

747840-5 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HD-20

TE Internal #: 747840-5

PCB D-Sub Connectors, Plug, Board-to-Board, 9 Position, 2.74 mm
[.108 in] Centerline, 2 Row, Size 1, Round, Standard Profile,
AMPLIMITE HD-20

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[Connectors >](#) [D-Shaped Connectors >](#) [D-Sub Connectors >](#) [PCB D-Sub Connectors >](#)

[D-Sub Plug Assembly: Standard, Right Angle, Shell Size 1, 2.74mm](#)



Connector & Housing Type: **Plug**

Connector System: **Board-to-Board**

Number of Positions: **9**

Centerline (Pitch): **2.74 mm [.108 in]**

Number of Rows: **2**

[All D-Sub Plug Assembly: Standard, Right Angle, Shell Size 1, 2.74mm \(53\)](#)

Features

Product Type Features

Grounding Indents	With
Grounding Straps	With
Footprint	8.08 mm[.318 in]
Shell Type	Front Metal Shell
Connector & Housing Type	Plug
Connector System	Board-to-Board
D-Sub Shell Size	1
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Product Type	Connector

Configuration Features

Number of Positions	9
Number of Rows	2
PCB Mount Orientation	Right Angle
Preloaded	Yes

Body Features



Eyelet Material	Brass
Eyelet Plating Material	Tin over Copper Flash
Female Screwlock Material	Zinc
Plastic	No
Female Screwlock Plating Material	Clear Chromate
Connector Profile	Standard
Shell Plating Material	Tin
Shell Material	Steel
Post Size	.66 mm[.026 in]

Contact Features

Contact Mating Area Plating Material	Gold Flash
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Brass
Contact Shape & Form	Round
Contact Current Rating (Max)	6 A

Termination Features

Grounding Clips	Without
Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Post Length	3.18 mm[.125 in]

Mechanical Attachment

Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention	With
Mating Retention Type	Female Screwlocks, Fixed
Connector Mounting Type	Board Mount
Boardlock Plating Material	Tin-Lead over Nickel
Boardlock Material	Copper Alloy
Mounting Hole Diameter	3.18 mm[.125 in]

Housing Features

Centerline (Pitch)	2.74 mm[.108 in]
Housing Material	Nylon GF, Polyester GF



Housing Color	Black
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Dimensions

Row-to-Row Spacing	2.84 mm [.112 in]
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PCB Thickness (Recommended)	1.57 mm [.062 in]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C [-67 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

Approved Standards	UL E28476
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UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tray
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Packaging Quantity	130
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Other

Comment	Plugs are preloaded with size 20 DF posted pin contacts
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Not Compliant
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EU ELV Directive 2000/53/EC	Compliant with Exemptions
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China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) SVHC > Threshold: Pb (13% in Component Part)
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Article Safe Usage Statements:

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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Solder Process Capability	Wave solder capable to 265°C
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Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

Also in the Series | **AMPLIMITE HD-20**

Documents

Product Drawings

09 MSFL PLUG RA 318 (SL,FM,BL)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_747840-5_AC.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_747840-5_AC.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_CVM_747840-5_AC.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English