



Quick Reference Guide **FASTON** Terminals

Speed of application – uniform reliability – low per-line cost. These advantages have made TE's FASTON products the industry leader in the appliance and automotive industries. A complete line of application tooling has been developed specifically for these terminals. Crimping dimensions for each terminal are precisely controlled so all connections are identical in performance.


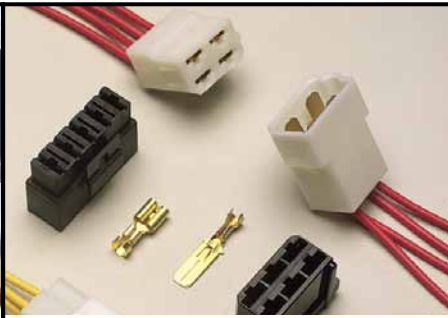


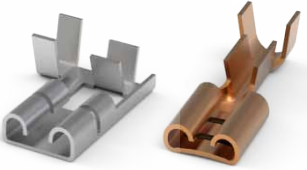


Key Features

- Insulated and uninsulated
- Straight and flag configurations
- Stress relieved receptacles
- Various plating options
- Positive Lock solutions
- High temperature solutions
- Application tooling

Applications

- Washing machines
- Dryers
- Electric and Gas Ranges
- Wall Ovens
- Dishwashers
- Refrigeration
- HVAC
- Automotive



| | | | |
|----------------------------|---|---|---|
| Product Family |  <p>FASTON Receptacles Tabs & Connectors</p> |  <p>FASTIN-FASTON Receptacles Tabs & Connectors</p> |  <p>Positive Lock Receptacles & Connectors</p> |
| Product Description | <p>FASTON is a product line designed for quick connections. It offers speed application, quality and uniform reliability.</p> <ul style="list-style-type: none"> • straight / flag, crimp / PCB / board mount versions • receptacle / tab combinations available • size 2.8/4.8/5.2/6.3/9.5mm, .110"/.187"/.205"/.250"/.312" • available with or without insulation support | <p>FASTIN-FASTON connectors offer the advantage of the FASTON technology in multiple applications. Receptacle and tabs fully comply with FASTON products. Differentiated only by the addition of a locking lance to help ensure firm retention of contacts when snapped into housings.</p> | <p>Positive Lock receptacles are specifically designed to provide ease of assembly and secure retention to mating tabs. These unique features are attainable by the reduced insertion force and locking dimple. The receptacle locks onto mating tabs containing holes and is removable only by deflecting an integrally designed depressor prior to withdrawal.</p> |
| Product Selection | <p>1) Select Series - Tab width onto which the Receptacle is being plugged FASTON products are grouped according to tab width dimensions in series:</p> <ul style="list-style-type: none"> 9.5mm ("375" Series) 6.3mm ("250" Series) 5.2mm ("205" Series) 4.8mm ("187" Series) 2.8mm ("110" Series)  <p>* Receptacle series must match the mating tab width and thickness.</p> <p>2) Select Wire Range - AWG or sqmm</p> <p>3) Select Wire Type & Terminal Orientation (straight or flag), then Crimp Style - Method by which the terminal is applied to the wire</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="224 1368 634 1793"> <p>"F" Crimp</p>  <p>Most Common Crimp Used on Straight and Flag Terminals Offers Optimum Combination of Strength and Conductivity Method of Termination Provides Maximum Resistance to Vibration and Corrosion</p> </div> <div data-bbox="657 1368 1084 1793"> <p>Tab-Lok Crimp</p>  <ul style="list-style-type: none"> • Featured on Flag Terminals • Locking Tab on Wire Barrel is Inserted through a Slot on the Terminal itself </div> <div data-bbox="1107 1368 1528 1793"> <p>"C" Crimp</p>  <p>Featured on Flag Terminals Provides Reliable Electrical and Mechanical Performance with a Minimum Profile</p> </div> </div> <p>4) Select Line - Various configurations having the necessary features to provide a desired interconnect for the application: Premier, Low Insertion Force (LIF), Budget, Economy, Hermetic, Moldable, FASTIN-FASTON, Positive Lock,.....</p> <p>5) Select specific criteria: Plating Requirements (Pre-Tin/Post Plating): Insulated Housing or pre-insulated terminal; Temperature/Environment (Silver, Nickel Plate,.....); Agency Approvals UL/CSA/VDE/.....; Solid Wire (Non-Magnet)</p> | | |

Materials and finishes:

| | | |
|---|---|--|
| Ph. Bronze Plain Phosphor bronze is used in applications where brass would normally be corroded. Ex. ammonias. | Brass Plain Plain brass is used frequently, where applications have optimal environmental conditions | Steel Nickel Plated This combination allows a reliable connection at high temperatures, Ex. Cooking appliances |
| Brass / Ph. Bronze Silver Plated Silver plated connections allow the highest operating temperature and higher current carrying capacity corroded. Ex. ammonias. | Brass / Ph. Bronze Tin Plated Tin plating of receptacle and tab improves operation at higher temperatures, and in addition helps to protect the connection against corrosion. | |

Typical operating conditions(*)

- + 90°C Plain
- +110°C Tin plated
- +130°C Silver plated
- +250°C Nickel plated steel

(*) allowable connection temperature is the ambient temperature plus temperature rise of the terminal at normal operating conditions; for special applications / requests please contact TE Engineering

| FASTON Receptacles, Tabs and Housings | Type | Orientation | Part # | Mating interface | Wire Range mm [AWG] | Insulation Diameter mm [inches] | Material and Finish |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------|---------------------|
| | Recept | Straight | 444334-1 | 6.35x0.81 [.250x.032] | 0.30-0.90 [22-18] | 2.30-3.30 [.091-.130] | Brass |
| | | | 444334-2 | 6.35x0.81 [.250x.032] | 0.30-0.90 [22-18] | 2.30-3.30 [.091-.130] | TPBR |
| | | | 444334-3 | 6.35x0.81 [.250x.032] | 0.30-0.90 [22-18] | 2.30-3.30 [.091-.130] | Brass |
| | | | 880683-1 | 6.35x0.81 [.250x.032] | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | Brass |
| | | | 444335-1 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 3.00-4.29 [.118-.169] | Brass |
| | | | 444335-3 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 3.00-4.29 [.118-.169] | Brass |
| | | | 881623-1 | 4.75x0.81 [.187x.032] | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | Brass |
| | | | 881624-1 | 4.75x0.81 [.187x.032] | 1.00-2.50 [17-13] | 2.70-4.00 [.106-.157] | Brass |
| | | | 881623-8 | 4.75x0.51 [.187x.020] | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | Brass |
| 626042-1 | 2.80x0.51 [.110x.020] | 0.50-1.50 [20-15] | 2.03-3.04 [.080-.120] | Brass | | | |
| 626412-1 | Flag | 4.75x0.51 [.187x.020] | 0.50-1.30 [20-16] | 2.30-3.30 [.091-.130] | Brass | | |
| Tab | Straight | 626377-1 | 6.35x0.81 [.250x.032] | 0.30-0.90 [22-18] | 2.00-3.00 [.079-.118] | Brass | |
| | | 880633-1 | 2.80x0.51 [.110x.020] | 0.50-1.00 [20-17] | 2.00-2.70 [.079-.106] | Brass | |
| Type | Orientation | Part # | Interface | Positions | Color | Material | |
| Recept Housing | Straight | 1-735075-0 | 6.35 [.250] | 1 | Natural | 94V-2 Nylon | |
| | | 1-735075-5 | 6.35 [.250] | 1 | Black | 94V-2 Nylon | |
| | | 1-880488-1 | 4.75 [.187] | 1 | Natural | Nylon | |
| Fastin-Faston Receptacles, Tabs and Housings | Type | Orientation | Part # | Mating interface | Wire Range mm [AWG] | Insulation Diameter mm [inches] | Material and Finish |
| | Recept | Straight | 735222-1 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 3.00-4.30 [.118-.169] | Brass |
| | Recept | Straight | 735222-2 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 3.00-4.30 [.118-.169] | TPBR |
| | Recept | Straight | 1989879-1 | 6.35x0.81 [.250x.032] | 0.30-1.00 [22-17] | 2.30-3.30 [.091-.130] | Brass |
| | Recept | Straight | 626094-2 | 6.35x0.81 [.250x.032] | 0.50-1.00 [20-17] | 2.28-3.30 [.090-.130] | TPBR |
| | Recept | Straight | 881606-2 | 9.50x1.20 [.375x.047] | 4.00-6.00 [11-9] | 4.00-5.20 [.157-.205] | TPBR |
| | Tab | Straight | 880688-1 | .250 | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | Brass |
| | Tab | Straight | 880636-1 | .250 | 1.00-2.50 [17-13] | 2.70-3.70 [.106-.146] | Brass |
| | Tab | Straight | 880636-2 | .250 | 1.00-2.50 [17-13] | 2.70-3.70 [.106-.146] | TPBR |
| | Tab | Straight | 1599052-1 | .250 | 4.00-6.00 [11-9] | 3.20-4.30 [.126-.169] | PhBr |
| Type | Orientation | Part # | Interface | Positions | Color | Material | |
| Housing | 3 Way T | 880573 | 6.35 [.250] | 3 | Natural | 94V-2 Nylon | |
| Tab Hsg | Straight | 880309-1 | 6.35 [.250] | 1 | Natural | 94V-2 Nylon | |
| Tab Hsg | 2 Way T | 880310-1 | 6.35 [.250] | 2 | Natural | 94V-2 Nylon | |
| Positive Lock Receptacles | Type | Line | Part # | Mating interface | Wire Range mm [AWG] | Insulation Diameter mm [inches] | Material and Finish |
| | Recept | Mark I | 880646-1 | 6.35x0.81 [.250x.032] | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | Brass |
| | Recept | Mark I | 880646-5 | 6.35x0.81 [.250x.032] | 0.50-1.00 [20-17] | 2.00-3.30 [.079-.130] | TPBR |
| | Recept | Mark I | 880645-1 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 2.70-4.00 [.106-.157] | Brass |
| | Recept | Mark I | 880645-6 | 6.35x0.81 [.250x.032] | 1.00-2.50 [17-13] | 2.70-4.00 [.106-.157] | TPBR |
| | Recept | Mark II | 626581-1 | 6.35x0.81 [.250x.032] | 0.50-1.50 [20-15] | 2.10-2.90 [.083-.114] | Brass |
| Recept | Mark III | 1380088-1 | 6.35x0.81 [.250x.032] | 0.50-1.00 [20-17] | 2.00-2.70 [.079-.106] | Brass | |

Current Carrying Capacity

| | |
|--------------------|--|
| size 2.8mm | 14A max with 1.5mm ² wire size |
| size 4.8mm / 5.2mm | 20A max with 2.5mm ² wire size |
| size 6.3mm | 28A max with 4 or 6mm ² wire size |
| size 9.5mm | 50A max with 10mm ² wire size |

Plastic Insulation Material

The following list shows various plastics and their application temperatures.

| | |
|--|-------|
| High temp. polyamide (nylon) | 150°C |
| Polyamide, (nylon) | 125°C |
| Polypropylene | 105°C |
| Polyester. | 90°C |
| Polyethylene. | 75°C |
| A.B.S. | 70°C |
| PVC. | 60°C |

Note: For information related to Glow Wire Temperature ratings and specific product temperatures please contact TE Engineering.

www.te.com/products/faston

FOR MORE INFORMATION

TE Technical Support Center

| | | | | | |
|-----------------|----------------------|-------------------|-----------------------|-----------------|---------------------|
| Austria: | +43 (0) 1-9056-0 | Germany: | +49 (0) 6151-607-1999 | Nordic: | +46 (0) 8-5072-5000 |
| Baltic Regions: | +44 (0) 1-382508080 | Italy: | +39 (0) 011-401-2111 | Spain/Portugal: | +34 (0) 932-910-330 |
| Canada: | +1 (800) 522-6752 | Latin/S. America: | +54 (0) 11-4733-2200 | Switzerland: | +41 (0) 71-447-0447 |
| China: | +86 (0) 400-820-6015 | Mexico: | +52 (0) 55-1106-0800 | UK: | +44 (0) 800-267666 |
| France: | +33 (0) 1-3420-8686 | Netherlands: | +31 (0) 73-6246-999 | USA: | +1 (800) 522-6752 |

For other country number go to te.com/supportcenter

Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree

te.com

© 2012 Tyco Electronics Corporation, a TE Connectivity Ltd. Company. All Rights Reserved.
8-1773465-2 CS 11/2012

Blu-ray™ is a trademark of the Blu-ray Disc Association.

TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks. Other logos, product and/or Company names might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

