



# SNAP-LUG QUICK-DISCONNECT POWER CONNECTORS

SAFE, RELIABLE, QUICK-DISCONNECT, KEYED LOCKING CONNECTORS

# SNAP-LUG QUICK-DISCONNECT POWER CONNECTORS

Secure Click-to-Lock Connector, Easy to Install



## EASY TO USE

- Snap on/push to release; no tools required
- Color-coded and keyed connector prevents reverse polarity
- Enables connections in confined spaces

## SAFE AND SECURE

- Provides a touch-proof connection that helps prevent accidental shock under power
- Locking feature prevents unintentional disconnect in challenging environments
- Sealed interface prevents contamination

## DURABLE

- Vibration resistant
- Single-piece installation
- No risk of foreign object damage from nuts and washers
- Click-to-lock feature reduces risk of partial mating

## The Next Generation of Terminal Lugs

Snap-Lug quick-disconnect power connectors from TE Connectivity (TE) are ruggedized power disconnects designed to provide a quick method for interconnecting heavy gauge power cables to bus bars, relays, power panels, and similar applications in Aerospace, Defense, and Marine, and other harsh environment applications. These connectors have been engineered to replace traditional terminal lugs with safe, reliable, quick-disconnect, keyed locking connectors, enabling applied cost savings.

## Easy to Use

No special tools are needed to install Snap-Lug connectors, and installation in confined spaces is a snap. Single piece installation means there are no nuts and washers that can cause foreign object damage. Color-coded and keyed connectors aids identification and reduces the chance of reversing polarity. Even confined spaces aren't a problem, saving time and effort on installation in the toughest environments.

## Safe, Reliable and Efficient

The Snap-Lug connector's shrouded design provides a touch-proof connection that helps prevent accidental shock incidents when under power. The connectors are designed to replace traditional terminal lugs with a fast, easy-to-install connector that avoids the time-consuming process of affixing lugs to threaded posts with a torque wrench. As an added advantage, this tool-less design enables a safe, reliable power connection in space-constrained applications. Thus, installation and maintenance costs can be significantly reduced, with reliability and safety greatly improved.

## MATERIALS

- **Housing, Key and Release Button:** High-temperature thermoplastic
- **Socket Body:** Tin-plated copper alloy
- **Louver Band:** Silver-plated copper alloy
- **Post Contact:** Silver-plated copper alloy

## ENVIRONMENTAL/MECHANICAL

- **Operating Temperature Range:** -65°C to +150°C
- **Mating Cycles:** 500
- **Vibration:** MIL-STD-1344, Condition V, Test D
- **Mechanical Shock:** MIL-STD-810G, Method 516.6
- **Flammability Rating:** UL 94V-O
- **Temperature Rise vs. Current:** 30°C max.
- **Connector Pull Testing:** 125 lbs. max. when mated
- **Crimp Tensile Pull Testing:**
  - 1/0 AWG:** 700 lbs.
  - 2/0 AWG:** 750 lbs.
  - 3/0 AWG:** 825 lbs.



## ELECTRICAL PERFORMANCE

- **Voltage Rating:** 1500 VAC
- **Contact Resistance:** 0.1 mΩ initial; 0.2 mΩ final
- **Dielectric Withstanding Voltage:** 1500 V<sub>rms</sub> at sea level
- **Voltage Drop:** 35 mV max., initial; 60 mV max., final
- **Current Ratings:**  
(at 30°C T-Rise, Max.)  
**1/0 AWG:** 150 A  
**2/0 AWG:** 200 A  
**3/0 AWG:** 250 A



## SPECIFICATIONS

- **Product Specification:** 108-32083
- **Application Specification:** 114-32130
- **Instructional Documentation:** 408-32183
- **Qualification Test Report:** 501-134053

## APPLICATIONS

- Battery Terminal Connections
- Bus Bar Attachments
- Relay Connections
- Power Panel Feeder/  
Distribution Lines
- Bulkhead Power Feedthroughs
- Terminal Block Connections
- Grounding/Grounding Strap  
Connections

## Part Numbering/Ordering Information

Type	Wire Size (AWG)	Yellow	Blue	Red	Black
Socket Kit	1/0, 2/0	2226742-1	2226742-2	2226742-3	2226742-4
	3/0	2828522-5	2828522-6	2828522-7	2828522-8
Pin Kit	—	2226744-5	2226744-6	2226744-7	2226744-8

## Tooling

Conductor Size (AWG)	Pico Crimp Tool	Locator	Crimp Head
1/0, 2/0	500-D-EC	10345	514DA-6742
3/0			514DA-6743

## LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit [www.te.com/industrial](http://www.te.com/industrial) to chat with a Product Information Specialist.

## Technical Support

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Consult TE for the latest dimensions and design specifications.

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