENSIONS

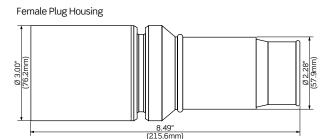
Male Contact



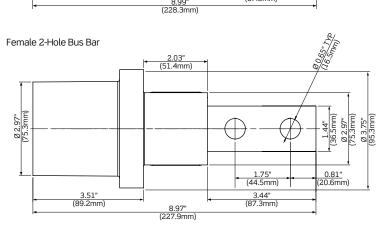


Female Contact

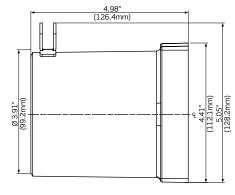




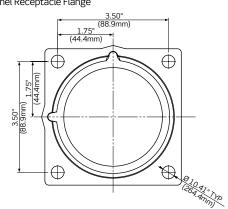
Male 2-Hole Bus Bar 2.03" (51.4mm) (51.4mm) (89.5mm) (89.5mm) (89.5mm) (89.5mm) (89.5mm) (89.7mm) (89.7mm) (89.7mm) (89.7mm) (89.7mm)



Panel Receptacle Housing



Panel Receptacle Flange



More Power Solutions for Rough Service Environments

The rhino-hide family of products



Rhino-Hide® NEMA Wiring Devices

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

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

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





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