

747840-6 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HD-20

TE Internal #: 747840-6

PCB D-Sub Connectors, Plug, Board-to-Board, 9 Position, 2.74 mm  
[.108 in] Centerline, 2 Row, 1 Connector Shell Size, Round,  
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

Shell Material Configuration	Front Metal Shell
Ground Feature Type	Grounding Indents, Grounding Straps
Connector & Housing Type	Plug
Connector System	Board-to-Board
Connector Shell Size	1
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

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

### Body Features

Mating Feature Material	Zinc
Assembly Process Feature Material	Copper Alloy
Mating Feature Plating Material	Clear Chromate
Shell Plating Material	Tin
Primary Product Color	Black



Connector Profile	Standard
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### Contact Features

	30 µin
Contact Mating Area Plating Material	Gold, Gold Flash over Palladium Nickel
Contact Underplating Material	Nickel, Palladium 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

Round Termination Post & Tail Diameter	.66 mm[.026 in]
Termination Post & Tail Length	3.18 mm[.125 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Assembly Process Feature Plating Material	Tin-Lead over Nickel
Mounting Feature Plating Material	Tin over Copper Flash
Mounting Feature Material	Brass
Mounting Hole Diameter	3.18 mm[.125 in]
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention	With
Mating Retention Type	Female Screwlocks, Fixed
Connector Mounting Type	Board Mount

### Housing Features

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

### Dimensions

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

### 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
UL Flammability Rating	UL 94V-0

### Packaging Features

Packaging Quantity	130
Packaging Method	Tray

### Other

D-Shaped Connectors 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
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (13% in Component Part) <b>Article Safe Usage Statements:</b> 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.
Solder Process Capability	Wave solder capable to 265°C

#### 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



TE Part # CAT-AM7-248H6  
IDC D-Sub: Receptacle Kit, Wire to Wire, Signal, 2.74 mm



TE Part # CAT-AM7-253  
IDC D-Sub: Receptacle Assembly, Low Profile, Signal, 2.77 mm



TE Part # CAT-AM7-248H8  
IDC D-Sub: Receptacle Assembly, Wire to Wire, Signal, 2.74 mm



TE Part # 747516-7  
09 HDE PMOLD RCPT, LEAD FREE



TE Part # 3-1393483-8  
V42254A1115B209=SUB D FEDERLEI

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



PCB D-Sub Connectors(353)

## Customers Also Bought



TE Part #352068-1  
Z-PACK/A F-HDR 110P



TE Part #188835-1  
Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm



TE Part #745414-1  
50 PLUG SP/MS STD



TE Part #102618-6  
16 MODII HDR DRST SHRD .100CL



## Documents

### Product Drawings

[09 MSFL PLUG RA 318 \(SL,FM,BL\)](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_747840-6\\_AC.2d\\_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_747840-6\\_AC.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_747840-6\\_AC.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

[MD\\_747840-6\\_06212013728\\_dmtec](#)

English

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English

### Agency Approvals

[UL Report](#)

English