

## 5749111-4 Product Details

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**5749111-4**

TE Internal Number: 5749111-4

 Active

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### .050 Series Cable Connectors (SCSI)

 Always EU RoHS/ELV Compliant  
(Statement of Compliance)

#### Product Highlights:

- Connector
- Connector Style = Plug
- 50 Positions
- Wire/Cable Type = Round Jacketed Cable
- Applies To Cable

[View all Features](#)

### Quick Links

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### Documentation & Additional Information

#### Product Drawings:

- [PLUG ASSEMBLY, AMPLIMITE .050 Series \(PDF, English\)](#)

#### Catalog Pages/Data Sheets:

- [AMPLIMITE Subminiature D Connectors - .050 Series Co... \(PDF, English\)](#)

#### Product Specifications:

- [Connector, AMPLIMITE, Shielded, .050 Series \(PDF, English\)](#)

#### Application Specifications:

- [AMPLIMITE .050 Series Cable End Insulation Displacem... \(PDF, English\)](#)

#### Instruction Sheets:

- [Manual Arbor Frame Assembly 58024-1 \(PDF, English\)](#)
- [Repair Tool 58430-1 for AMPLIMITE .050 Series Connectors \(PDF, English\)](#)
- [AMPLIMITE .050 Series Connectors \(Round-to-Flat Cable\) \(PDF, English\)](#)
- [Installation and Use of Mass Termination Tooling \(PDF, English\)](#)
- [Cover Lacing Fixture 91293-1 for AMPLIMITE .050 Seri... \(PDF, English\)](#)
- [Manual Miniature Applicator Frame Assembly 91295-1 \(PDF, English\)](#)
- [Cover Closing Kits 543508-1 and 543526-1 and Staple ... \(PDF, English\)](#)
- [Tooling Kit 768900-1 \(PDF, English\)](#)

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

- [2D Drawing \(DXF, Version 01\)](#)
- [3D Model \(IGES, Version 01\)](#)
- [3D Model \(STEP, Version 01\)](#)

[List all Documents](#)

#### Related Products:

- [Tooling](#)
- [Mating Products \(20\)](#)
- [Accessories \(3\)](#)

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

#### Product Type Features:

- [Product Type](#) = Connector
- [Wire/Cable Type](#) = Round Jacketed Cable
- [Wire Insulation Diameter \(mm \[in\]\)](#) = 0.74 - 0.91 [0.029 - 0.036]
- [Mating Connector Lock](#) = Without

#### Contact Features:

- [Contact Base Material](#) = Phosphor Bronze
- [Contact Plating, Mating Area, Material](#) = Gold Flash over Palladium Nickel, Gold (30)
- [Solder Tail Contact Plating](#) = Tin over Nickel

- [Detent](#) = Without
- [Rails](#) = Without
- [Termination Cover](#) = With
- [Product Series](#) = Series III
- Termination Cover Type = Standard
- Termination Cover Method = Assembled
- Color = Black

**Mechanical Attachment:**

- [Panel Mount Retention](#) = Without

**Termination Features:**

- Termination Method to Wire/Cable = Insulation Displacement Crimp (IDC)

**Body Features:**

- Wire Range (mm [AWG]) = 0.05-0.09<sup>2</sup> [30-28]
- Plug Shell Material = Steel
- Plug Shell Plating = Tin-Nickel Alloy

**Housing Features:**

- Connector Style = Plug
- Housing Material = Thermoplastic - GF
- UL Flammability Rating = UL 94V-0

**Configuration Features:**

- Number of Positions = 50
- [Shielded](#) = Yes

**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

**Conditions for Usage:**

- Applies To = Cable

**Other:**

- Brand = AMP
- Comment = Plug connector requires backshell kit for complete assembly

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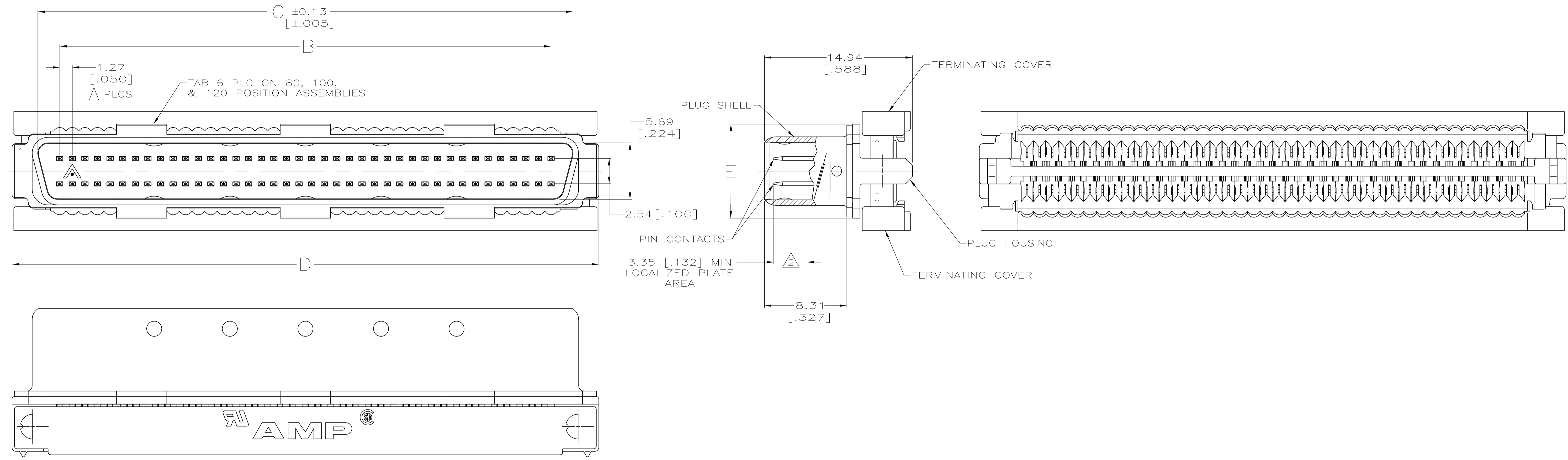
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- △ MATERIAL:  
 PIN CONTACTS - PHOSPHOR BRONZE.  
 PLUG SHELL - STEEL.  
 PLUG HOUSING & TERMINATING COVERS - UL V-0 RATED THERMOPLASTIC; COLOR: BLACK.
- △ FINISH:  
 PIN CONTACTS - EITHER 0.76µm [.000030] MIN GOLD PLATE OR GOLD FLASH OVER PALLADIUM NICKEL PLATE, 0.76µm [.000030] MIN TOTAL IN LOCALIZED PLATE AREA, 3.00µm [.000118] MIN TIN IN TERMINATION AREA, ALL OVER 1.27µm [.000050] MIN NICKEL.  
 PLUG SHELL - 0.25µm [.000010] MIN TIN-NICKEL OVER 3.81µm [.000150] MIN NICKEL OVER 2.54µm [.000100] MIN COPPER.
3. RECOMMENDED WIRE: 28 AWG OR 30 AWG, SOLID OR 7 STRAND, PVC INSULATION WITH A 0.74-0.91 [.029-.036] INSULATION DIAMETER.

|        |                |                  |                  |                  |    |            |             |
|--------|----------------|------------------|------------------|------------------|----|------------|-------------|
| △      | 7.44<br>[.293] | 24.87<br>[.979]  | 19.61<br>[.772]  | 15.24<br>[.600]  | 12 | 26         | 1-5749111-0 |
| △      | 9.47<br>[.373] | 84.56<br>[3.329] | 79.30<br>[3.122] | 74.93<br>[2.950] | 59 | 120        | 5749111-9   |
| △      | 9.47<br>[.373] | 71.86<br>[2.829] | 66.60<br>[2.622] | 62.23<br>[2.450] | 49 | 100        | 5749111-8   |
| △      | 9.47<br>[.373] | 59.16<br>[2.329] | 53.90<br>[2.122] | 49.53<br>[1.950] | 39 | 80         | 5749111-7   |
| △      | 7.44<br>[.293] | 51.54<br>[2.029] | 46.28<br>[1.822] | 41.91<br>[1.650] | 33 | 68         | 5749111-6   |
| △      | 7.44<br>[.293] | 40.11<br>[1.579] | 34.85<br>[1.372] | 30.48<br>[1.200] | 24 | 50         | 5749111-4   |
| △      | 7.44<br>[.293] | 33.76<br>[1.329] | 28.50<br>[1.122] | 24.13<br>[.950]  | 19 | 40         | 5749111-3   |
| △      | 7.44<br>[.293] | 21.06<br>[.829]  | 15.80<br>[.622]  | 11.43<br>[.450]  | 9  | 20         | 5749111-1   |
| FINISH | E              | D                | C                | B                | A  | NO OF POSN | PART NO     |

THIS DRAWING IS A CONTROLLED DOCUMENT.

|             |   |   |                                      |
|-------------|---|---|--------------------------------------|
| DIMENSIONS: | TOLERANCES UNLESS OTHERWISE SPECIFIED:  | APVD  | NAME                                 |
| mm [INCHES] | 0 PLC ± -<br>1 PLC ± -<br>2 PLC ± 0.38 [.015]<br>3 PLC ± -<br>4 PLC ± -<br>ANGLES ± - | G. ATTADIA - 02-23-05<br>J. GFRACE - 02-23-05<br>M. WALMSLEY - 02-23-05 | PLUG ASSEMBLY, AMPLIMITE .050 Series |
| MATERIAL    | FINISH  | SIZE  | RESTRICTED TO                        |
| △           | SEE TABLE   | A1 00779 C=5749111  | —                                    |

CUSTOMER DRAWING SCALE 5:1 SHEET 1 OF 1 REV E1