

745414-7 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HD-20

TE Internal #: 745414-7

PCB D-Sub Connectors, Plug, Board-to-Board, 50 Position, 2.74 mm [.108 in] Centerline, 3 Row, Size 5, Square, High Profile, Vertical, AMPLIMITE HD-20

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Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors > D-Sub Plug Assembly: Vertical, Shell Size 5, 2.74mm



Connector & Housing Type: **Plug**

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

Number of Positions: **50**

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

Number of Rows: **3**

[All D-Sub Plug Assembly: Vertical, Shell Size 5, 2.74mm \(8\)](#)

## Features

### Product Type Features

Grounding Indents	With
Grounded	Yes
Grounding Straps	Without
Shell Type	Full Metal Shell
Connector & Housing Type	Plug
Connector System	Board-to-Board
D-Sub Shell Size	5
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Product Type	Connector

### Configuration Features

Number of Positions	50
Number of Rows	3
PCB Mount Orientation	Vertical
Preloaded	Yes

### Body Features

Plastic	No
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Insert Material	Thermoplastic
Connector Profile	High
Shell Plating Material	Tin
Shell Material	Steel
Post Size	.64 mm[.025 in]

### Contact Features

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	Square
Contact Current Rating (Max)	6 A
	30 $\mu$ m

### Termination Features

Grounding Clips	Without
Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Post Length	4.78 mm[.188 in]

### Mechanical Attachment

Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Mating Retention	Without
Connector Mounting Type	Board Mount
Mounting Hole Diameter	3.05 mm[.12 in]

### Housing Features

Centerline (Pitch)	2.74 mm[.108 in]
Housing Material	Thermoplastic
Housing Color	Black

### Dimensions

Row-to-Row Spacing	2.84 mm[.112 in]
PCB Thickness (Recommended)	2.36 – 3.18 mm[.093 – .125 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

Insert Flammability Rating	UL 94V-0
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0

### Packaging Features

Packaging Method	Tube
Packaging Quantity	7

### 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
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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not lead free process capable

#### 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

#### 50 PLUG SP/MS STD

English

### CAD Files

#### 3D PDF

English

#### Customer View Model

[ENG\\_CVM\\_745414-7\\_H.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_745414-7\\_H.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_745414-7\\_H.3d\\_stp.zip](#)

English

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## Product Specifications



### Application Specification

English

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### Agency Approvals

#### UL Report

English