

1658607-1 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HDF

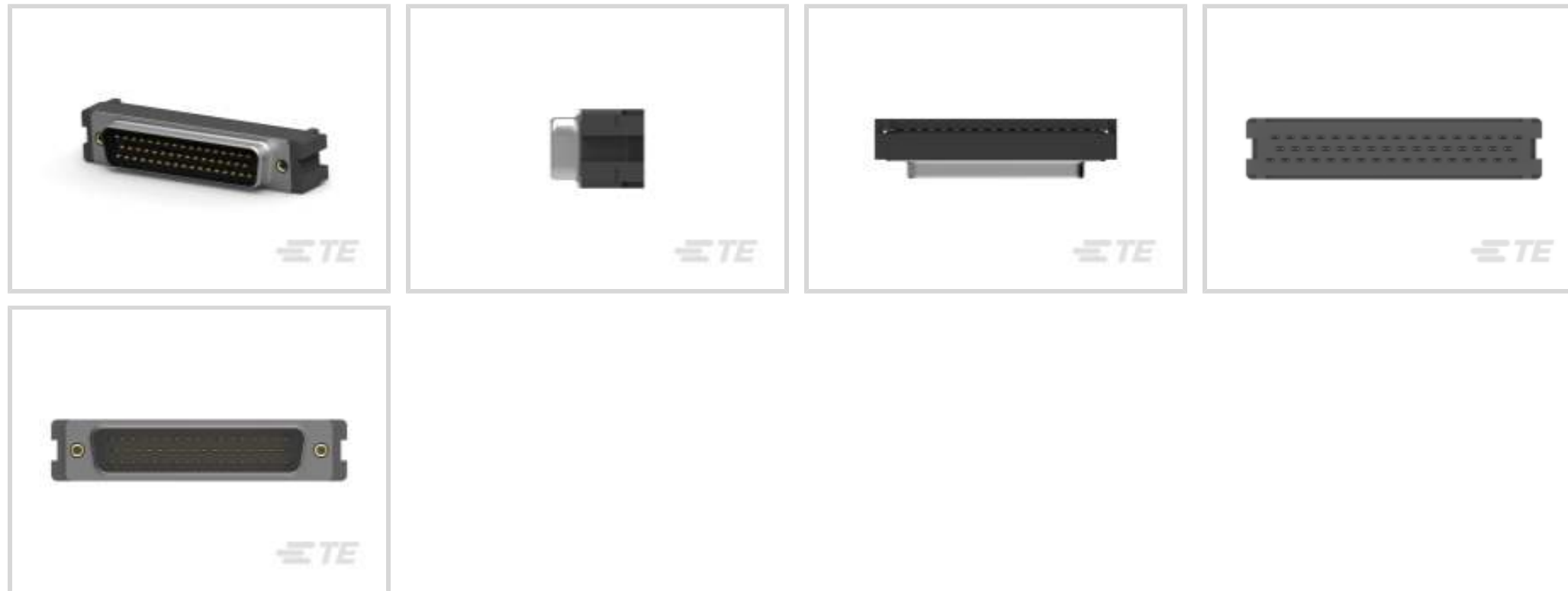
TE Internal #: 1658607-1

IDC D-Sub Connectors, Plug, 28 – 26 AWG Solid Wire Size, .1 – .13 mm<sup>2</sup> Solid Wire Size, Cable-to-Cable, 50 Position, AMPLIMITE HDF

[View on TE.com >](#)



Connectors > D-Shaped Connectors > D-Sub Connectors > IDC D-Sub Connectors > IDC D-Sub: Plug Assembly, Low Profile, Signal, 2.77 mm



Connector & Housing Type: **Plug**

Solid Wire Size: **.1 – .13 mm<sup>2</sup>**

Shielded: **No**

Connector System: **Cable-to-Cable**

[All IDC D-Sub: Plug Assembly, Low Profile, Signal, 2.77 mm \(17\)](#)

## Features

### Product Type Features

Shell Material Configuration	Front Metal Shell
Ground Feature Type	Grounding Indents
Connector & Housing Type	Plug
Connector System	Cable-to-Cable
Connector Product Type	Connector Assembly
Connector Shell Size	5
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Number of Positions	50
Number of Rows	3
Compatible With Wire & Cable Type	Ribbon Cable

### Body Features

Ribbon Cable Centerline Spacing	1.27 mm[.05 in]
Mating Retention Feature Material	Steel



Shell Plating Finish	Bright
Cable Exit Angle	180°
Shell Plating Material	Tin
Connector Profile	Low

### Contact Features

Contact Type	Pin
Wire Contact Termination Area Plating Material	Tin
	30 µin
Contact Mating Area Plating Material	Gold, Gold Flash over Palladium Nickel
Contact Underplating Material	Nickel, Palladium Nickel
Contact Base Material	Phosphor Bronze
Contact Size	Size 20
Contact Current Rating (Max)	1.25 A

### Termination Features

Termination Method to Wire & Cable	Insulation Displacement (IDC)
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### Mechanical Attachment

Mating Retention Feature Plating Material	Zinc
Mating Retention	With
Mating Retention Type	Threaded Insert, 4-40 UNC
Connector Mounting Type	Cable Mount (Free-Hanging)

### Housing Features

Shell Material	Steel
Housing Material	Thermoplastic
Centerline (Pitch)	2.77 mm [.054 in]

### Dimensions

Accepts Cable Insulation Diameter Range	.81 – .97 mm [.032 – .038 in]
Solid Wire Size	.1 – .13 mm <sup>2</sup>
Wire Size	.08 – .15 mm <sup>2</sup>

### Usage Conditions

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

Shielded	No
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Circuit Application

Signal

### Industry Standards

UL Flammability Rating

UL 94V-0

### Packaging Features

Packaging Quantity

32

Packaging Method

Package

### Other

D-Shaped Connectors Comment

All plug assemblies are supplied with housing and cover preassembled

## 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 2023 (235)  
 Candidate List Declared Against: JUNE 2023 (235)  
 Does not contain REACH SVHC

Halogen Content

Not Low Halogen - contains Br or Cl &gt; 900 ppm.

Solder Process Capability

Not applicable for solder process capability

#### 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-026-RAVSAP5277  
D-Sub Receptacle Assembly: Vertical, Action Pin, Shell Size 5, 2.77mm



TE Part # 1658606-1  
50 POS HDF RCPT, MS, LEAD FREE



TE Part # CAT-025-DRAVS5277  
D-Sub Receptacle Assembly: Vertical, Shell Size 5, 2.77mm



TE Part # 5747193-2  
50 RCPT RA/MS STD (SL)



TE Part # 5745116-2  
50 RCPT RA/MS STD



TE Part # 745116-2  
50 RCPT RA/MS STD




TE Part # 747193-2  
50 RCPT RA/MS STD (SL)



TE Part # 768340-1  
UNIV HAND TOOL KIT AMPLATCH

Also in the Series | **AMPLIMITE HDF**



D-Sub Locking & Mounting(8)



IDC D-Sub Connectors(36)

Customers Also Bought



TE Part #3-641213-6  
06P MTA100 HDR ASSY PO/ST LF



TE Part #1011-270-0605  
BKSHL, 6P, BLK, REC, RA, SR, NW8.5 /10/13



TE Part #1-640250-5  
15P SL156 HSG W/LCK RAMP NATL



TE Part #11028337-00  
SUPER STABLE GLASS NTC THERMISTOR



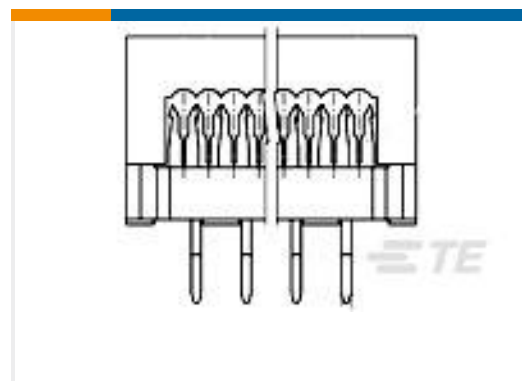
TE Part #T4161110008-002  
RPC-M12-MS-8CON-PVC-1.0SH



TE Part #695130-000  
W-040-18



TE Part #2-1971906-3  
HEADER ASSY 6POS,KEYING-B,NEW GIC3.3



TE Part #1-111382-7  
020 DIP PLUG 100CL TIN KK



## Documents

### Product Drawings

#### 50 POS HDF PLUG, MS, LEAD FREE

English

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### CAD Files

#### 3D PDF

English

#### Customer View Model

##### ENG\_CVM\_1658607-1\_A1.2d\_dxf.zip

English

#### Customer View Model

##### ENG\_CVM\_1658607-1\_A1.3d\_igs.zip

English

#### Customer View Model

##### ENG\_CVM\_1658607-1\_A1.3d\_stp.zip

English

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

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### Datasheets & Catalog Pages

#### AMPLIMITE Subminiature D Connectors - Cable Connectors

English

#### AMPLIMITE Cable Connectors and Shielding Hardware Kits QRG

English

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### Product Specifications

#### Product Specification

English

#### Product Specification

English

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### Instruction Sheets

#### Instruction Sheet (U.S.)

English

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### Agency Approvals

#### UL Report

English