

## RHINO-HIDE® SINGLE POLE | Cam-Type Devices

### Rhino-Hide® Single Pole Cam Devices

#### 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 at 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.

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 these series include generator test stations, water purification plants, electrochemical machining equipment and other general industrial uses.

Leviton's 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.

#### 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.

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 (SCRs) 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.

## Cam-Type Devices

### Features and Benefits

#### 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

- Motor and generator splices
- Mining and construction sites
- Commercial and navy shipbuilding and repair
- Other temporary power applications

#### Leviton Cam-Type Devices

- 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.

### Single Pole Group



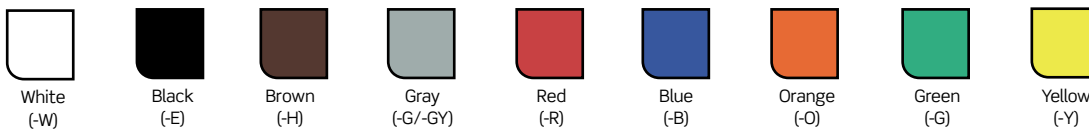
## RHINO-HIDE® SINGLE POLE | Cam-Type Connectors

### Cam-Type Plugs

#### Sample Cam-Type Components



**Color Choices** Rhino-Hide® Cam-Type devices are offered in a wide range of colors. To order colors, add suffix to Cat. No.



#### Cam-Type Plugs

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

\*V Series Neoprene™.  
 \*\*22L22-S and 22L25-S Series: TPV

## RHINO-HIDE® SINGLE POLE | 23 Series | Plugs | Receptacles

### 23 Series

#### Latching Taper Nose, Cam-Type Plugs

690A, 600VAC/DC Max

Leviton's cam-type positive latching connectors and receptacles are the standard used by Navy bases and shipyards in supplying 3-phase power to ships at dockside. Our latching connector series has been tested to meet Navy specs. These heavy duty, completely insulated connectors are vibration resistant so they will not loosen — ensuring high conductivity and maximum efficiency. Contacts can be retrofitted to existing locations and power distribution systems.

#### 23 Series Cam-Type Plugs (up to 690A, 600V)

##### 23 Series, Latching Taper Nose — Cam-Type Plugs

		Male Plug	Female Plug	
Description	Color	Cat. No.	Cat. No.	
<b>Crimp Tube Termination</b> Cable Size: 350-500MCM Max Ampacity: 690A Voltage: 600V Neoprene™ Sleeve	White	23L22-W	23L25-W	
	Black	23L22-E	23L25-E	
	Brown	23L22-H	23L25-H	
	Red	23L22-R	23L25-R	
	Blue	23L22-B	23L25-B	
	Orange	23L22-O	23L25-O	
	Green	23L22-G	23L25-G	
	Yellow	23L22-Y	23L25-Y	
	<b>Crimp Tube Termination</b> Cable Size: 500-750MCM Max Ampacity: 690A Voltage: 600V Neoprene™ Sleeve	White	23L23-W	23L26-W
		Black	23L23-E	23L26-E
Brown		23L23-H	23L26-H	
Red		23L23-R	23L26-R	
Blue		23L23-B	23L26-B	
Orange		23L23-O	23L26-O	
Green		23L23-G	23L26-G	
Yellow		23L23-Y	23L26-Y	

Note: Contact factory for availability



23L25-G



23L23-E



23L26-R

#### 23 Series Panel Mount Receptacles (690A, 600V)

##### 23 Series, Latching Taper Nose — Panel Mount Receptacles

		Male 30°	Female 30°
Description	Color	Cat. No.	Cat. No.
<b>1.00" L Threaded Stud Termination</b> Cable Size: 250-750MCM Max Ampacity: 690A Voltage: 600V	White	23R23-W	23R24-W
	Black	23R23-E	23R24-E
	Brown	23R23-H	23R24-H
	Red	23R23-R	23R24-R
	Blue	23R23-B	23R24-B
	Orange	23R23-O	23R24-O
	Green	23R23-G	23R24-G
	Yellow	23R23-Y	23R24-Y

Note: Contact factory for availability



#### Related Products

To accommodate everyday use Leviton offers a variety of 23 Series accessories. See page J-24 for more information.