
LEVITON
Single Pole
Cam Devices
SELECTION GUIDE
Industrial Grade Connectors
for Temporary and
Semi-Permanent Power
Distribution Applications
rhino-hide®

rhino-hide®

Superior performance and durability under the most demanding operating conditions.

As data centers continue to expand worldwide, Leviton single pole cam devices are increasingly the connector of choice for OEMs building critical power infrastructure. Trusted across both emerging and traditional applications, our solutions deliver the reliability and performance today's high-demand environments require.
You'll find Leviton in-line plugs and panel mount receptacles integrated into a wide range of equipment, including:

- Generators
- Generator Interface Panels
- Power Distribution Panels
- Cable Assemblies
- Load Banks
- Switchgear
- Alternative Power Sources
- And More







Common Applications

- Data Centers
- Welding and Construction Sites
- Commercial and Navy Shipbuilding/Repair
- Mining Operations
- Oil Rigs
- Sports, Entertainment and Movie Industry
- Theme Parks and Carnival Equipment
- Concert Venues and Convention Centers
- Ship-to-Shore Power
- Cell Tower Backup Power

Features and Benefits

- All 16/18 Series devices feature 35kA SCCR rating
- 17 Series devices feature 50ka SCCR rating
- 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

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 7-22

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 backup power and distribution applications such as data centers, construction sites, mining, welding, cell towers, live entertainment, film and TV, sporting events, and conventions.



17 SERIES

RATED UP TO
600 Amps

22 & 23 SERIES

RATED UP TO
690 Amps

PAGES 23-29

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 applications such as maritime, water purification plants and electrochemical machining equipment. Also growing in popularity for data center backup power.



49 SERIES

RATED UP TO
1135 Amps

PAGES 29-35

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

APPLICATIONS

Ideal for installation on both new and existing silicon controlled rectifiers (SCRs) and generator stations on oil rigs. Perfect for high power data center applications, as well.



*Refer to instruction sheet guidelines for installation

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

All 16/18 Series devices feature 35kA SCCR rating

Color-coded insulating sleeves for easy phase identification

Molded in markings on the device with standards and cable diameter

High conductivity - positive, vibration-proof connection provided by double cam design



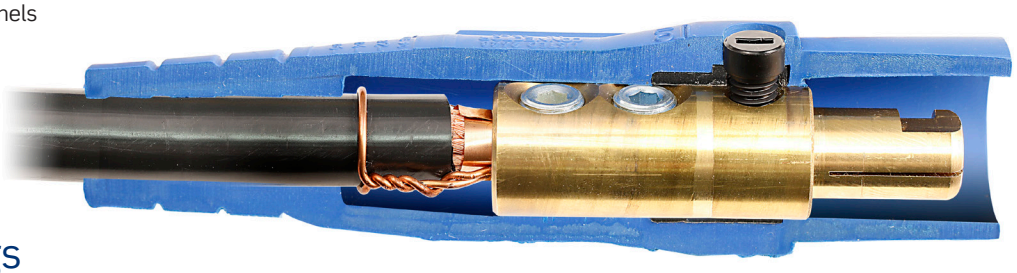
UV and chemical resistant - high durometer thermoplastic elastomer (TPV - Santoprene)

Self compensating for wear - slit in male contact provides spring action for longer usage

Thermoplastic insulating screw is non-conductive for safety; it also provides strength and durability, allowing sleeve to be easily detached if needed

Intermateable with competitive cam-type products—can be retrofitted to existing locations and power distribution systems

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)



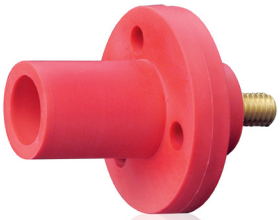
Female Plug - Single Set Screw Termination
(15D22-UY Shown)



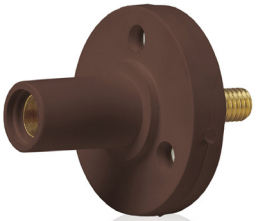
AMPACITY TABLE

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)

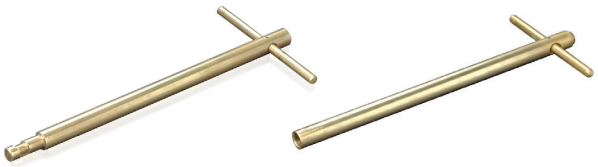


Female Protective Cap
(15P22-UW Shown)



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
Cable Size: #8 - #2 Max Ampacity: 150 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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
Cable Size: #8 - #4 Max Ampacity: 140 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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
Cable Size: #8 - #2 Max Ampacity: 150 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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	

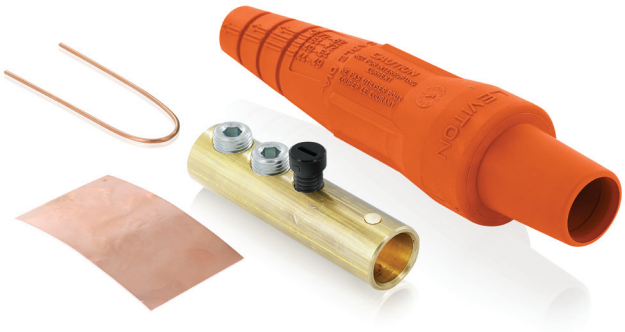
16 Series Taper Nose Plugs - 400 A, 600 VAC/DC Max

NEMA 3R Rated for Outdoor Use • #6 to 4/0 Cable Range

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



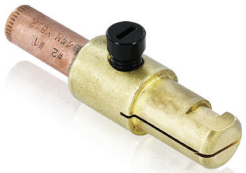
Female Plug - Double Set Screw Termination
(16D31-UO Shown)



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)

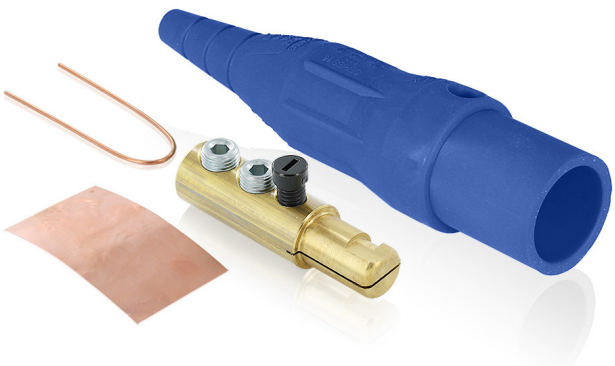


Female Plug - Crimp Tube Termination Contact
(For 16D34 Shown)



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

Male Plug with Alternate Cord Entry - Double Set Screw Termination
(16D45-AUE Shown)



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



Alternate Cord Entry Plugs Fit 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 Alternate Cord Entry	
		Male Plug	Female Plug	Male Plug*	Female Plug*
Cable Size: #6 - #2 Max Ampacity: 190 A Voltage: 600 VAC/DC 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 material allows from #6 to #2 wire without cutting sleeve

		Single Set Screw Termination		Double Set Screw Termination		Bulk Pack of 25	
		Male Plug	Female Plug	Male Plug	Female Plug	Male Plug	Female Plug
Cable Size: #2 - 2/0 Max Ampacity: 300 A Voltage: 600 VAC/DC 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 Max Ampacity: 300 A Voltage: 600 VAC/DC 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

		Single Set Screw Termination	
		Male Plug	Female Plug
Cable Size: 2/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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
	Yellow	16D23-UY	16D32-UY
Replacement Contacts		16D23-UC	16D32-UC

16 Series Taper Nose Plug Ordering Information

CAM-TYPE PLUGS

		Double Set Screw Termination					
				Bulk Pack of 25		Set Screws Pre-Installed, Bulk Pack of 30	
		Male Plug	Female Plug	Male Plug	Female Plug	Male Plug	Female Plug
Cable Size: 2/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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 4/0 Cable, Bulk Pack of 25	
		Male Plug	Female Plug
Cable Size: Pre-Cut 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	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

		Crimp Tube Termination	
		Male Plug	Female Plug
Cable Size: 3/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC 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

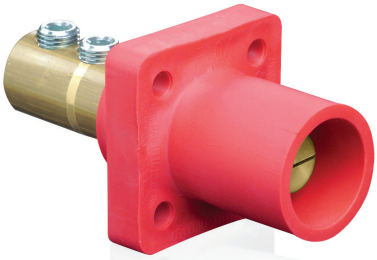
REPLACEMENT SLEEVES (TPV)

		For Plugs 2/0 to 4/0		For Plugs #2 - 2/0	
		Male Plug	Female Plug	Male Plug	Female Plug
	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	—	—

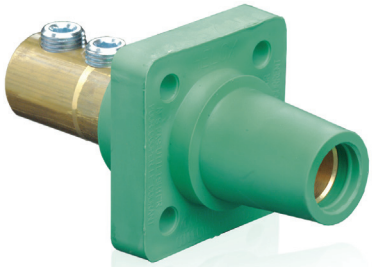
16 Series Taper Nose Panel Mount Receptacles - 400 A, 600 VAC/DC Max

NEMA 3R Rated for Outdoor Use

Male - 90° Double Set Screw
(16R21-UR Shown)



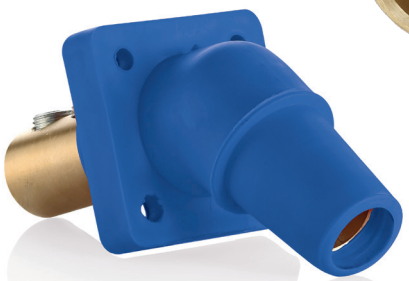
Female - 90° Double Set Screw
(16R22-UG Shown)



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



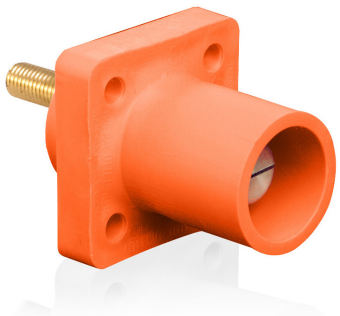
Female - 45° Double Set Screw
(16R28-UB Shown)



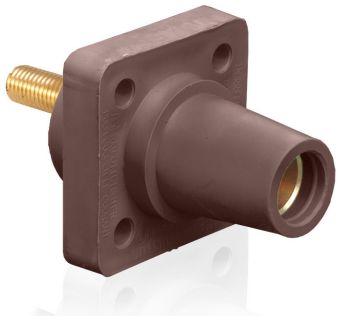


Select receptacles also available with Self-Clinching (PEM) Nuts to satisfy the needs of designers who prefer them for ease-of-install.

Male - .75"L Threaded Stud Termination (16R23-UO Shown)



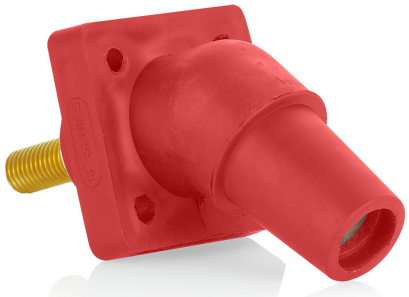
Female - .75"L Threaded Stud Termination (16R24-UH Shown)

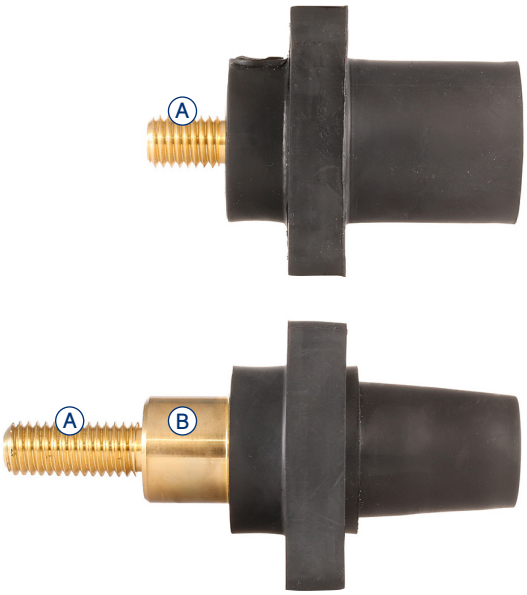


Male - 1.125"L Threaded Stud Termination (16R29-1UB Shown)



Female - 1.125"L Threaded Stud Termination (16R30-1UR Shown)





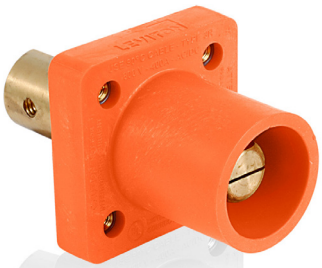
Threaded Stud Panel Mount Receptacles are available in lengths from .75" (A) to 1.5" including versions that feature a .75" (B) extended shoulder for greater electrical clearance when mounting to bus bars and compression lugs.

Female, 90°, Threaded Stud with Microswitch
(16RSW-UE Shown)

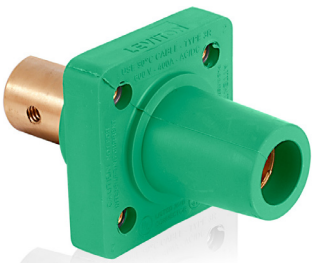


Microswitch receptacles can trigger an external indicator light (not included) to alert if there is a plug connected or not.

Male, 90° - Double Hole Bus Bar with Self-Clinching Nuts
(16R33-10 Shown)



Female, 90° - Double Hole Bus Bar with Self-Clinching Nuts
(16R34-1G Shown)



Bus Bar Panel Mount Receptacles are available with a single hole for faster installs to bus bar or with two holes to provide increased stability when needed.



Male, 45° - Double Hole Bus Bar with Self-Clinching Nuts
(16R35-1H Shown)



Female, 45° - Double Hole Bus Bar with Self-Clinching Nuts
(16R36-1R 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-U0 Shown)

Female Protective Cap
For use with Female Receptacles
(16P22-U0 Shown)



16 Series Taper Nose Receptacle Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLE

		Double Set Screw Termination				
		Male, 90°	Male, 90° Bulk Pack of 20	Male, 90° w/Self-Clinching Nut*	Female, 90°	Female, 90° w/Self-Clinching Nut*
Cable Size: 2/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R21-UW	16R21-BUW	16R21-1W	16R22-UW	16R22-1W
	Black	16R21-UE	16R21-BUE	16R21-1E	16R22-UE	16R22-1E
	Brown	16R21-UH	16R21-BUH	16R21-1H	16R22-UH	16R22-1H
	Red	16R21-UR	16R21-BUR	16R21-1R	16R22-UR	16R22-1R
	Blue	16R21-UB	16R21-BUB	16R21-1B	16R22-UB	16R22-1B
	Orange	16R21-UO	16R21-BUO	16R21-1O	16R22-UO	16R22-1O
	Green	16R21-UG	16R21-BUG	16R21-1G	16R22-UG	16R22-1G
	Yellow	16R21-UY	16R21-BUY	16R21-1Y	16R22-UY	16R22-1Y

NOTE: *No washer or external nut required.

		Double Set Screw Termination	
		Male, 45°	Female, 45°
Cable Size: 2/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R27-UW	16R28-UW
	Black	16R27-UE	16R28-UE
	Brown	16R27-UH	16R28-UH
	Red	16R27-UR	16R28-UR
	Blue	16R27-UB	16R28-UB
	Orange	16R27-UO	16R28-UO
	Green	16R27-UG	16R28-UG
	Gray	16R27-UGY	—
	Yellow	16R27-UY	16R28-UY

		.75"L Threaded Stud Termination		.75"L Threaded Stud Termination	
		Male, 90°	Female, 90°	Male, 45°	Female, 45°
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R23-UW	16R24-UW	16R29-UW	16R30-UW
	Black	16R23-UE	16R24-UE	16R29-UE	16R30-UE
	Brown	16R23-UH	16R24-UH	16R29-UH	16R30-UH
	Red	16R23-UR	16R24-UR	16R29-UR	16R30-UR
	Blue	16R23-UB	16R24-UB	16R29-UB	16R30-UB
	Orange	16R23-UO	16R24-UO	16R29-UO	16R30-UO
	Green	16R23-UG	16R24-UG	16R29-UG	16R30-UG
	Gray	—	—	16R29-UGY	—
	Yellow	16R23-UY	16R24-UY	16R29-UY	16R30-UY

		1.125"L Threaded Stud Termination			
				w/Self-Clinching Nut*	
		Male, 90°	Female, 90°	Male, 90°	Female, 90°
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC 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

NOTE: *No washer or external nut required.

16 Series Taper Nose Receptacle Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLE

		1.125"L Threaded Stud Termination Ⓤ Ⓒ Ⓢ	
		Male, 45°	Female, 45°
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC 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

		1.25"L Threaded Stud Termination Ⓤ Ⓒ Ⓢ - 0.75" Extended Shoulder		1.25"L Threaded Stud Termination‡ Ⓤ Ⓒ Ⓢ - 0.75" Extended Shoulder, Bulk Pack of 15	
		Male, 90°	Female, 90°	Male, 90°	Female, 90°
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R31-XW	16R32-XW	16R31-MXW	16R32-MXW
	Black	16R31-XE	16R32-XE	16R31-MXE	16R32-MXE
	Brown	16R31-XH	16R32-XH	—	—
	Red	16R31-XR	16R32-XR	16R31-MXR	16R32-MXR
	Blue	16R31-XB	16R32-XB	16R31-MXB	16R32-MXB
	Orange	16R31-XO	16R32-XO	—	—
	Green	16R31-XG	16R32-XG	16R31-MXG	16R32-MXG
	Yellow	16R31-XY	16R32-XY	—	—

NOTE: ‡ Available with (4) threaded inserts and (4) 10-32 Phillips Pan Head screws.

		1.50"L Threaded Stud Termination Ⓤ Ⓒ Ⓢ		Threaded Stud w/Microswitch†	
		Male, 90°	Female, 90°	Female, 90°	Female, 90° w/Self-Clinching Nut*
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed†	White	16R23-4UW	16R24-4UW	16RSW-UW	16RSW-TUW
	Black	16R23-4UE	16R24-4UE	16RSW-UE	16RSW-TUE
	Brown	16R23-4UH	16R24-4UH	16RSW-UH	—
	Red	16R23-4UR	16R24-4UR	16RSW-UR	16RSW-TUR
	Blue	16R23-4UB	16R24-4UB	16RSW-UB	16RSW-TUB
	Orange	16R23-4UO	16R24-4UO	16RSW-UO	—
	Green	16R23-4UG	16R24-4UG	16RSW-UG	16RSW-TUG
	Yellow	16R23-4UY	16R24-4UY	16RSW-UY	—

NOTE: †16RSW is not UL/CSA 1691 Listed. • *No washer or external nut required.

		Single Hole Bus Bar* Ⓤ Ⓒ Ⓢ	
		Male, 90° w/Self-Clinching Nut	Female, 90° w/Self-Clinching Nut
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R19-UW	16R20-UW
	Black	16R19-UE	16R20-UE
	Brown	16R19-UH	16R20-UH
	Red	16R19-UR	16R20-UR
	Blue	16R19-UB	16R20-UB
	Orange	16R19-UO	16R20-UO
	Green	16R19-UG	16R20-UG
	Yellow	16R19-UY	16R20-UY

NOTE: *No washer or external nut required.

16 Series Taper Nose Receptacle Ordering Information

CAM-TYPE PANEL MOUNT RECEPTACLE

		Double Hole Bus Bar			
		Male, 90°	Male, 90° Bulk Pack of 20	Male, 90° w/Self-Clinching Nut*	Male, 90° w/Self-Clinching Nut* Bulk Pack of 20
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R33-W	16R33-BW	16R33-1W	16R33-B1W
	Black	16R33-E	16R33-BE	16R33-1E	16R33-B1E
	Brown	16R33-H	16R33-BH	16R33-1H	16R33-B1H
	Red	16R33-R	16R33-BR	16R33-1R	16R33-B1R
	Blue	16R33-B	16R33-BB	16R33-1B	16R33-B1B
	Orange	16R33-O	16R33-BO	16R33-1O	16R33-B1O
	Green	16R33-G	16R33-BG	16R33-1G	16R33-B1G
	Yellow	16R33-Y	16R33-BY	16R33-1Y	16R33-B1Y

NOTE: *No washer or external nut required.

		Double Hole Bus Bar			
		Female, 90°	Female, 90° Bulk Pack of 20	Female, 90° w/Self-Clinching Nut*	Female, 90° w/Self-Clinching Nut* Bulk Pack of 20
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R34-W	16R34-BW	16R34-1W	16R34-B1W
	Black	16R34-E	16R34-BE	16R34-1E	16R34-B1E
	Brown	16R34-H	16R34-BH	16R34-1H	16R34-B1H
	Red	16R34-R	16R34-BR	16R34-1R	16R34-B1R
	Blue	16R34-B	16R34-BB	16R34-1B	16R34-B1B
	Orange	16R34-O	16R34-BO	16R34-1O	16R34-B1O
	Green	16R34-G	16R34-BG	16R34-1G	16R34-B1G
	Yellow	16R34-Y	16R34-BY	16R34-1Y	16R34-B1Y

NOTE: *No washer or external nut required.

		Double Hole Bus Bar			
		Male, 45°	Male, 45° w/Self-Clinching Nut*	Female, 45°	Female, 45° w/Self-Clinching Nut*
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	16R35-W	16R35-1W	16R36-W	16R36-1W
	Black	16R35-E	16R35-1E	16R36-E	16R36-1E
	Brown	16R35-H	16R35-1H	16R36-H	16R36-1H
	Red	16R35-R	16R35-1R	16R36-R	16R36-1R
	Blue	16R35-B	16R35-1B	16R36-B	16R36-1B
	Orange	16R35-O	16R35-1O	16R36-O	16R36-1O
	Green	16R35-G	16R35-1G	16R36-G	16R36-1G
	Yellow	16R35-Y	16R35-1Y	16R36-Y	16R36-1Y

NOTE: *No washer or external nut required.

16 Series Covers and Caps Ordering Information

TERMINAL CONNECTORS

		Bus Bar Mount			
		Angled Male	Angled Female	Offset Male	Offset Female
Cable Size: #2 - 4/0 Max Ampacity: 400 A 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

COVERS AND CAPS

		Panel Mount Covers	Caps	
		Male/Female (For 90° Panel Mount Receptacles only)	Male (For use with Male Receptacles)	Female (For use with Female Receptacles)
For Use With 16 Series Panel Mount 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

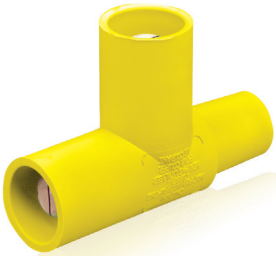
Double Male (M-M) Adapter
(16A25-UH Shown)



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 F-M-M	Tapping Tee F-F-M		
Max Ampacity: 400 A Voltage: 600 VAC/DC 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 M-F-F-F	Reverse 45° 3-Fer F-M-M-M	Double Male M-M	Double Female F-F
Max Ampacity: 400 A Voltage: 600 VAC/DC 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 F-M-M	Tapping Tee F-F-M	45° 3-Fer M-F-F-F	Reverse 45° 3-Fer F-M-M-M
Assembled Adapters Cable Size: 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC 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

AMPACITY TABLE	
Cable Size	Max Ampacity
#2	190
1/0	260
2/0	300
4/0	400

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



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



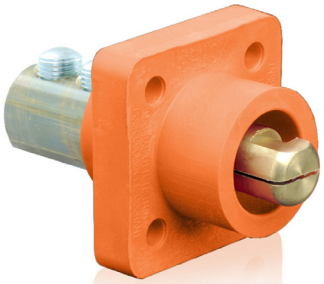
Male Plug - Single Set Screw Termination Contact (From 18D21-U* Shown)



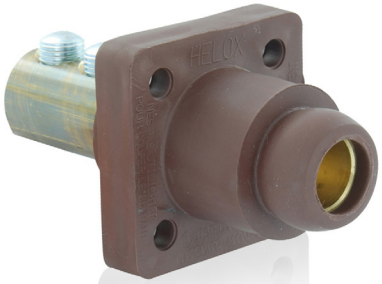
Female Plug - Single Set Screw Termination Contact (From 18D29-U* Shown)



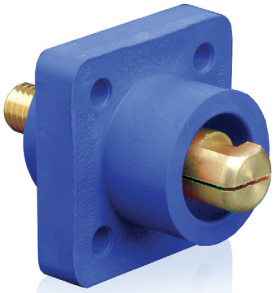
Male Panel Mount Receptacle - Double Set Screw
(18R23-UO Shown)



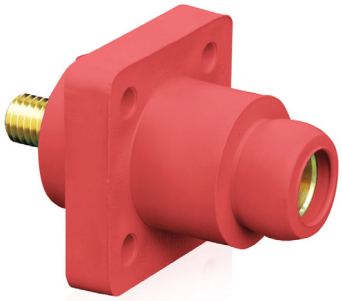
Female Panel Mount Receptacle - Double Set Screw
(18R24-UH Shown)

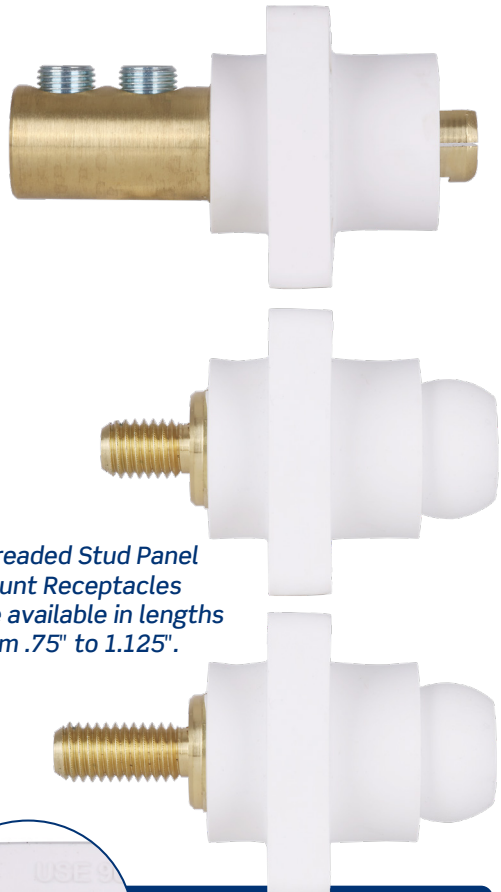


Male Panel Mount Receptacle - .75"L Threaded Stud
(18R21-UB Shown)



Female Panel Mount Receptacle - .75"L Threaded Stud
(18R22-UR Shown)





Threaded Stud Panel Mount Receptacles are available in lengths from .75" to 1.125".



Self-Clinching Nuts available on 1.125" threaded stud receptacles.

Male 90° Panel Mount Receptacle - 1.125"L Threaded Stud
(18R25-1Y Shown)



Female 90° Panel Mount Receptacle - 1.125"L Threaded Stud
(18R26-10 Shown)



All 18 Series 1.125" Threaded Stud Panel Mount Receptacles feature Self-Clinching (PEM) Nuts to facilitate easy installs.



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



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

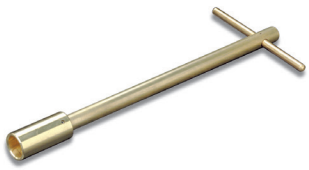


"Com-A-Long" Assembly Tools

16CLM-U for Female Plug



16CLF-U for Male Plug



Standard (1.5"H) Copper Replacement Shims
A0004 (Sold 10 per package)



Smaller Profile (1.35"H) Copper Replacement Shims - Bulk
A0012-B5K (Sold 5000 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 Max Ampacity: 300 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	18D21-UW	18D29-UW	18D22-UW	18D31-UW
	Black	18D21-UE	18D29-UE	18D22-UE	18D31-UE
	Brown	18D21-UH	18D29-UH	18D22-UH	18D31-UH
	Red	18D21-UR	18D29-UR	18D22-UR	18D31-UR
	Blue	18D21-UB	18D29-UB	18D22-UB	18D31-UB
	Orange	18D21-UO	18D29-UO	18D22-UO	18D31-UO
	Green	18D21-UG	18D29-UG	18D22-UG	18D31-UG
	Yellow	18D21-UY	18D29-UY	18D22-UY	18D31-UY

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

CAM-TYPE PANEL MOUNT RECEPTACLES

		.75"L Threaded Stud Termination		1.125"L Threaded Stud Termination	
		Male, 90°	Female, 90°	Male, 90° w/Self-Clinching Nut*	Female, 90° w/Self-Clinching Nut*
Cable Size: #2 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	18R21-UW	18R22-UW	18R25-1W	18R26-1W
	Black	18R21-UE	18R22-UE	18R25-1E	18R26-1E
	Brown	18R21-UH	18R22-UH	18R25-1H	18R26-1H
	Red	18R21-UR	18R22-UR	18R25-1R	18R26-1R
	Blue	18R21-UB	18R22-UB	18R25-1B	18R26-1B
	Orange	18R21-UO	18R22-UO	18R25-1O	18R26-1O
	Green	18R21-UG	18R22-UG	18R25-1G	18R26-1G
	Yellow	18R21-UY	18R22-UY	18R25-1Y	18R26-1Y

NOTE: *No washer or external nut required.

		Double Set Screw Termination	
		Male, 90°	Female, 90°
Cable Size: 2/0 - 4/0 Max Ampacity: 400 A Voltage: 600 VAC/DC 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 Max Ampacity: 400 A Voltage: 600 VAC/DC	White	18F21-UW	18F22-UW
	Black	18F21-UE	18F22-UE
	Red	18F21-UR	18F22-UR
	Blue	18F21-UB	18F22-UB
	Green	18F21-UG	18F22-UG

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

COVERS

		Caps		Panel Mount Covers
		Male (For use with Male Receptacles)	Female (For use with Female Receptacles)	
For Use With All 18 Series Panel Mount Receptacles	White	18P21-UW	18P22-UW	16S31-UW
	Black	18P21-UE	18P22-UE	16S31-UE
	Brown	18P21-UH	18P22-UH	16S31-UH
	Red	18P21-UR	18P22-UR	16S31-UR
	Blue	18P21-UB	18P22-UB	16S31-UB
	Orange	18P21-UO	18P22-UO	16S31-UO
	Green	18P21-UG	18P22-UG	16S31-UG
	Yellow	18P21-UY	18P22-UY	16S31-UY
	Clear	—	—	16S31-UC

CAM-TYPE ADAPTERS

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

		45° 3-Fer M-F-F-F	Double Male M-M
Max Ampacity: 400 A Voltage: 600 VAC/DC UL/CSA 1691 Listed	White	—	18A25-UW
	Blue	—	18A25-UB
	Green	18A23-UG	—

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

17 SERIES

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

Color-coded insulating sleeves for easy phase identification



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

Thermoplastic screw makes sleeve detachable when needed

22 & 23 SERIES



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

AMPACITY TABLE	
Cable Size	Max Ampacity
250 MCM	445
350 MCM	500
500 MCM	600

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



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



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)

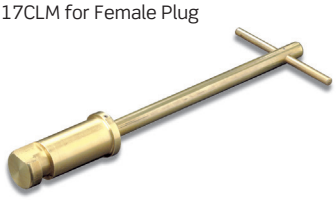


Female Panel Mount Receptacle -
Threaded Stud Termination with
Microswitch
(17RSW-SR Shown)

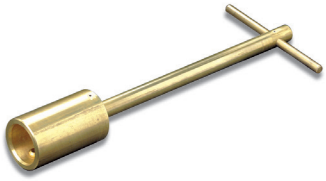


17 Series Accessories

"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 Max Ampacity: 600 A Voltage: 600 V 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° Ⓤ Ⓒ	1.125"L, Female, 30° Ⓤ Ⓒ	1.125"L, Female, 30° w/Microswitch*
Cable Size: 250-500 MCM Max Ampacity: 600 A Voltage: 600 V 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 17 Series Panel Mount 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 Ball Nose Devices - 690 A, 600 V Max
Plugs with 350 to 750 MCM Cable Range

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
(22L22-SE Shown)



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



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



Female Plug - Latching, 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)

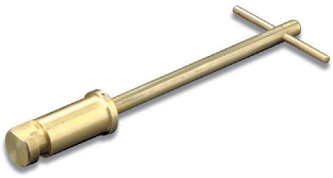


Female Panel Mount
Receptacle - 30°
1"L Threaded Stud
(22R24-SO Shown)

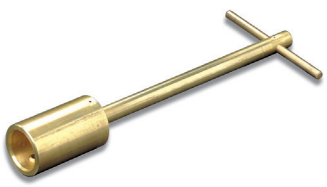


22 Series Accessories

"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 Ball Nose Device Ordering Information

CAM-TYPE PLUGS

		Crimp Tube Termination	
		Male Plug	Female Plug
Cable Size: 350-500 MCM Max Ampacity: 600 A 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

		Latching, Crimp Tube Termination	
		Male Plug	Female Plug
Cable Size: 500-750 MCM Max Ampacity: 690 A 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 Max Ampacity: 690 A 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

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

COVERS

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

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

AMPACITY TABLE	
Cable Size	Max Ampacity
250 MCM	445
350 MCM	500
500 MCM	600
750 MCM	690
777 MCM	690

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



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



Receptacles with 250 to 777 MCM Cable Range

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

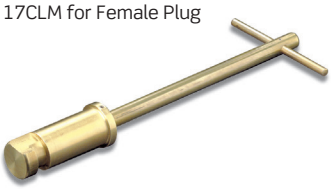


Female Panel Receptacle -
30° Tapered Nose, 1.125"L Threaded Stud
(23R24-SH Shown)

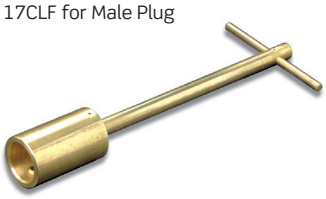


23 Series Accessories

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



17CLF for Male Plug



Male Protective Cap
For use with Male Receptacles
(17P21-0 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 Max Ampacity: 600 A 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 Max Ampacity: 690 A 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 Max Ampacity: 690 A 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 23 Series Panel Mount 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

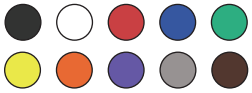
These devices are suitable for high-amperage AC or DC loads. Typical uses are for power delivery on off-shore and land-based oil and gas rigs, or for data center projects with higher power demands. 49 Series devices are used by SCR drive manufacturers and top drive manufacturers to distribute power from 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[1], Gray[1] and Brown



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

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

Coupler

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



49COP-E Shown

NOTE: 1 Select configurations only. See ordering information for details.

49 Series Device Ordering Information

MALE PLUGS*

Max Ampacity Conductor Size	636A 313 MCM	796A 444 MCM	898A 535 MCM	1009A 646 MCM	1135A 777 MCM	Replacement 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 Conductor Size	636A 313 MCM	796A 444 MCM	898A 535 MCM	1009A 646 MCM	1135A 777 MCM	Replacement 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

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

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

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

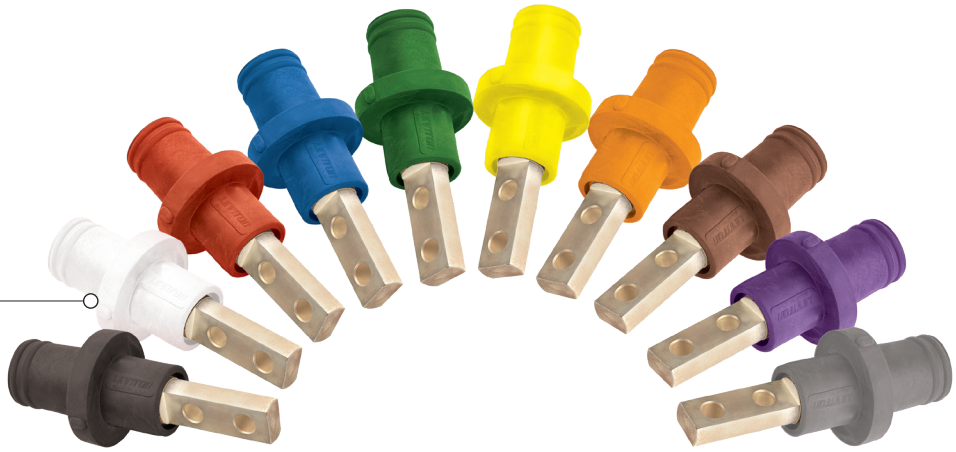
Detent pin allows clevis pin to stay secure in either open or closed position

Receptacles deliver up to 1,135 Amps continuous duty

TPV cap prevents contamination when receptacle is not in use

Complete Receptacles Include:

- Housing Assembly
- Contact Assembly
- Clevis Pin
- Dust Cap
- Locking Pin



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 Receptacles Featuring 45° Clevis Pin and Replacement Contacts

	Single Hole				Double Hole			
	Male	**Replacement Contact Only**	**Female**	**Replacement Contact Only**	**Male**	**Replacement Contact Only**	**Female**	**Replacement Contact Only**
White	49MR1-XW	49MC1-W	49FR1-XW	49FC1-W	49MR2-XW	49MC2-W	49FR2-XW	49FC2-W
Black	49MR1-XE	49MC1-E	49FR1-XE	49FC1-E	49MR2-XE	49MC2-E	49FR2-XE	49FC2-E
Brown	49MR1-XH	49MC1-H	49FR1-XH	49FC1-H	49MR2-XH	49MC2-H	49FR2-XH	49FC2-H
Red	49MR1-XR	49MC1-R	49FR1-XR	49FC1-R	49MR2-XR	49MC2-R	49FR2-XR	49FC2-R
Blue	49MR1-XB	49MC1-B	49FR1-XB	49FC1-B	49MR2-XB	49MC2-B	49FR2-XB	49FC2-B
Orange	49MR1-XO	49MC1-O	49FR1-XO	49FC1-O	49MR2-XO	49MC2-O	49FR2-XO	49FC2-O
Green	49MR1-XG	49MC1-G	49FR1-XG	49FC1-G	49MR2-XG	49MC2-G	49FR2-XG	49FC2-G
Yellow	49MR1-XY	49MC1-Y	49FR1-XY	49FC1-Y	49MR2-XY	49MC2-Y	49FR2-XY	49FC2-Y
Purple	49MR1-XP	49MC1-P	49FR1-XP	49FC1-P	49MR2-XP	49MC2-P	49FR2-XP	49FC2-P
Gray	49MR1-XGY	49MC1-GY	49FR1-XGY	49FC1-GY	49MR2-XGY	49MC2-GY	49FR2-XGY	49FC2-GY
Replacement clevis pin for male or female “X” receptacles: 49XNR-KIT								
Replacement detent pin for male or female “X” receptacles: 49PIN-X								

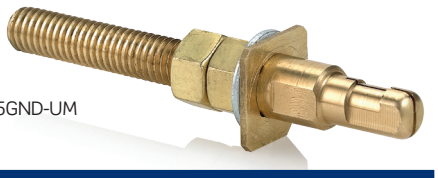
49 Series Device Ordering Information

ACCESSORIES AND REPLACEMENT PARTS

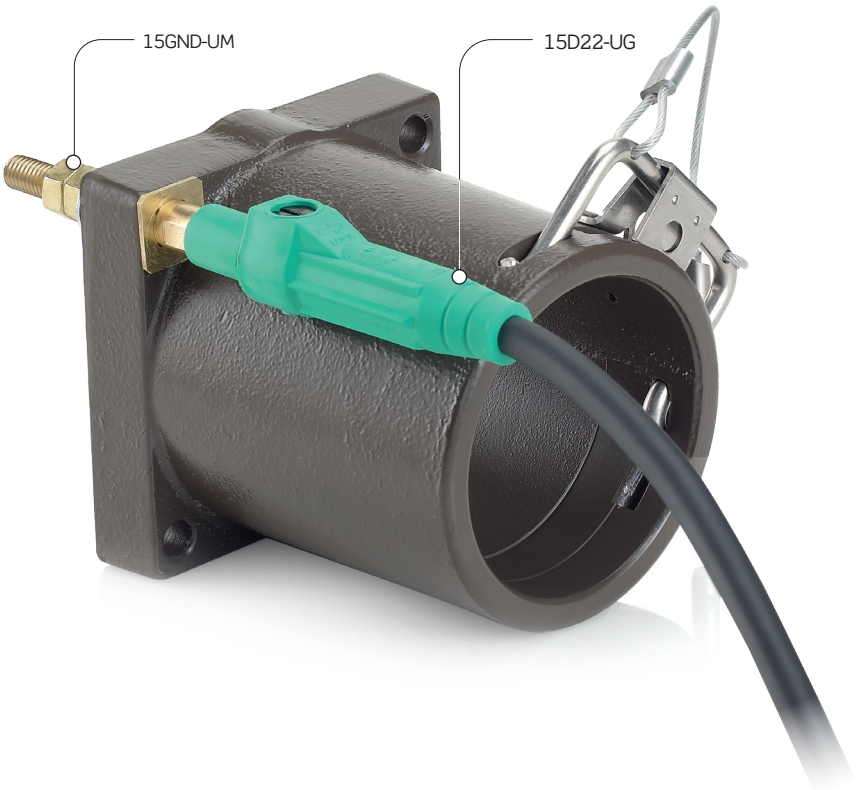
	Description	Color	Material	Cat. No.
For Plugs	Replacement Clevis Pin for In-Line Connector Coupler	Silver	Stainless Steel	49PNR-KIT
	Male Dust Cap	Black	High-Performance TPV	49DSM
	Female Dust Cap	Black	High-Performance TPV	49DSF
	In-line Coupler	White	Powder-coated aluminum	49COP-W
	In-line Coupler	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	Replacement Clevis Pin for "X" Version Receptacle	Silver	Stainless Steel	49XNR-KIT
	Replacement Detent Pin for "X" Version Receptacle	Silver	Stainless Steel	49PIN-X
	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.

†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 image at right.



15GND-UM



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

rhino-hide® Single Pole Cam Devices

LEVITON®

Superior performance and durability under the most severe operating conditions.













Leviton Manufacturing Co., Inc.
201 North Service Road, Melville, NY 11747
T: 1-800-323-8920 • F: 1-800-832-9538
Tech Line (M – F 8am - 10pm, Sat 9am - 7pm, Sun 9am - 5pm / E.S.T.): 1-800-824-3005

Leviton Manufacturing of Canada, Ltd.
165 Hymus Boulevard, Pointe Claire,
Quebec H9R 1E9
P: 1-800-469-7890 • F: 1-800-563-1853

Leviton S. de R.L. de C.V.
Lago Tana 43, Mexico DF, Mexico CP 11290
P: (+52) 55-5082-1040 • www.leviton.com.mx

Leviton Middle East
J/Ali Free Zone, View 19 7th Floor, Office 701
PO Box 262742 Dubai, UAE
P: +971 4 886 4722 • F: +971 4 886 4723





Leviton Manufacturing Co., Inc.
201 N Service Rd, Melville, NY 11747
Telephone: 1-800-323-8920 • Tech Line: 1-800-824-3005 (M-F 8AM-10PM EST, Sat 9AM-7PM EST)

Visit our Website at: leviton.com email: industrial@leviton.com

© 2026 Leviton Manufacturing Co., Inc. All rights reserved. Specifications subject to change without notice.

26-CI-0039

SCAN TO EXPLORE ALL PRODUCT DETAILS & VIDEOS