

Single Pole Cam-Type Connectors

15, 16 & 18 Series: For applications up to 400A, 600V AC/DC

rhino-hide®









rhino-hide single Pole Cam-Type Connectors



Overview







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



UL/CSA 1691 Compliant

rhino-hide® Single Pole Cam-Type Connectors



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



Ordering Information

15 Series: Single Set Screw or Crimp Tube Termination

NEMA 3R Rated for Indoor/Outdoor Use

The 15 Series Taper Nose mini-cam plugs, receptacles and connectors are tough and reliable. Primary applications include carnivals and theme parks, as well as other entertainment applications.











15D21-UG

15R21-UR

15R22-UH

15S31-UB

CAM-TYPE PLUGS

CAPI I II E I EOOS		
Cable Size: #8 - #2 Max Ampacity: 150A	Single Set Scre	w Termination ® ®
	Male Plug	Female Plug
	15D21-U*	15D22-U*
Replacement Contacts	15D21-UC	15D22-UC
0.11.6' "0."4	Crimp Tube 7	Termination ® ®
Cable Size: #8 - #4	Male Plug	Female Plug
Max Ampacity: 140A	15D23-U*	15D24-U*
Replacement Contacts	15D23-UC	15D24-UC
Max Ampacity: 140A	15D23-U*	15D24-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

REPLACEMENT SLEEVES

	Male Plug	Female Plug				
	15SDM-1U*	15SDF-1U*				

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE PANEL MOUNT RECEPTACLES

Cable Size: #8 - #2 Max Ampacity: 150A	.5" Threaded Stud Term. (9) (6)		.75" Threaded Stud Term. 🕪 🚳	
	Male Plug	Female Plug	Male Plug	Female Plug
	15R21-U*	15R22-U*	15R21-1U*	15R22-1U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

COVERS

Enclosure Male/Female
15S31-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

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



rhino-hide® Single Pole Cam-Type Connectors

16 Series: Single or Double Set Screw or Crimp Tube Termination NEMA 3R Rated for Outdoor Use

The 16 Series Taper Nose products are the connectors of choice for power distribution for construction sites, mining operations, concerts, sound stages, movie-making, television production, sporting events and conventions.









16D21-UR

16D29-UG

16D24-UE

CAM-TYPE PILIGS

CAM-TYPE PLUGS					
Cable Size: #6 - #2	Double Set Screw Termination ® ®				
Max Ampacity: 190A	Male Plug		Female Plug		
	160)44-U*	16D ₄	45-U*	
		Crimp Tube Te	rmination ® ®		
Cable Size: #2 - #1	Mal	e Plug		e Plug	
Max Ampacity: 220A	160)25-U*	16D	34-U*	
Cable Size: #2 - 2/0 Max Ampacity: 300A	Single Set Sci Male Plug	rew Termination Female Plug	Double Set Screw Male Plug	r Termination ® ® Female Plug	
	16D21-U*	16D29-U*	16D22-U*	16D31-U*	
Replacement Contacts	_	_	16D22-UC	16D31-UC	
0.11.6' 1/0.0/0	Crimp Tube Termination ® ®				
Cable Size: 1/0 - 2/0	Male Plug		Female Plug		
Max Ampacity: 300A	16D26-U*		16D35-U*		
Cable Size: 2/0 - 4/0	Single Set Scr Male Plug	rew Termination Female Plug	Double Set Screw Male Plug	r Termination ® ® Female Plug	
Max Ampacity: 400A	16D23-U*	16D32-U*	16D24-U*	16D33-U*	
Replacement Contacts	_	_	16D24-UC	16D33-UC	
Oable Circ. 2/0 4/2	Crimp Tube Termination ® ®				
Cable Size: 3/0 - 4/0 Max Ampacity: 400A	Mal	e Plug	Female Plug		
	160)28-U*	16D37-U*		

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

REPLACEMENT SLEEVES (TPV)

For Plugs	1/0 to 4/0	For Plugs #2 - 2/0	
Male Plug	Female Plug	Male Plug	Female Plug
16SDM-1U*	16SDF-1U*	16SDM-2U*	16SDF-2U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE PLUGS

Cable Size: 2/0 - 4/0	Double Set Screw Termination ® ®			
Max Ampacity: 400A	Male Plug	Female Plug		
Flame Retardant	16D40-U	16D41-U		

These devices available in White only.

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



Ordering Information

16 Series: Single or Double Set Screw or Crimp Tube Termination NEMA 3R Rated for Outdoor Use







16R28-UB





16R21-UR

16R24-UW

CAM-TYPE PANEL MOUNT RECEPTACLE

0.11.6' 0.0 4.0		Doub	le Set Screw	Terminatio	n 🖫 © -	
Cable Size: 2/0 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90° Mal		ale, 45°	Female, 45°	
Max Allipacity. 400A	16R21-U*	16R22	!-U*	16R27-U*		16R28-U*
		.75"L T	hreaded Stud	d** Termina	tion ® ®	
able Size: #2 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90°	w/micro	owsitch	Male, 45°	Female, 45°
ax Ampacity. 400A	16R23-U*	16R24-U*	16RS	W-U*	16R29-U*	16R30-U*
	1.125"L Threaded Stud** Termination ® ®					
able Size: #2 - 4/0 lax Ampacity: 400A	Male, 90°	Female, 90°		Self-Clinching N Male, 90°		g Nut Female, 90°
	16R23-1U*	16R24-1U*		16	R25-1U*	16R26-1U*
able Size: #2 - 4/0	1.25"L Threaded Stud** Termination - Male, 90°			on - 0.75" E	xtended Shoulder ® Female, 9	
Max Ampacity: 400A	16R31-X*		16R32-X*			
20blo Sizo, #2 4/0		Hal	f Round w/Ta	apped Hole		
Cable Size: #2 - 4/0		Male, 90°			Female, 9	0°
Max Ampacity: 400A		16R19-U*		16R20-U*		

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

TERMINAL CONNECTORS

Cable Size: #2 - 4/0 Max Ampacity: 400A	Male Angle	Bus Bar Mount ® 🚳 Female Angle	Offset
	16M21-2U*	16F21-U*	16F22-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

COVERS

Enclosure	Caps	
Male/Female	Male	Female
16S31-U*	16P21-U*	16P22-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow), CL (Clear).

CAM-TYPE ADAPTERS

OAM THE ADALTER	10			
Max Ampacity: 400A	Paralleling Tee ® & Tapping Tee ® & F-F-M		3-Fer (l) (l) M-F-F-F	Reverse 3-Fer ® F-M-M-M
	16A21-U*	16A22-U*	16A23-U*	16A26-U*
May Amnacity 400A	Double N	1ale № ®	Double Female ® ®	
Max Ampacity: 400A	16A2	25-U*	16A24-U*	
Replace * with the following: W	/ (White), E (Black), H (Brown), R (F	Red), B (Blue), O (Orange), G (Gree	n), Y (Yellow).	
Assembled Adapters Cable Size: 4/0	Paralleling Tee ® ® F-M-M	Tapping Tee ® ® F-M-F	3-Fer (1) (6) M-F-F-F	Reverse 3-Fer ® F-M-M-M
Max Ampacity: 400A	16A31-U*	16A32-U*	16A33-U*	16A36-U*

Replace * with the following: W (White), E (Black), R (Red), B (Blue), G (Green).

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

^{*}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.



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18 Series: Single or Double Set Screw Termination

NEMA 3R Rated for Outdoor Use











18D21-UG

18R21-UB

18F21-UW

18R24-UG

The 18 Series Ball Nose plugs, receptacles and connectors are used by the broadcast industry in Canada, as well as the welding industry in the United States.

CAM-TYPE PLUGS

Cable Size: #2 - 2/0	Single Set Screw Termination ® & Male Plug Female Plug		Double Set Screw Male Plug	Termination ® © Female Plug
May Ampositus 2004	Male Flug	remate riug	Male Flug	remate rtug
Max Ampacity: 300A	18D21-U*	18D29-U*	18D22-U*	18D31-U*
Cable Size: 2/0 - 4/0 Max Ampacity: 400A	Single Set Screw Termination ® ®		Double Set Screw Termination 🖫 💁	
	Male Plug	Female Plug	Male Plug	Female Plug
	18D23-U*	18D32-U*	18D24-U*	18D33-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE PANEL MOUNT RECEPTACLES

0-bl- 6 #0 4/0	.75"L Threaded	Stud** Termination ® ®
Cable Size: #2 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90°
	18R21-U*	18R22-U*
Cable Size: 2/0 - 4/0 Max Ampacity: 400A	Double Set So	crew Termination ® ®
	Male, 90°	Female, 90°
	18R23-U*	18R24-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

FEMALE TERMINAL CONNECTORS

FEMALE TERMINAL CONNECTORS		COVERS		
Cable Size: #2 - 4/0	Bus Bar Mount ® ®		Caps	
	Angle	Offset	Male	Female
Max Ampacity: 400A	18F21-U*	18F22-U*	18P21-U*	18P22-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE ADAPTERS

Max Ampacity: 400A	Paralleling Tee ® ® F-M-M	Tapping Tee ® ® F-F-M		3-Fer ® ® M-F-F-F
	18A21-UW	18A22-UW		18A23-UW
May Ampaity 400A	Double Male ® ®		Double Female 🖫 🚳	
Max Ampacity: 400A	18A25-UW		18A24-UW	

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

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

^{**}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.

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Accessories









15 SERIES DEVICES

"Com-A-Long"Assembly Tools	15CLM-U for Female Plug	15CLF-U for Male Plug
Lubricating Spray (16 Fl. oz. can)	C0001	
Copper Shims (Sold 10 per package)	A0006	i
Strain Relief Wire (Sold 10 per package)	A0007	,
Set Screws (Sold 10 per package)	A0001	
Plastic Screws (Sold 10 per package)	A0011	

16 AND 18 SERIES DEVICES

"Com-A-Long"Assembly Tools	16CLM-U for Female Plug	16CLF-U for Male Plug
Lubricating Spray (16 Fl. oz. can)	C000	1
Copper Shims (Sold 10 per package)	A000	4
Strain Relief Wire (Sold 10 per package)	A000	3
Set Screws (Sold 10 per package)	A000	2
Plastic Screws (Sold 10 per package)	A001	0







Specifications

Material Specifications		
Insulator:	TPV	
Contact:	Solid Brass	
Strain Relief: Copper Wire		
Assembly Screw: Thermoplastic		

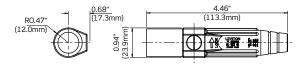
Standards and Certifications		
NEMA: 3R		
UL:	1691	
CSA:	C22.2 No. 1691-12	

Ampacity Table		
Cable Size	Ampacity	
#8	80	
#6	105	
#4	140	
#2	190	
#1	220	
1/0	260	
2/0	300	
3/0	350	
4/0	405	
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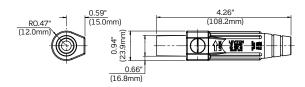
Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

15 Series Devices

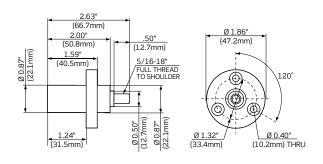
Male Plug



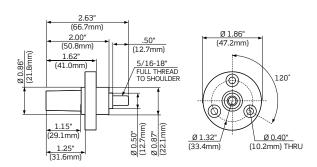
Female Plug



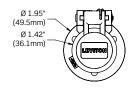
Male Panel Receptacle

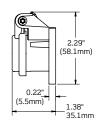


Female Panel Receptacle



Enclosure for Male and Female Panel Receptacles

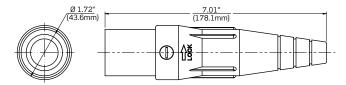




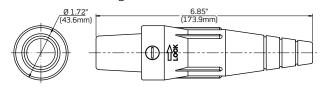


16 Series Devices

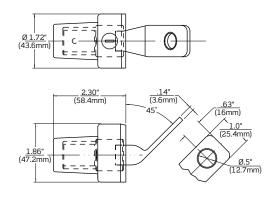
Male Detachable Plug



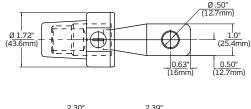
Female Detachable Plug

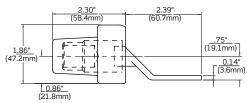


16F21 Female Terminal Connector

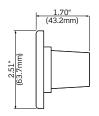


16F22 Female Terminal Connector

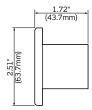




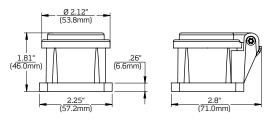
Male Protective Cap



Female Protective Cap

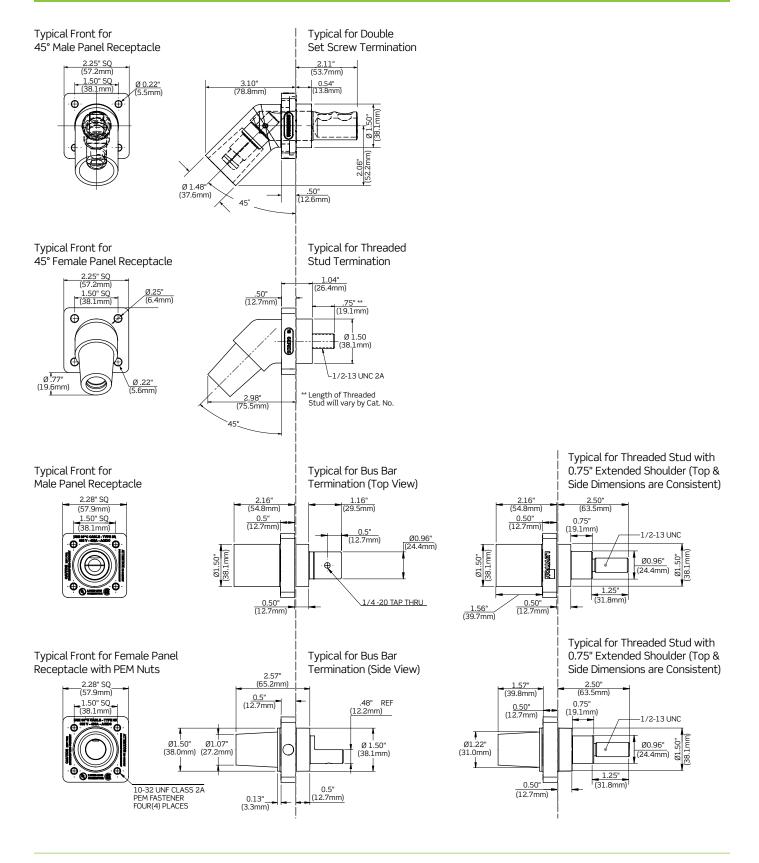


Enclosure for Male and Female Panel Receptacles



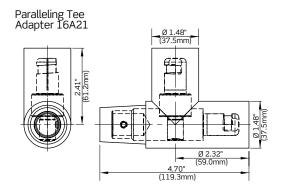


16 Series Devices

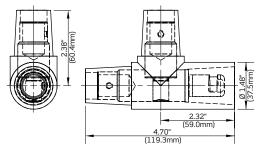




16 Series Devices

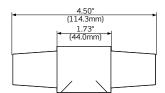






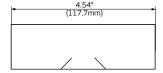
Double Female Adapter 16A24



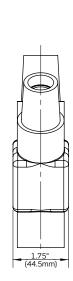


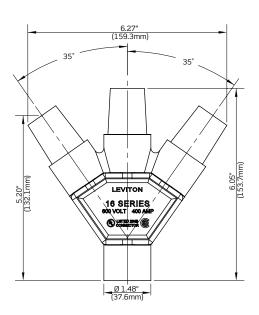
Double Male Adapter 16A25



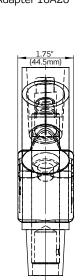


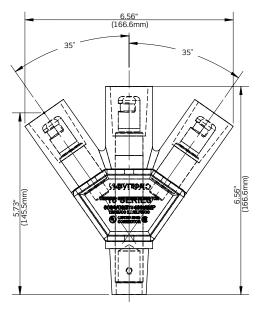
3-Fer Adapter 16A23





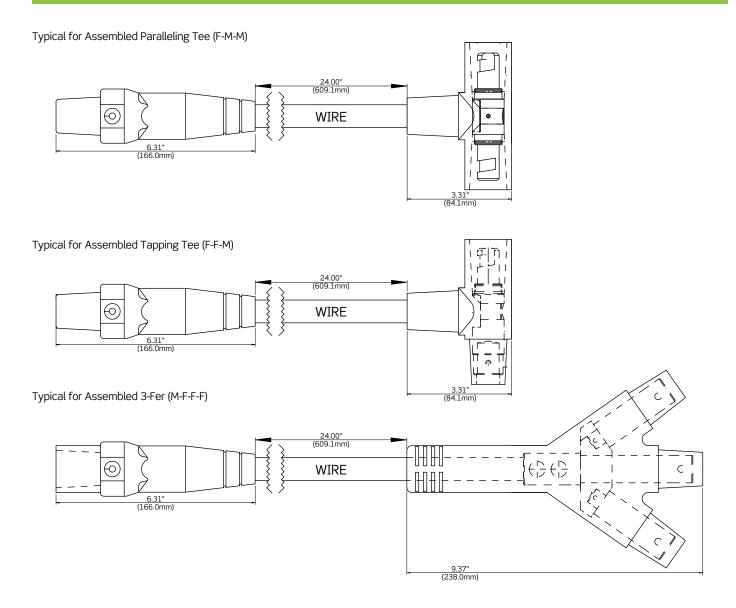
Reverse 3-Fer Adapter 16A26







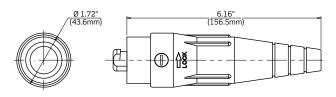
16 Series Devices



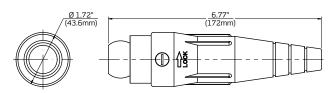


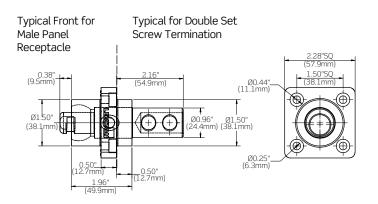
18 Series Devices

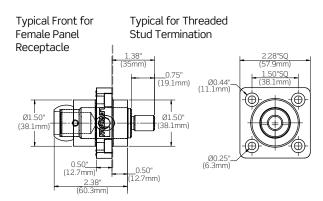
Male Detachable Plug



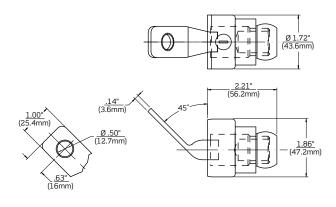
Female Detachable Plug



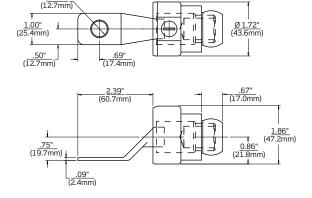




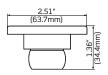
18F21 Female Terminal Connector - Bus Bar Mount, Angled



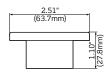
18F22 Female Terminal Connector - Bus Bar Mount, Offset



18P21 Male Protective Cap



18P22 Female Protective Cap

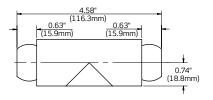




18 Series Devices

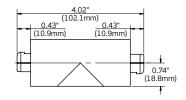
18A25 Double Male Adapter



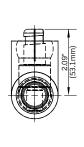


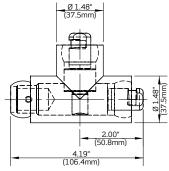
18A24 Double Female Adapter



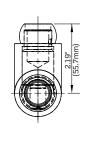


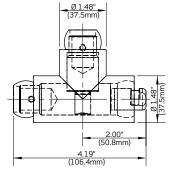
Paralleling Tee Adapter



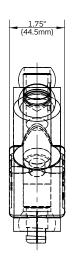


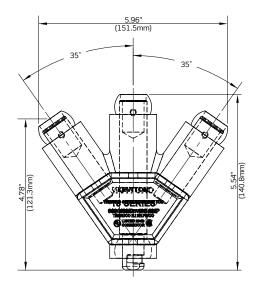
Tapping Tee Adapter





3-Fer Adapter





Also Available!

Rhino-Hide® NEMA Wiring Devices

Ideal for physically demanding environments that suffer from exposure to weather, chemicals, vibration, and physical strain

Common Applications



Features & Benefits

- Submersible, watertight, and dust-tight for outdoor and other wet environments; rated to NEMA Enclosure Type 3R, 4, 4X, 6, 6P, 12, 13 and IP66/IP67/IP68/IP69K (high-pressure steam cleaning); ABS certified – suitable for marine environments
- Coated aluminum components provide superior corrosion resistance to bare aluminum, especially in salt-air environments, which extends service life of the device and facilitates easier installation and removal of threaded components
- Threaded connections make these devices ideal in high-vibration environments such as oil-drilling and mining operations
- Nickel-plated brass electrical contacts provide superior electrical performance and corrosion resistance for extended service life
- Devices are compatible with other manufacturers' devices as well as standard NEMA configured devices
- Available in seven voltage/amperage configurations

Visit our Website at:
www.leviton.com/rhinohide
email: industrial@leviton.com

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