4.8MM (.187) SERIES FASTON RECEPTACLES

FOR MULTI-THICKNESS TABS
MATE WITH 0.5 OR 0.8 MM (.020 OR .032 IN) THICK TABS

PRODUCT DESCRIPTION

TE Connectivity (TE) introduces 4.8 mm (0.187 in) series FASTON receptacle terminals that mate with various thickness tabs. These straight quick-connect crimp receptacles are designed to mate with standard 4.8 x 0.81 mm (0.187 x 0.032 in) or 4.8 x 0.51 mm (0.187 x 0.020 in) tabs with retention holes. The open barrel, F-crimp design is only 15 mm (0.59 in) long, allowing these receptacles to fit where some other straight receptacles will not. The design is based on UL 310 and IEC 61210 (VDE 613) standards and incorporates insulation support. Part number 2293255-1 accommodates 0.5 – 1.50 mm^2 (20 - 16 AWG) wires with 2.3 – 3.3 mm (0.09 - 0.13 in) diameter insulation, while part number 2293895-1 is available for 1.0 – 2.50 mm2 (17 - 14 AWG) wires with 3.0 – 4.3 mm (0.12 - 0.17 in) diameter insulation.

SPECIFICATIONS

- Product Specification: 108-106242
- Application Specification: 114-106242

APPROVALS

- UL recognized, File E66717
- VDE approved, Certificate 40045816

KEY FEATURES

- 4.8 (187) series straight receptacles are broadly used in many applications across various industries
- Given that these receptacles mate with 0.5 or 0.8mm (.020 or .032 in) thick tabs, they simplify design in, procurement and assembly, potentially improving quality through fewer mismatches, and ultimately lowering the cost of quality
- With their compact size of only 15mm long, they fit in confined spaces where other terminals might be too long.
- The compact size means less material utilization, and that can contribute to lower unit cost
- With the two receptacles accepting wire from 0.5 – 2.5mm^2, they support wire sizes used across many applications, and the 2293895-1 receptacle with 2.5mm^2 wire is rated up to 20A
- The terminals are based on UL 310 and IEC 61210 (VDE 613) standards

APPLICATIONS

Small Appliances

Power Tools

Lift equipment

Major Appliances

Air conditioning

Lighting

Automotive and transportation

Industrial machinery and controls

4.8 SERIES FASTON RECEPTACLE FOR MULTI-THICKNESS TABS

TECHNICAL DETAILS

- Electrical
  - Voltage: 250 volts AC
  - Current: 20 amps, maximum, with 2.5mm² wire
- Mechanical
  - Mating Interface: Accommodates 4.8 x 0.81 mm (0.187 x 0.032 in) or 4.8 x 0.51 mm (0.187 x 0.020 in) tabs
  - Orientation: Straight
  - Stock Thickness: 0.32 mm (0.126 in).
  - Wire Size and Insulation Diameter: See table below
  - Crimp style: F crimp
- Material
  - Tin plated brass
- Environment
  - Operating Temperature: 105°C, maximum
- Associated Products
  - Can be used with a range of existing 4.8 (187) series FASTON housings

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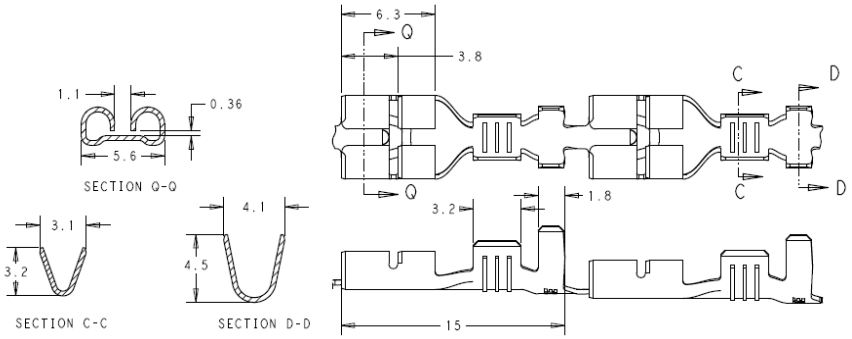
Part Number	Wire Size	Insulation Diameter	Approvals
2293255-1	0.5-1.5 mm² (20-16 AWG)	2.3-3.3 mm (0.09-0.13 in)	VDE, UL
2293895-1	1.0-2.5mm² (17-14 AWG)	3.0-4.3mm (0.119-0.169 in)	N/A

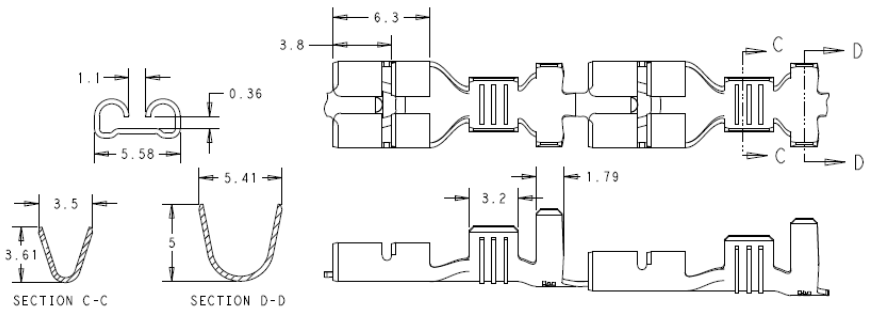
PART NUMBER 2293255-1

DIMENSIONS



PART NUMBER 2293895-1

DIMENSIONS



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Applicator Part Number	Receptacle	Feed	Interface
X-2150081-Y	**2293255-1**	Mechanical or pneumatic	Male applicator adapter post - Atlantic style or Female applicator adapter post - Pacific style
X-2150298-Y	**2293895-1**		
Hand Tool Part Number	**Receptacle**	**Description**	
675930-1	**2293255-1**	Tool frame and die assembly with two crimping chambers. For general repair and maintenance of harness. Suitable for low volume production only.	
	2293895-1		

OCEAN Applicator

Double Action Hand Tool

DESIGN-IN QUESTIONS:

1. Does the use of 4.8 (187) series tabs of various thicknesses cause problems during assembly?
2. Would you like to simplify your bill of materials?
3. Would you be interesting in a product that might help you to reduce your cost of quality?
4. Do you need to mate to 4.8 (187) series tabs in locations where you cannot see them or they are difficult to reach?

If the answers are "yes," TE's 4.8 (187) series FASTON receptacles for multi-thickness tabs may represent a solution for the application. They can mate with either 0.5 or 0.8mm thick tabs, and their compact size allows them to fit where some larger competitive receptacles may not.

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