

5745412-1 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HD-20

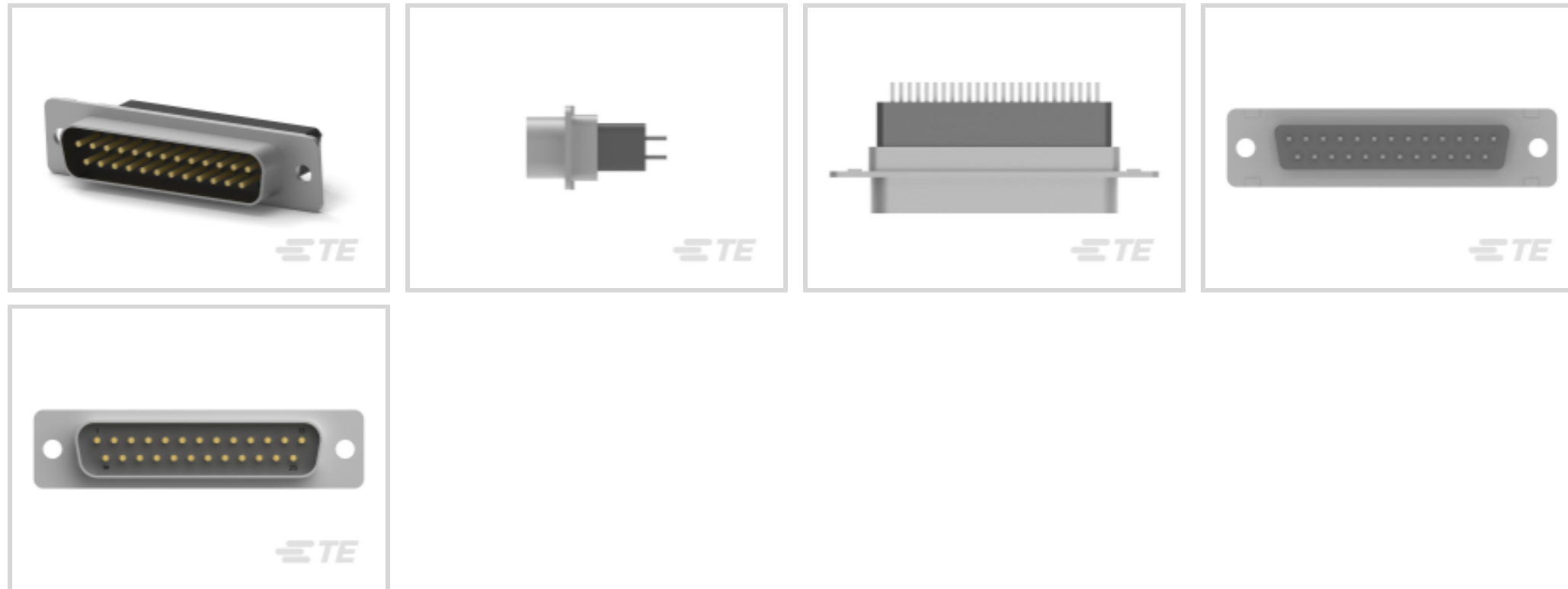
TE Internal #: 5745412-1

PCB D-Sub Connectors, Plug, Board-to-Board, 25 Position, 2.77 mm [.109 in] Centerline, 2 Row, Size 3, Square, Standard Profile, 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 3, 2.74mm



Connector & Housing Type: **Plug**

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

Number of Positions: **25**

Centerline (Pitch): **2.77 mm [.109 in]**

Number of Rows: **2**

[All D-Sub Plug Assembly: Vertical, Shell Size 3, 2.74mm \(50\)](#)

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	3
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Shielded	No
Product Type	Connector

Configuration Features

Number of Positions	25
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Number of Rows	2
PCB Mount Orientation	Vertical
Preloaded	Yes

Body Features

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

Contact Features

Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Shape & Form	Square
Contact Current Rating (Max)	6 A
	30 μ in

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

Housing Features

Centerline (Pitch)	2.77 mm[.109 in]
Housing Material	Thermoplastic
Housing Color	Black



Dimensions

Row-to-Row Spacing	2.84 mm [.112 in]
PCB Thickness (Recommended)	1.57 – 2.36 mm [.062 – .093 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
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tube
Packaging Quantity	10

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	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No 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) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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-AM7-248H5
IDC D-Sub: Receptacle Assembly,
Wire to Wire, Signal, 2.77 mm



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



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



TE Part # 747548-8
KIT, RCPT, 25P, HDE, SHLD HDWRE

Also in the Series | AMPLIMITE HD-20



PCB D-Sub Connectors(354)

Documents

Product Drawings

25 PLUG SP/MS STD

English

CAD Files

Customer View Model

[ENG_CVM_CVM_5745412-1_B.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_5745412-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5745412-1_B.3d_stp.zip](#)

English



Datasheets & Catalog Pages

[AMPLIMITE Subminiature D Connectors - Straight Posted Connectors](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[TE Material Declaration](#)

English

Agency Approvals

[UL Report](#)

English