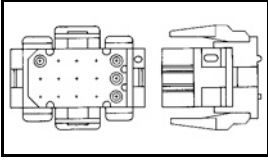


## 1-640522-0 Product Details

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1-640522-0

TE Internal Number: 1-640522-0

Active

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**.165" Centerline, 250 V, 9 A max.**

Always EU RoHS/ELV Compliant  
(Statement of Compliance)

**Product Highlights:**

- Wire-to-Board, Wire-to-Board / Wire-to-Panel / Wire-to-Wire, Wire-to-Panel, Wire-to-Wire
- Connector
- Housing
- Connector Style = Plug
- Applies To Wire/Cable

[View all Features](#)

**Quick Links**

- ▶ [Pricing & Availability](#)
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### Documentation & Additional Information

**Product Drawings:**

- [HOUSING, PLUG MR12 12 POSITION](#) (PDF, English)

**Catalog Pages/Data Sheets:**

- [SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#) (PDF, English)

**Product Specifications:**

- [Connector, Miniature Rectangular \(MR\)](#) (PDF, English)

**Application Specifications:**

- [Miniature Rectangular Contacts and Housings](#) (PDF, English)

**Instruction Sheets:**

- [AMP\\* MINIATURE RECTANGULAR II \(MR12\) CONNECTORS](#) (PDF, English)

**CAD Files:** (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version F)
- [3D Model](#) (IGES, Version F)
- [3D Model](#) (STEP, Version F)

[List all Documents](#)

**Additional Information:**

- [Product Line Information](#)

**Related Products:**

- [Tooling](#)
- [Mating Products \(5\)](#)

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

**Product Type Features:**

- Product Type = Connector
- Connector Type = Housing
- Strain Relief = Without
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- Shrouded = Yes
- Sealed = No
- Shape = Rectangular
- UL File Number = E28476
- CSA File Number = LR 7189

**Mechanical Attachment:**

- Panel Mount Retention = Without
- Mating Retention Type = Positive Lock

**Configuration Features:**

- Number of Positions = 12
- Number of Rows = 4
- Number of Columns = 3

**Industry Standards:**

- UL Voltage Rating (VAC) = 250
- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 240°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency/Standard = UL, CSA
- UL Rating = Recognized

**Electrical Characteristics:**

- Hot Pluggable = No
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 250

**Dimensions:**

- Length (X-Axis) (mm [in]) = 21.34 [0.840]
- Width (Z-Axis) (mm [in]) = 25.53 [1.005]
- Profile Height (Y-Axis) (mm [in]) = 12.95 [0.510]

**Body Features:**

- Mating Retention = With
- Row-to-Row Spacing (mm [in]) = 4.19 [0.1649]

**Contact Features:**

- Contact Type = Socket

**Housing Features:**

- Connector Style = Plug
- Housing Color = Brick Red
- Mating Alignment = With
- Centerline (mm [in]) = 4.19 [0.1649]
- Mating Alignment Type = Polarization
- UL Flammability Rating = UL 94V-0

**Environmental:**

- Operating Temperature (°C [°F]) = -55 - +105 [-67 - +221]

**Conditions for Usage:**

- Applies To = Wire/Cable
- Accepts Wire Insulation Diameter, Range (mm [in]) = 2.92 [0.115]

**Operation/Application:**

- Application Use = Wire-to-Board, Wire-to-Board / Wire-to-Panel / Wire-to-Wire, Wire-to-Panel, Wire-to-Wire

**Packaging Features:**

- Packaging Method = Loose Piece

**Other:**

- Brand = AMP

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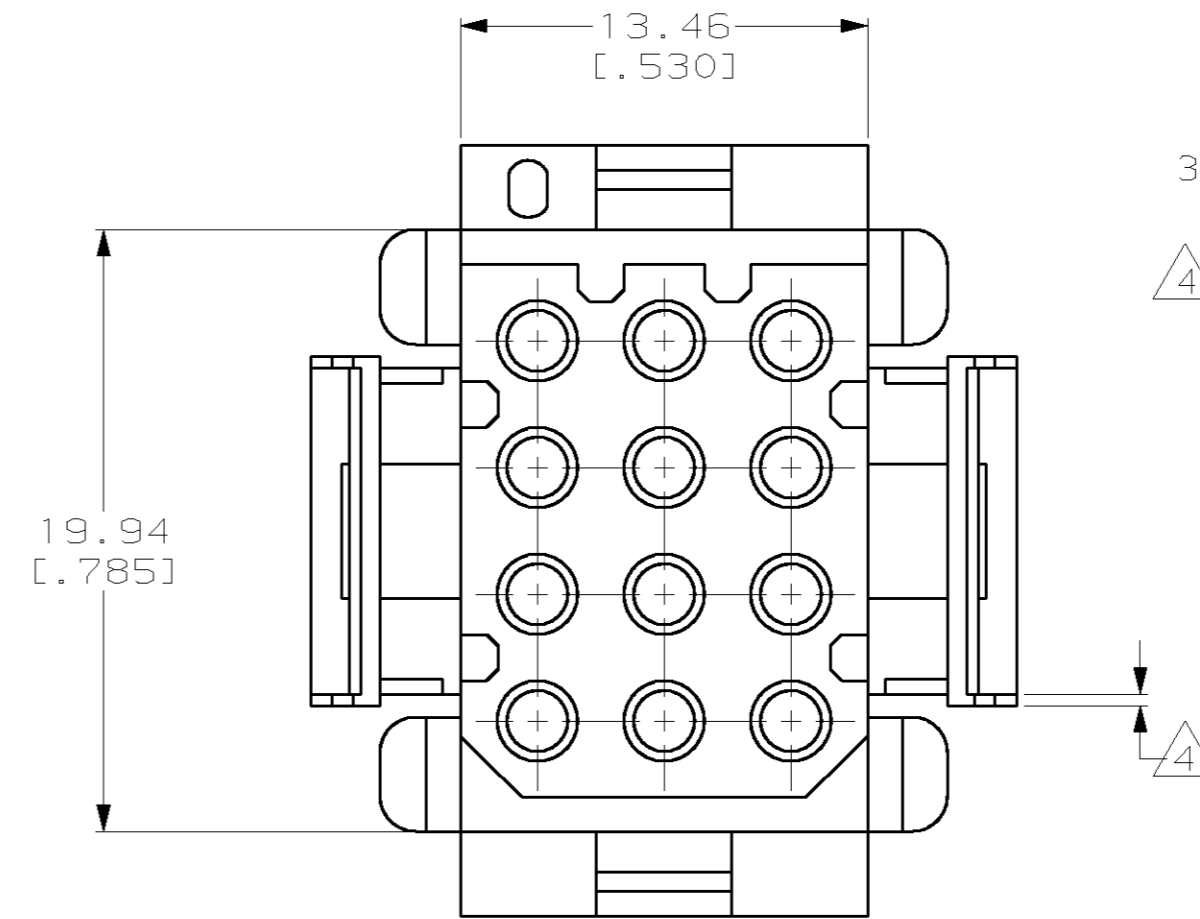
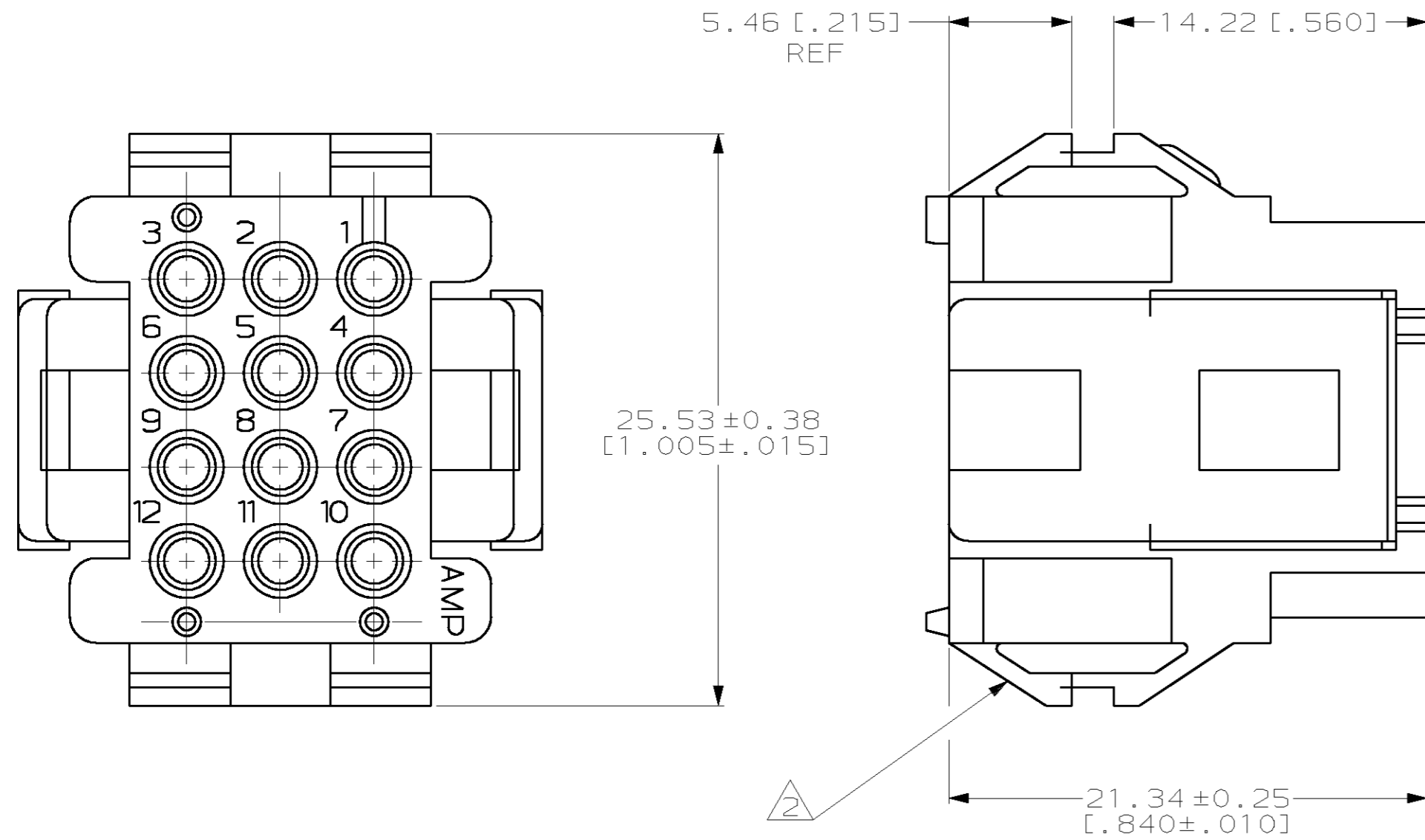
**Customer Support**

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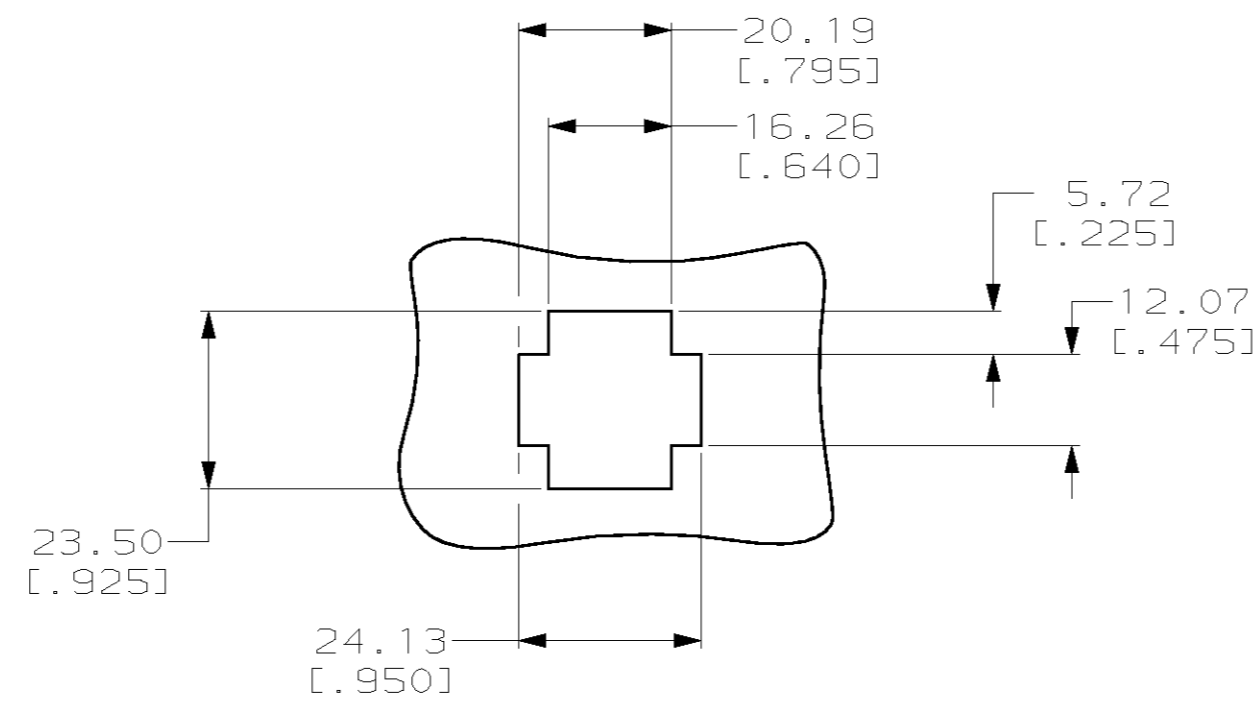
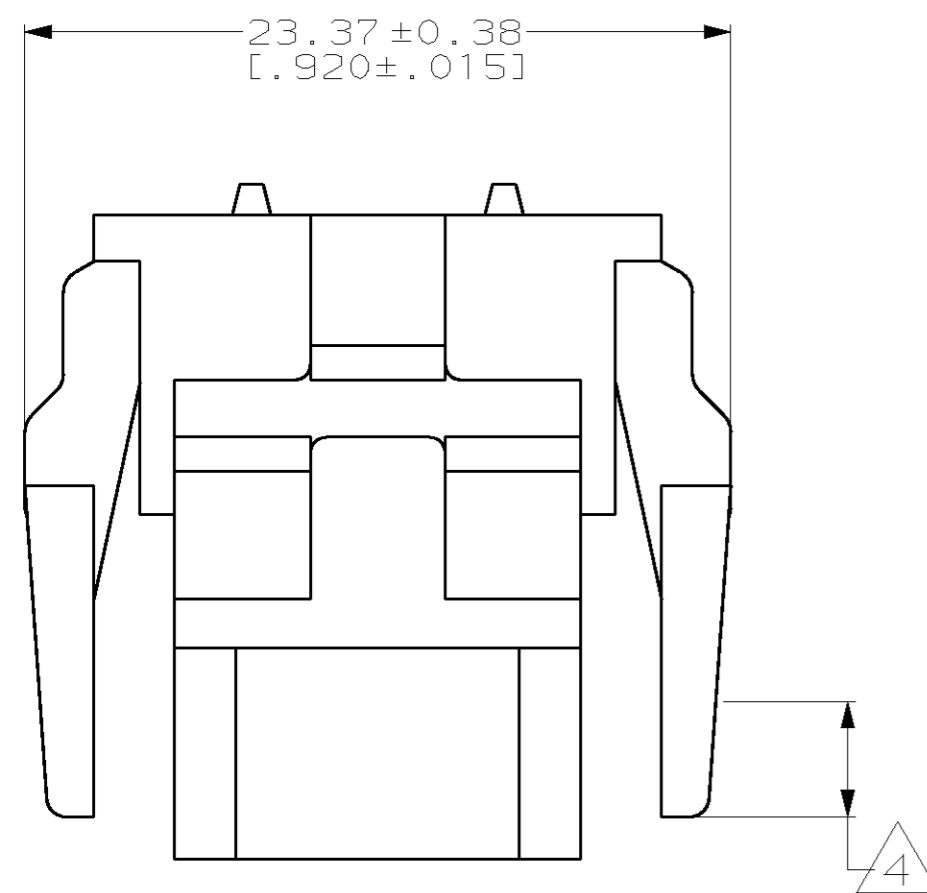
**Keep Me Informed**

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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD		
CM	52	F		REVISED PER EC 063B-0104-99	05-OCT-99	KW	KC



- MATES WITH HOUSING 640512.
- UL LOGO AND CSA LOGO TO APPEAR ON EITHER LATCH SURFACE PER AMP SPEC 202-20, I.D. NO. 1-18838-3 AND 1-18839-3. FROST BACKGROUND OPTIONAL.
- DIMENSIONS IN BRACKETS ARE IN INCHES.
- NON-FILL PERMITTED UP TO 3.8[.15] FROM EDGE OF LATCH ARM ON THE 0.38[.015] THICK FLANGE, 4 PLC.



RECOMMENDED CUT OUT FOR 1.73[.068] MAX THICK PANEL  
 SCALE 1:1

**METRIC**

1-640522-0  
 PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. VESTAL 12-01-97	<b>AMP</b> AMP Incorporated Harrisburg, PA 17105-3608
DIMENSIONS: mm [INCHES]		CHK R. SWING 12-01-97	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD A. BEDDICK 12-01-97	NAME HOUSING, PLUG MRII 12 POSITION
0 PLC ±- 1 PLC ±- 2 PLC ±0.13[.005] 3 PLC ±- 4 PLC ±- ANGLES ±0°30'		PRODUCT SPEC -	SIZE A2
MATERIAL NYLON, UL 94V-0, NATURAL (BRICK RED)		APPLICATION SPEC -	CAGE CODE 00779
FINISH -		WEIGHT -	DRAWING NO. C-640522
		CUSTOMER DRAWING	SCALE 4:1 SHEET 1 OF 1 REV F