

Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs

Product Facts

- One-piece fully insulated premier line FASTON receptacle with insulation crimp helps prevent shock and short hazards
- Designed for correct lead-in of tab
- Designed for full mating with a variety of tab styles including those with shoulders
- Funnel wire entry
- Wire stop
- Visual inspection of crimp and wire brush
- Assemblies are color-coded by wire size
- Assemblies contain wire size and tab size designation
- Mating tab thickness marked on terminal and visible through housing (110 and 187 series)
- Application tooling available to meet production requirements
- Tin plated copper alloy terminals
- UL rated at +105°C
- Terminates 22-14 AWG solid, fused and stranded wire
- Complies with the IEC 380, 601, 950, and UL 1950 requirements for a secondary means of insulation fixing

Performance Capabilities

- Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717 
- Meets CSA C22.2, No.153 specification for quick connect terminals; CSA certified under File No. LR 7189 
- 600-volt application capability (1,000 volts for signs and fixtures)

- Tested by TUV File No. E9071003 as suitable for end product certification to the following standards:

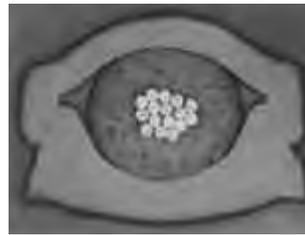
EN 60 950/09.87

DIN IEC 380/VDE 0806/08.81

DIN IEC 601-1 Part 1/VDE 0750 T1/05.82

DIN VDE 0700 T1/02.81

Ultra-Fast Plus fully insulated FASTON receptacles and tabs offer all the advantages of the standard Ultra-Fast product plus an insulation crimp.



Insulation Crimp Cross Section

Ultra-Fast Plus fully insulated FASTON receptacles and tabs preclude the need for costly electrical safety interlocks or special protective shields to help prevent shock hazards. In addition, electrical short circuits from exposed leads are eliminated, even in equipment requiring close contact spacing.

Ultra-Fast Plus FASTON receptacles and tabs are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle/ tab and wire barrel portions of the



housing are molded from type 6/6 nylon material with a +130°C UL temperature rating. The insulation barrel is molded from a premium grade nylon selected to retain the insulation crimp shape. This premium nylon exhibits minimal springback, thus providing actual insulation crimp tensile strength as well as strain relief for applications where extreme wire dressing and/or vibration are present.

The Ultra-Fast Plus FASTON receptacle housing completely encloses a tin plated copper alloy premier FASTON receptacle which has been stress relieved for increased durability and resistance to operator abuse. The FASTON receptacle is recessed sufficiently within the housing to allow its use in 600-volt applications. The receptacle portion of the terminal is designed for positive mating with a variety of tabs, including those with shoulders. The housing has a slotted membrane which is displaced by two tab shoulders allowing proper

engagement of tab and receptacle while maintaining the fully insulated characteristics.

Positive entry and lead-in of the tab is provided by the inner housing wall and the lead-in on the terminal rolls. This permits positive engagement, even in blind mating locations.

The Ultra-Fast Plus FASTON tab housing completely encloses a tin plated copper alloy FASTON tab. The FASTON tab is recessed sufficiently within the housing to allow its use in 600-volt applications. The housing is designed to completely encapsulate the tab and receptacle when the two are mated.

Quality control is easily maintained. The nylon housing is translucent, allowing visual inspection of the termination.

Depending on production requirements, TE provides a complete selection of terminating equipment from hand tools to automatic lead makers.

Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs (Continued)

Ultra-Fast Plus Fully Insulated FASTON Receptacles

Material

Housing — Nylon

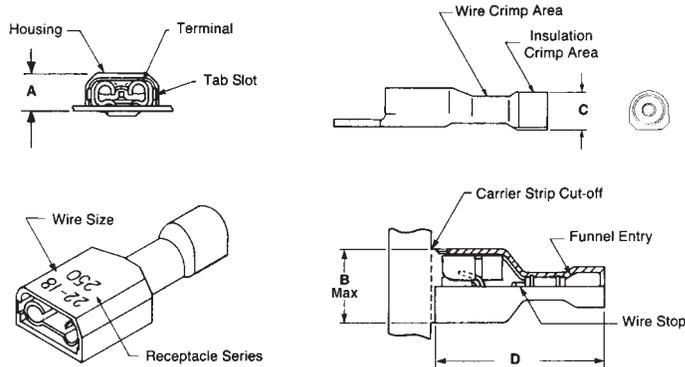
Flammability — UL 94 V-2

Terminal — Tin plated, copper alloy

Color Code (Translucent)

Red — 22-18 AWG

Blue — 16-14 AWG



Description	Wire Range AWG	Ins. Dia. Range	Dimensions				Mating Tab	Terminal Base Material	Part Numbers	
			A	B	C	D			Strip	Loose Piece
.110/.125 Series	22-18	.060-.120 1.52-3.05	.160	.275	.167	.735	.020 x .110/.125 0.51 x 2.79/3.18	Brass	2-520932-2	—
			4.06	6.99	4.24	18.67	.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520979-2	—
.187 Series	22-18	.060-.135 1.52-3.43	.165	.336	.200	.855	.020 x .187 0.51 x 4.75	Brass	2-520401-2	2-520409-2
			4.24	8.53	5.08	21.72	.032 x .187 0.81 x 4.75	Brass	2-520403-2	2-520411-2
	16-14	.090-.160 2.29-4.06	.185	.336	.225	.855	.020 x .187 0.51 x 4.75	Brass	3-520402-2	3-520410-2
			4.70	8.53	5.72	21.72	.032 x .187 0.81 x 4.75	Brass	3-520404-2	3-520412-2
.250 Series	22-18	.060-.135 1.52-3.43	.195	.409	.200	.855	.032 x .250 0.81 x 6.35	Brass	2-520405-2	2-520407-2
			4.95	10.39	5.08	21.72	.032 x .250 0.81 x 6.35	Brass	3-520406-2	3-520408-2
	16-14	.090-.160 2.29-4.06	.195	.409	.225	.855	.032 x .250 0.81 x 6.35	Brass	3-520406-2	3-520408-2

Ultra-Fast Plus Fully Insulated FASTON Tabs

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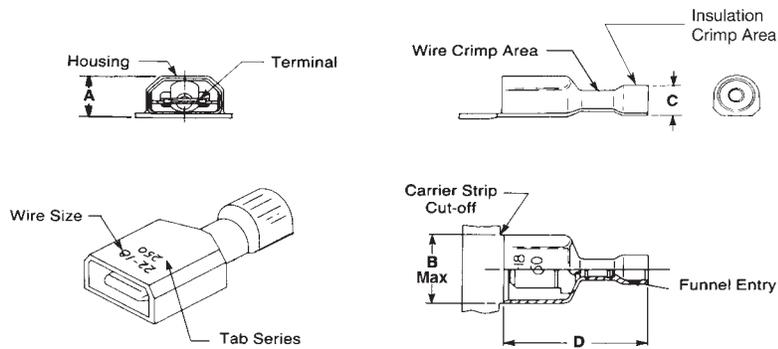
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.187 Series	22-18	.060-.135 1.52-3.43	.250	.488	.205	.793	.020 x .187 0.51 x 4.75	Brass	2-521360-2	—
			6.35	11.38	5.21	20.14	.032 x .187 0.81 x 4.75	Brass	2-521361-2	—
.250 Series	22-18	.060-.135 1.52-3.43	.290	.522	.205	.855	.032 x .250 0.81 x 6.35	Brass	2-521055-2	—
			7.37	13.26	5.21	21.72	.032 x .250 0.81 x 6.35	Brass	3-521057-2	—
	16-14	.090-.160 2.29-4.06	.290	.522	.230	.855	.032 x .250 0.81 x 6.35	Brass	3-521057-2	—
			7.37	13.26	5.84	21.72				

Note: All part numbers are RoHS compliant.