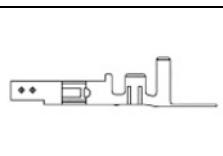


1586841-1 Product Details

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1586841-1

TE Internal Number: 1586841-1



VAL-U-LOK Series Connector System



Product Highlights:

- Wire-to-Board, Wire-to-Board / Wire-to-Wire, Wire-to-Wire
- Applies To Wire/Cable
- Contact
- Glow Wire Rating = Standard Part - Not Glow Wire
- Contact Type = Socket

[View all Features](#)

Quick Links

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- [Search for Tooling](#)
- [Product Feature Selector](#)
- [Contact Us About This Product](#)

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Documentation & Additional Information

Product Drawings:

- [TERMINAL VAL-U-LOK\(TM\) SOCKET \(LOOSE PIECE\)](#) (PDF, English)

Catalog Pages/Data Sheets:

- [SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#) (PDF, English)

Product Specifications:

- [VAL-U-LOK Connectors](#) (PDF, English)

Application Specifications:

- [VAL-U-LOK Series Headers and Connectors](#) (PDF, English)

Instruction Sheets:

- None Available

CAD Files:

- None Available

Related Products:

- [Tooling](#)

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Product Type = Contact
- Termination Method to Wire/Cable = Crimp
- Strain Relief = With
- UL File Number = E28476
- CSA File Number = 208567

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency/Standard = UL, CSA
- UL Rating = Recognized

Electrical Characteristics:

- Contact Current Rating, Max. (A) = 9
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Environmental:

- Operating Temperature (°C [°F]) = -40 – +105 [-40 – +221]

Termination Features:

- Wire/Cable Size (AWG) = 16
- Wire/Cable Size (mm²) = 1.25 – 1.4

Conditions for Usage:

- Applies To = Wire/Cable
- Glow Wire Rating = Standard Part - Not Glow Wire

Dimensions:

- Length (X-Axis) (mm [in]) = 14.55 [0.573]

Operation/Application:

- Application Use = Wire-to-Board, Wire-to-Board / Wire-to-Wire, Wire-to-Wire
- Contact Transmits (Typical Application) = Signal (Data)

Body Features:

- Strain Relief Type = Insulation Crimp

Packaging Features:

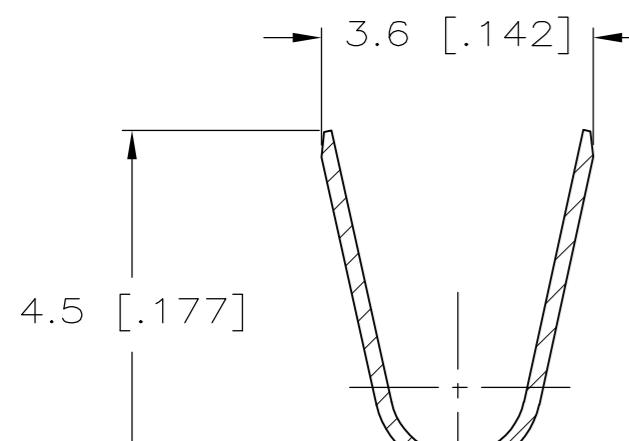
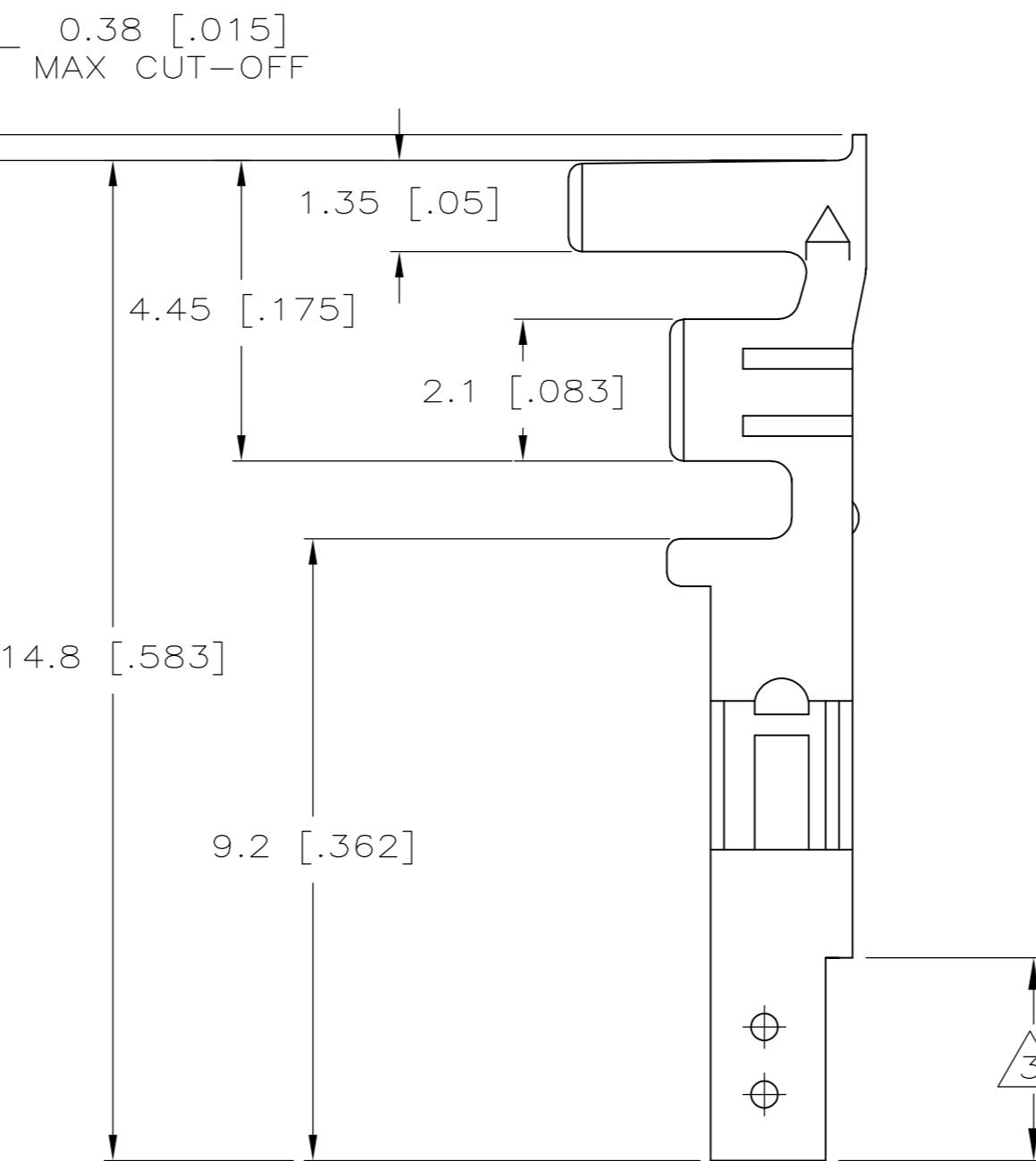
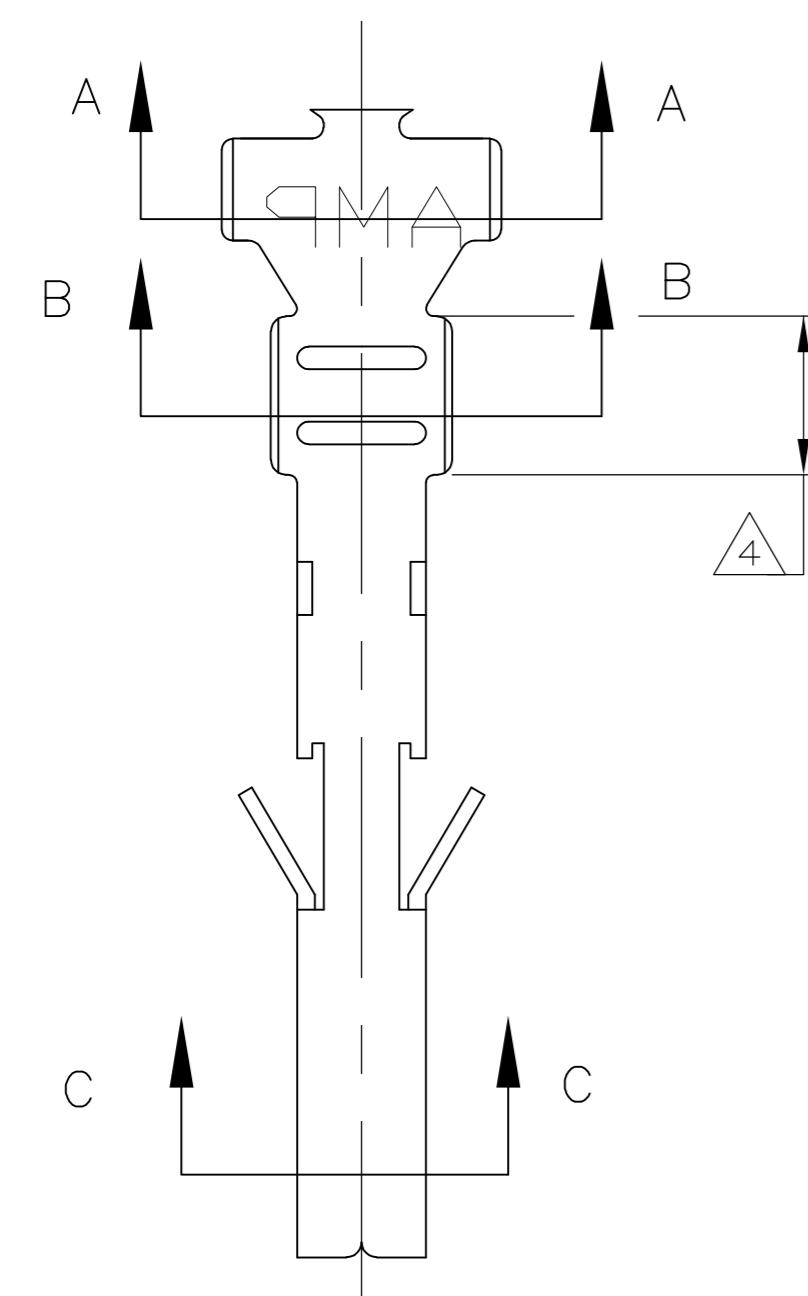
- Packaging Method = Loose Piece/Bulk

Contact Features:

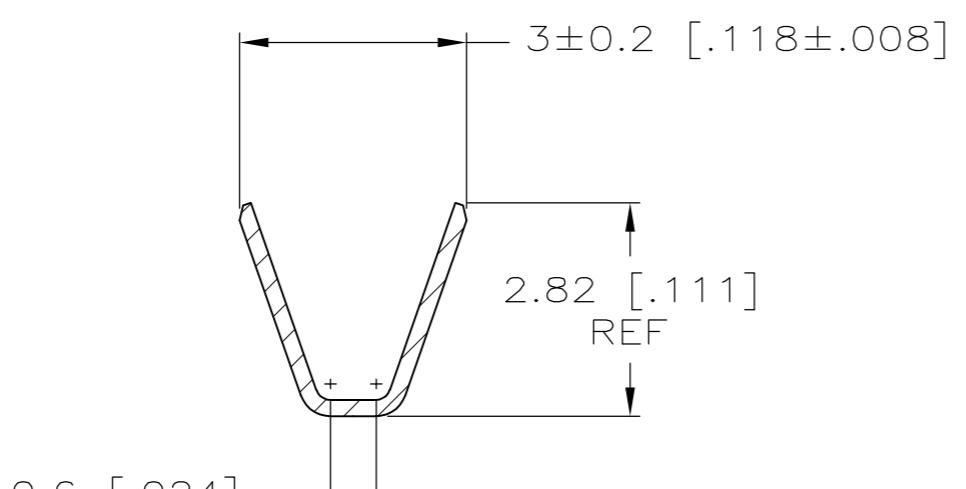
- Contact Type = Socket
- Contact Base Material = Brass
- Contact Plating, Mating Area, Material = Pre-Tin
- Contact Plating, Mating Area, Thickness (μm [μin]) = 2.54 [100]
- Contact Design = Single Beam

Other:

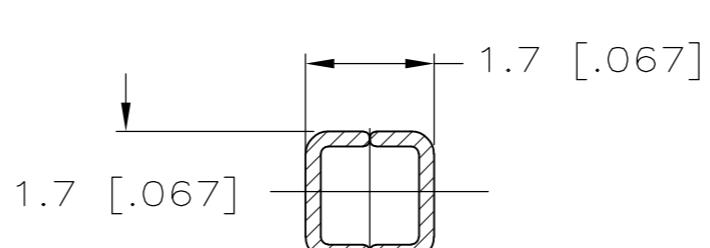
- Brand = TE Connectivity



SECTION A-A



SECTION B-B



SECTION C-C

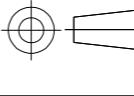
METRIC

1. WIRE RANGE: 1.31mm² (16 AWG).
2. INSULATION RANGE 3.10 [.122] MAXIMUM DIAMETER

③ FINISH: 0.76μm MINIMUM GOLD OVER 1.27μm MINIMUM NICKEL REQUIRED ON INNER SURFACE, PERMITTED ON OUTER SURFACE.

④ FINISH: 2.54μm MINIMUM TIN ON ALL SURFACES IN THIS AREA.

GOLD ③④	PHOS. BRZ.	1586841-4
PRE-TIN	PHOS. BRZ.	1586841-3
GOLD ③④	BRASS	1586841-2
PRE-TIN	BRASS	1586841-1
FINISH:	MATERIAL:	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN 04APR2007 K. WHITAKER 04APR2007 CHK C. CASH 04APR2007 APVD C. CASH 04APR2007 PRODUCT SPEC		Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: mm [INCHES]		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME TERMINAL VAL-U-LOK(TM) SOCKET (LOOSE PIECE)	
 0 PLC ± 0.2 [.01] 1 PLC ± 0.13 [.005] 2 PLC ± 0.254 [.0100] 3 PLC ± 4 PLC ±		C. CASH APPLICATION SPEC		C. CASH APPLICATION SPEC	
MATERIAL		FINISH		WEIGHT	
A2 00779		C-1586841		RESTRICTED TO —	
CUSTOMER DRAWING		SCALE 10:1		SHEET 1 OF 1	