

## LIF 250 FASTON RECEPTACLE WITH 2D CRIMP

### Utilizing 2D Crimp Technology

TE Connectivity's (TE) new low insertion force (LIF) 250 FASTON receptacle terminal with 2D crimp is designed for a broad range of quick disconnect applications. This new LIF FASTON receptacle requires less than 6 lbs of insertion force while still providing excellent retention force when used with a 0.250 x 0.032 in. FASTON tab. The 2D crimp accommodates wire sizes from 22 to 12AWG using the same applicator while providing electrical and mechanical properties comparable to those of the traditional F crimp. This can reduce the number of part numbers to spec in, buy and inventory; reduce applicator cost and set-up; and improve applicator efficiency. This LIF 250 FASTON receptacle with 2D crimp technology can be used across all industries, where a standard F crimp 250 FASTON receptacle has always been used.

#### KEY FEATURES

- Insertion force is 6 lbs or less when used with a 0.250 x 0.032 in FASTON tab, easing assembly
- One terminal covers many wire sizes, potentially reducing design-in, procurement and inventory cost
- Only a single applicator is required, reducing applicator cost and set-up time
- With only minor setting changes required to accommodate the different wire sizes, applicator efficiency can be improved
- UL recognized, file E66717

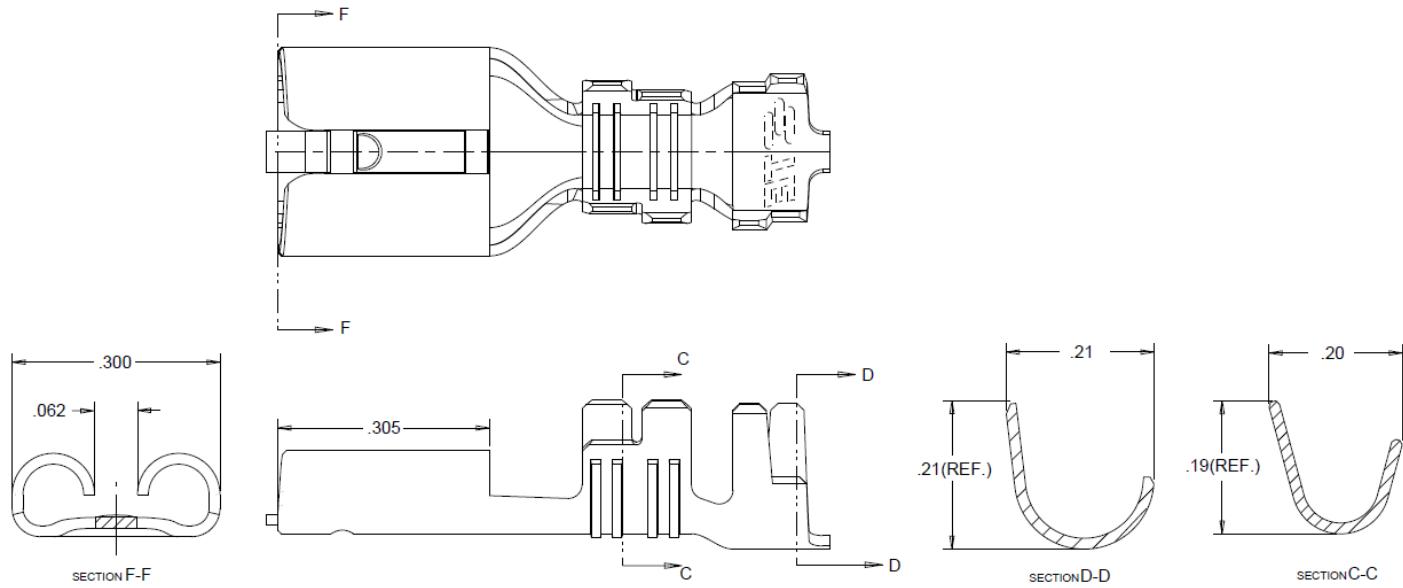
#### RECEPTACLE FEATURES

- Electrical
  - Current: 20 amps, maximum with 12 AWG wire
- Mechanical
  - Maximum Insertion Force: ≤6 lbs. [26.7 N]
  - Mating Interface: 0.250 x 0.032 in [6.35 x 0.81 mm]
  - Orientation: Straight
  - Stock Thickness: 0.157 in [0.399 mm]
  - Wire Range: 22 - 12 AWG [0.32 - 3.29mm<sup>2</sup>] (single wire). Also accommodates two-wire combinations. See Application specification 114-106199 for details
  - Insulation Diameter Range: 0.094 - 0.157 in [0.239 - 0.398 mm]
- Material
  - Tin plated brass
- Environment
  - Operating Temperature: 110°C, maximum
- Associated products
  - Can be used with a wide range of existing 250 x 032 FASTON housings
- Specifications
  - Product Specification 108-106199
  - Application Specification 114-106199

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**2238026-2 OUTLINE DIMENSIONS:** Dimensions are shown in inches.



## LIF 250 FASTON Receptacle with 2D Crimp Application Tooling

One applicator can apply this 250 FASTON terminal with 2D crimp to wire sizes ranging from 22 - 12 AWG. The applicator is an Atlantic-style, OCEAN applicator with mechanical feed, part number 2150640-1. Additionally, for customers who already have other applicators to run 250 x 032 terminals, conversion kits are available that will allow several different types of TE applicators to be used with the new terminal.

There are also hand tools available to apply this terminal. A Standard Die Envelope (SDE) Straight Action hand tool can be used with several die sets and crimp nests to apply the terminal. The hand tool lacks the adjustability that the applicator offers, so different die sets and crimp nests are required to accommodate the different sizes of wire.

	Part Number	Description
LIF 250 FASTON Receptacle with 2D Crimp	2238026-2	2D Crimp Receptacle, FASTON, .250 Series
OCEAN Applicator	2150640-1	OCEAN applicator, Atlantic style, mechanical feed
OCEAN Applicator Conversion Kit	7-2150640-8	Converts OCEAN applicator: 2150016
Heavy Duty Mini (HDM) Applicator Conversion Kit	7-2150640-9	Converts HDM applicators: 466649, 1385262, 1855050, 56739-2, 5672625
Heavy Duty Industrial Applicator Conversion Kit	8-2150640-0	Converts Heavy Duty Industrial applicator: 1239065
Standard Die Envelope Straight Action Hand Tool	2844481-1	SDE die set and 2 crimp nests to apply the terminal to 20 and 22AWG wire
Standard Die Envelope Straight Action Hand Tool	2844482-1	SDE die set and 2 crimp nests to apply the terminal to 16 and 18 AWG wire
Standard Die Envelope Straight Action Hand Tool	2844483-1	SDE die set and 2 crimp nests to apply the terminal to 12 and 14 AWG wire

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**2238026-2 APPLIED TO MULTIPLE WIRE SIZES:** From left to right, 22 AWG, 20 AWG, 18 AWG, 16 AWG, 14 AWG, 12 AWG.



## DESIGN-IN QUESTIONS

1. How many different 250x032 FASTON terminals are you currently using to accommodate your full wire range in production?
2. Would you prefer to use one terminal for your full wire range instead of three different terminals?
3. Do you currently have applicators for all wire ranges or would you like to consider one applicator that can be set up to run 12-22 AWG wires?
4. Are you using any other open barrel terminations with various wire barrel sizes that you would like to consolidate into one terminal?

If the answers to questions 1 through 3 are "yes," TE's LIF 250 FASTON receptacle using 2D crimp is the right solution for you, 2238026-2. If yes to #4, contact your TE representative to quote a new 2D terminal that meets your needs.

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