The AMP family of Commercial Single Line Connectors provides solutions to high-voltage connection problems at low applied cost. The connectors are excellent for commercial application in industrial environments. Ease of application makes them suitable for large-volume production applications. Crimp, snap-in contacts can be machine terminated or hand-tool crimped.

Housings are self-extinguishing plastic, UL recognized, 94V-0 rated, plastic material. Designed to exceed minimum creepage and clearance for specified voltages per applicable international specifications.

Available with or without leads

Maximum flexibility of application through elimination of predetermined lead lengths

Machine applied terminations provide for lowest applied cost.

Product Facts
- All parts made of UL Recognized, 94V-0 rated, plastic material
- Designed to exceed minimum creepage and clearance for specified voltages per applicable international specifications
- Available with or without leads
- Maximum flexibility of application through elimination of predetermined lead lengths
- Machine applied terminations provide for lowest applied cost

The AMP family of Commercial Single Line Connectors provides solutions to high-voltage connection problems at low applied cost. The connectors are excellent for commercial application in industrial environments. Ease of application makes them suitable for large-volume production applications. Crimp, snap-in contacts can be machine terminated or hand-tool crimped.

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Available with or without leads

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Machine applied terminations provide for lowest applied cost.

Performance Specifications

All Series
Altitude — Sea level to 10,000 feet [3048 m]
Temperature — 59°F to +185°F [15°C to +85°C]
Product Specification — 108-36034

10 KVDC Connectors
Voltage — 10 KVDC
Current — 5 amperes, continuous, rms
Dielectric Withstanding Test — 15 KVDC for 3 minutes at sea level, 77°F [25°C]
Instruction Sheet — Part Number 867443-1

20 KVDC Connectors
Voltage — 8 KVAC, rms, 60 Hz; 20 KVDC
Current — 7.5 amperes, continuous, rms
Dielectric Withstanding Test — 12 KVAC, rms, 60 Hz for 3 minutes at sea level, 77°F [25°C]; 30 KVDC for 3 minutes at sea level, 77°F [25°C]
Instruction Sheets — Plugs — Part Number 862749-1
Receptacles — Part Number 862755-1

30 KVDC Connectors
Voltage — 12 KVAC, rms, 60 Hz; 30 KVDC
Current — 25 amperes, continuous, rms
Dielectric Withstanding Test — 16 KVAC, rms, 60 Hz for 3 minutes at sea level, 77°F [25°C]; 40 KVDC for 3 minutes at sea level, 77°F [25°C]
Tyco Electronics

LGH High Voltage Connectors

Commercial Single Line 10 KVDC Connectors

**Plug Kits**

<table>
<thead>
<tr>
<th>Voltage Rating</th>
<th>Description</th>
<th>Wire Size</th>
<th>Max. Ins. Dia.</th>
<th>Contact Type</th>
<th>Part Number</th>
<th>Tooling Part Number</th>
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<tr>
<td>10 KVDC</td>
<td>Plug Kits*</td>
<td>20-24</td>
<td>0.2-0.6</td>
<td>.105 Type XI Socket</td>
<td>867157-1</td>
<td>91544-1 91038-3</td>
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<td>Receptacle Kit*</td>
<td>20-24</td>
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*Contact included with kit.

**Recommended Wire Preparation**

(Ref. Socket Contact Part Number 203802-6)

- **Receptacle Kit**

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Catalog 1308940
Revised 8-06
www.tycoelectronics.com
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 52-55-1106-0800
C. America: 57-1-254-4444
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341
### LGH High Voltage Connectors

#### Commercial Single Line 20 KVDC Connectors

**Plug Kits**

These plugs mate with receptacles shown on this page.

**Bulkhead-Mounted Receptacle Kits**

> Note: If bulkhead and mounting hardware are metal at ground potential, the back end of the receptacle must be protected against arc-over and breakdown.

**Free-Hanging Receptacle Kits**

**Bulkhead-Mounted Receptacle Kits With Rear Insulation Collar**

**Recommended Panel Cutout for Bulkhead Mounting**

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<table>
<thead>
<tr>
<th>Voltage Rating</th>
<th>Description</th>
<th>Wire Size</th>
<th>Max. Ins. Dia.</th>
<th>Contact Part Number</th>
<th>Kit Part Number</th>
<th>RoHS Kit Part Number</th>
<th>Tooling Part Number</th>
<th>Hand Tool</th>
<th>Extraction Tool</th>
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* Contact included with kit.  ** Crimp-on Contacts.
## LGH High Voltage Connectors

### Commercial Single Line 30 KVDC Connectors

#### Plug Kits

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<tr>
<th>Voltage Rating</th>
<th>Description</th>
<th>Wire Size</th>
<th>Max. Ins. Dia.</th>
<th>Contact Part Number</th>
<th>Kit Part Number</th>
<th>Tooling Part Number</th>
<th>Tooling Part Number</th>
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<td>Plug Kits*</td>
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* Contact included with kit.

** Die Set for Hand Tool Part Number 69710-1 or 626 Pneumatic Tool System.

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### Recommended Panel Cutout for Bulkhead Mounting

**Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.**

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### Catalog 1308940

**Revision: 8-06**

**www.tycoelectronics.com**