Glenair UniPower™
Power Distribution Connectors
Safe, Rugged, and Reliable Connectors for Mobile Generators and Power Distribution Systems
Glenair UniPower™ Connectors provide reliable interconnection between power generation and distribution systems and high-powered equipment such as three-phase motors, concert sound systems, lighting panels, carnival rides and municipal emergency power systems. The color-coded plastic bodies are fire and high impact resistant and are also watertight when mated.

Typical applications include open air concerts, theme parks, sporting events, construction sites, remote television broadcasts, and trade shows.
Glenair UniPower™: Safe, Rugged, and Reliable Power Distribution Connectors

Power Connectors for Industry, Sound and Show Business

UniPower™ is a single pole electrical connector used by the entertainment, construction and power utility industries for temporary high current applications. Glenair UniPower™ Power Distribution Connectors provide safe and reliable power distribution connections, typically in three-phase or other polyphase power distribution systems. The connectors are supplied in four formats for standard daisy chain cabling: Panel Drain, Panel Source, Line Drain and Line Source. Supplied in 400A (set-screw) and 800A (Crimp) versions, these shock, moisture and impact resistant connectors are ideally suited for all high current applications including three phase motors, generators, lighting distribution panels, and temporary municipal power supplies.

Color Coded for Three Phase Applications

UniPower™ power connectors are designed for single phase and much more commonly three phase applications. Each connector format is available in color-coded versions corresponding to industry standards for three phase systems: L1, L2, L3, Ground (G), and Neutral (N). Conductors of a three phase system are usually identified by a color code, to allow for balanced loading and to assure the correct phase rotation for induction motors. Colors used vary from country to country, and may vary even within a single installation. Glenair UniPower™ Power Connectors are color coded according to industry standards and common practice in the U.S., UK and Europe. New "harmonized" color coding, per IEEE BS7671:2001 Amendment No. 2, is also available for pan-European applications.

Easy Termination and Assembly

UniPower™ power connectors utilize industry standard crimp tools, dies and other assembly aids for proper termination and assembly of cables and connectors. Depending on application requirements, additional tools such as cable strippers, cotter presses, strap wrenches or other tools may be needed. One specialized tool is required for all applications: A lock pin release key which is used to disengage the spring loaded pin which prevents accidental unmating during use.

Glenair is able to supply the complete range of tooling as well as termination instructions for most standard installations.

Available Now

Glenair is well know throughout the connector industry for fast turnaround and delivery on high-performance interconnect components. Our UniPower™ power connectors are no exception. We are able to offer extraordinarily fast service on orders throughout Europe, the UK and in North America. Please visit us at www.glenair.com for complete order information.
**Glenair UniPower™ Product Specifications**

**Glenair UniPower™ single contact connectors** are qualified in both the EU and U.S. for use in portable power generation and distribution systems. This table summarizes the baseline product specifications for connectors equipped with crimp, set screw and threaded post contacts.

<table>
<thead>
<tr>
<th><strong>Color Coding</strong></th>
<th><strong>Area</strong></th>
<th>Earth</th>
<th>Neutral</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>Green</td>
<td>White</td>
<td>Black</td>
<td>Red</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>Europe</td>
<td>Green</td>
<td>Blue</td>
<td>Brown</td>
<td>Black</td>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>UK</td>
<td>Green</td>
<td>Black</td>
<td>Red</td>
<td>Yellow</td>
<td>Blue</td>
<td></td>
</tr>
</tbody>
</table>

**Formats**
- Panel Drain, Panel Source, Line Drain, and Line Source

**Cable Section**
- Crimp Contact Version: 300 mm² max; Set Screw Version: 120 mm² max

**Contact Types**
- Crimp, Set Screw or Threaded Post (Panel Versions Only)

**Contact Retention/Extraction System**
- Drive Pin with Secondary Lock

**Mating Method**
- Polarization Keyways with Lock Pins

**Mating Cycles**
- 500

**Layout**
- Single Contact with Finger Touch Insulating Tip

**Maximum Current Rating**
- 400A (120 mm² Set Screw), or 800A (300 mm² Crimp)

**Maximum Rated Voltage to Ground**
- 2KVAC; 3KVDC

**Test Voltage**
- 8.000 Vac

**Minimum Insulating Resistance**
- $>5 \times 10^3$ MΩ at 500 Vac

**Operating Temperature Range**
- -30°C to +125°C

**Flammability**
- UL 94 VO

**Shell Material**
- Thermoplastic Resin

**Environmental Resistance**
- Watertight in Mated Condition to IP67

**Safety Features**
- Mechanical and Color-Coded Mis-Mate Protection; Finger-Proof Contact Nose

**Shell Colors**
- Green, Black, Red, Yellow, Blue, Brown, White, and Grey

**Accessories**
- Compression Sleeves, Lock Pin Release Key, and Protective Covers

**Crimp Tools**
- Industry Standard Crimp Tools and Dies Available for All Crimp, Set Screw and Panel Mount Terminations. Part Numbers:
  - 2702010014 CC300P and 702010015 CC300S, 300mmq with Crimp Tool M.105013 and Jaw M.112024
  - 2702010004 CC240P and 2702010005 CC240S, 250mmq with Crimp Tool M.105013 and Jaw M.112018
Glenair UniPower™ Product Specifications

Connector Dimensions

<table>
<thead>
<tr>
<th>Panel Drain</th>
<th>Line Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.490 (37.94)</td>
<td>2.228 (56.60) SQ</td>
</tr>
<tr>
<td>1.220 (31.00)</td>
<td>2.067 (52.60)</td>
</tr>
<tr>
<td>0.969 (24.60)</td>
<td>2.362 (60.00)</td>
</tr>
<tr>
<td>0.443 (12.70)</td>
<td>6.299 (160.00)</td>
</tr>
<tr>
<td>0.500 (12.70)</td>
<td>6.665 (170.00)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel Source</th>
<th>Line Drain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.721 (43.71)</td>
<td>7.087 (180.00)</td>
</tr>
<tr>
<td>1.220 (31.00)</td>
<td>7.480 (190.00)</td>
</tr>
<tr>
<td>1.004 (24.60)</td>
<td></td>
</tr>
<tr>
<td>0.500 (12.70)</td>
<td></td>
</tr>
</tbody>
</table>

Panel Cut-Out Dimensions

<table>
<thead>
<tr>
<th>Panel Source Cut-Out</th>
<th>Panel Drain Cut-Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.730 (44.0)</td>
<td>1.850 (47.0)</td>
</tr>
<tr>
<td>1.67 (42.5)</td>
<td>1.67 (42.5)</td>
</tr>
<tr>
<td>4X 0.217 (5.50)</td>
<td>4X 0.217 (5.50)</td>
</tr>
</tbody>
</table>

Metric Dimensions (mm) are in parentheses
Connector Formats and Contacts

Line Source

Glenair UniPower™ line source connectors are available in 400A and 800A ratings, and feature rigid male contacts with a dielectric cover to prevent accidental shock. A secondary locking pin slot ensures connector pairs will stay mated–free from accidental decoupling. Cable sealing glands protect against environmental damage to contact terminations. Finally, a rugged nylon cotter pin secures everything in place, for long-term, reliable power connectivity for even the most challenging of applications.

The 400A version allows users to terminate a wide range of cables, from 25mm$^2$ to 120mm$^2$, by means of a reduction sleeve. Simply tightening the two set screws atop the contact fastens the reducer onto the wire–providing complete versatility in the selection of cable and wire for power system applications.

Line Drain

Glenair UniPower™ line drain connectors are available in 400A and 800A max current ratings, and feature rigid IP2X spring loaded contacts secured firmly in place with rugged nylon cotter pins. Like their source counterparts, shock-resistant insulating tips safeguard users from accidental electrocution.

Standard O-ring and cable sealing glands ensure IP67 environmental rating when connectors are mated for long-term durability and reliability.

Tugged cables or curious hands can't accidentally decouple UniPower™ connector pairs, thanks to a secondary locking pin that securely joins the connectors in the mated position. A secondary remote locking key disengages the mated connectors safely and quickly. Color coded connectors prevent mis-mating and comply with EU, UK and US standards.
Glenair UniPower™ panel source and drain connectors offer complete flexibility in power system device configuration. Choose between source and drain formats, in either 400A or 800A ratings. All panel connectors feature a rigid IP2X ‘finger proof’ dielectric insulating tip to protect users from accidental electrocution.

The panel source connector features a male contact and secondary locking pin slot to prevent accidental cable de-mating due to cable torsion. Panel drain connectors are supplied standard with female contacts that feature an IP2X spring loaded nose and IP67 rated O-ring environmental seal. The connectors are ideally suited for industrial power distribution systems, three-phase motors, concert sound systems and other outdoor, environmental applications.

All panel receptacles are shipped fully assembled. Color coding prevents mis-mating and ensures compliance with EU, UK and US standards.