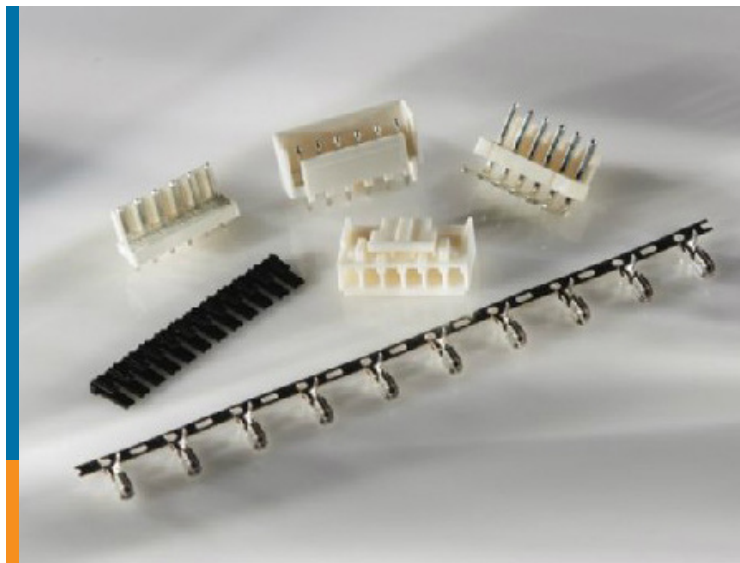


Introducing  
**GLOW WIRE  
TEST COMPLIANT  
ECONOMY POWER II  
(EP II) CONNECTORS  
AND TPA DEVICES**



# Economy Power II

## Connectors and TPA devices

TE Connectivity (TE) offers Economy Power II (EP II) Glow Wire connectors in many different styles and configurations to meet safety and environmental requirements requested by the home appliances industry.

Several connector housing and header styles and configurations are available in Glow Wire compatible material that also meets UL 94 V-0 requirements. The use of Glow Wire test compliant components may allow users to reduce the time and expense of end-product testing associated with Glow Wire ignition and Glow Wire flammability index.

### Electrical

- Voltage rating: 600 VAC
- Current rating: 11.5 A

### Mechanical

- Position: 2 to 12 single row wire-to-board
- Wire size: 0.26 to 1.33 mm<sup>2</sup> (22 to 16 AWG)
- Centerline: .156" (3.96 mm)
- Operating temperature: -55 to 105°C
- Selectively loaded headers available upon request

### Materials

- Glow Wire products Compliant to Glow Wire test required by IEC/EN 60335-1 5th Edition: Household and Similar Appliances - Safety and UL 94 V-0
  - Comply with Glow Wire flammability index (GWFI) 850°C at least, according to IEC 60335-1, Glow Wire flammability test for end-products (GWEPT) 750°C No Flame, according to IEC 60335-1 and UL 94 V-0
- Contacts: Tin plated copper alloy

### Standards

- UL recognized E28476
- Application specification number: 114-13265

### Applications

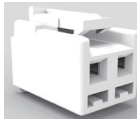
- Household appliances
- HVAC
- Industrial machinery (e.g. control boards)
- Products can be used for global applications where compliance to IEC 60335-1 and UL 94 V-0 is required.

### Key Features

- .156" centerline (3.96mm)
- Lance-less terminal
- Wire size: 0.26 to 1.33 mm<sup>2</sup> 22 to 16 AWG
- Voltage up to 600 VAC
- Current up to 11.5 A
- Housing locking latch
- Polarization tabs
- Asymmetrical terminals can only be loaded one way
- Breakaway style or discrete Terminal Position Assurance (TPA) devices
- Probe tip windows for continuity testing
- Contact lubrication
- Parts molded in various colors are available upon request
- Glow Wire products compliant to Glow Wire test required by IEC/EN 60335-1 5th Edition: Household and Similar Appliances - Safety and UL 94 V-0


## Product Offering

### Housing

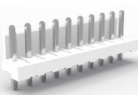

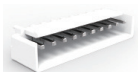

| Product Image  | Type               | Style      | Flammability                       | Part Number |    |    |    |    |    |    |    |    |      |      |      |  |
|--|--------------------|------------|------------------------------------|-------------|----|----|----|----|----|----|----|----|------|------|------|--|
|  |                    |            |                                    | Position    | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10   | 11   | 12   |  |
|  | Receptacle Housing | Single Row | UL 94 V-0                          | X-2132813-Y | -2 |    |    |    |    |    |    |    |      |      |      |  |
|  |                    |            | UL 94 V-0                          | X-2132781-Y |    | -3 | -4 | -5 | -6 | -7 | -8 | -9 | 1--0 | 1--1 | 1--2 |  |
|  |                    |            | GWT acc. IEC 60335-1 and UL 94 V-0 | X-1744416-Y | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -9 | 1--0 | 1--1 | 1--2 |  |

\*Colored housings are available upon request. For more information, contact TE sales representative.


### Terminal Position Assurance (TPA) - Optional

| Product Image  | Type                              | Style                 | Flammability and TPA Type | Number of Positions |    |    |    |    |    |    |    |    |      |      |    |      |
|--|-----------------------------------|-----------------------|---------------------------|---------------------|----|----|----|----|----|----|----|----|------|------|----|------|
|  |                                   |                       |                           | Position            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10   | 11   | 12 |      |
|  | Terminal Position Assurance (TPA) | Contact Locking Plate | UL 94 V-0 Breakaway       | X-2132782-Y         |    |    |    |    |    |    |    |    |      |      |    | 1--2 |
|  |                                   |                       | UL 94 V-0 Discrete        | X-1744544-Y         | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -9 | 1--0 | 1--1 |    |      |

### Header

| Product Image  | Type                                     | Style      | Flammability                       | Part Number |      |      |      |      |      |      |      |      |      |      |      |      |
|--|--|------------|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |  |            |                                    | Position    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |      |
|   | Vertical Header<br>No orientation post   | Single Row | UL 94 V-0                          | X-1123723-Y | 1--2 | 1--3 | 1--4 | 1--5 | 1--6 | 1--7 | 1--8 | 1--9 | 1--0 | 1--1 |      |      |
|  |  |            | UL 94 V-0                          | X-647689-Y  |      |      |      |      |      |      |      |      |      |      |      | 1--2 |
|  |  |            | GWT acc. IEC 60335-1 and UL 94 V-0 | X-1744489-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  | Vertical Header<br>With orientation post | Single Row | UL 94 V-0                          | X-1744057-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  |  |            | GWT acc. IEC 60335-1 and UL 94 V-0 | X-1744429-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  | Shrouded Header                          | Single Row | UL 94 V-0                          | X-1877285-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  |  |            | GWT acc. IEC 60335-1 and UL 94 V-2 | X-1744427-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  | Right Angle Header                       | Single Row | UL-94 V-0                          | X-647676-Y  | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |
|  |  |            | GWT acc. IEC 60335-1 and UL 94 V-0 | X-1744428-Y | -2   | -3   | -4   | -5   | -6   | -7   | -8   | -9   | 1--0 | 1--1 | 1--2 |      |

### Contact

| Product Image  | Type  | Style              | Part Number |
|--|---|--------------------|-------------|
|  | Phos Bronze Pre-Tin Contact<br>18-22 AWG<br>(0.89-0.30mm <sup>2</sup> ) | Receptacle Contact | 1744144-1   |
|  | Phos Bronze Pre-Tin Contact<br>16-20 AWG<br>(1.4-0.5mm <sup>2</sup> )   | Receptacle Contact | 1744201-1   |

#### Part Number Ordering: Example for X-1744416-Y Housing\*

-2 thru -9

Substitute dash number listed for "Y", therefore a -2 signifies PN 174416-2

1--0 thru 1--2

Substitute first number for "X" and second number listed for "Y", therefore 1--2 signifies PN

1-1744416-2

\*Follow same numbering scheme throughout for other part numbers listed

### Application Tooling

| Part Number |   |
|-------------|---|
| 90720-1     | Straight Action Hand Tool                   |
| 91337-1     | PRO-CRIMPER III Hand Tool Assembly          |
| 2119118-1   |   |
| 354500-[]   | AMP-O-LECTRIC Model "G" Terminating Machine |
| 1725950-[]  | AMP 3/K-40 Press                            |
| 528324-[]   | Komax Gamma 333 PC                          |
| 1385286-[]  | Side Feed HDM Applicator                    |
| 91579-1     | Side  |

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### te.com

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