

1-749656-1 ✓ ACTIVE

AMPLIMITE | AMPLIMITE 0.50 Series

TE Internal #: 1-749656-1

IDC D-Sub Connectors, Receptacle, 30 – 28 AWG Solid Wire Size, .05 – .1 mm² Solid Wire Size, Cable-to-Panel, 50 Position, AMPLIMITE 0.50 Series

[View on TE.com >](#)



Connectors > D-Shaped Connectors > D-Sub Connectors > IDC D-Sub Connectors > IDC D-Sub: Receptacle Assembly, Panel Mount, Signal, 1.27 mm



Connector & Housing Type: **Receptacle**

Solid Wire Size: **.05 – .1 mm²**

Shielded: **No**

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

[All IDC D-Sub: Receptacle Assembly, Panel Mount, Signal, 1.27 mm \(20\)](#)

Features

Product Type Features

Rails	Without
Connector & Housing Type	Receptacle
Connector System	Cable-to-Panel
Connector Product Type	Connector Assembly
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	50
Number of Rows	2
Compatible With Wire & Cable Type	Ribbon Cable, Round Jacketed Cable

Body Features

Bracket Material	Zinc
Color	Black



Bracket Plating Material	Nickel over Copper
Cover Material	Thermoplastic
Ribbon Cable Centerline Spacing	.64 mm[.025 in]
Shell Material	Steel
Shell Plating Material	Nickel over Copper

Contact Features

	30 μin
Contact Mating Area Plating Material	Gold or Gold Flash over Palladium Nickel
Contact Underplating Material	Nickel, Palladium Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A

Termination Features

Termination Cover Type	Standard
Termination Cover Method	Assembled
Termination Cover	With
Termination Method to Wire & Cable	Insulation Displacement (IDC)

Mechanical Attachment

Mating Connector Lock	With
Mounting Angle	None
Mating Connector Lock Type	Latch Blocks
Panel Mount Feature	With
PCB Mount Retention Type	None
Detent	Without
Screw & Hole Thread Size	2-56
Connector Mounting Type	Panel Mount

Housing Features

Housing Material	Thermoplastic
Housing Color	Black
Centerline (Pitch)	1.27 mm[.05 in]

Dimensions

Insulation Diameter (Max)	.91 mm
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Accepts Wire Insulation Diameter Range	.74 – .91 mm [.029 – .036 in]
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Solid Wire Size	.05 – .1 mm ²
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Wire Size	.05 – .09 mm ²
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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
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Industry Standards

UL Flammability Rating	UL 94V-0
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Cover Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tube
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Packaging Quantity	10
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Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No 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: JAN 2022 (223) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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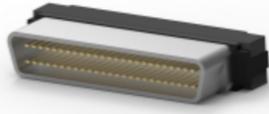
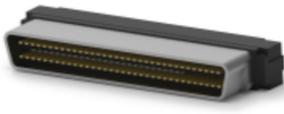
Solder Process Capability	Not applicable for solder process capability
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Product Compliance Disclaimer

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

 <p>TE Part # 5749111-4 50 50SR CABLE PLUG ASSY</p>	 <p>TE Part # 5749699-5 50 50SR CABLE RCPT KIT</p>	 <p>TE Part # CAT-AM7-22507 IDC D-Sub: Connector Kit, Plug, Signal, 1.27 mm</p>	 <p>TE Part # 5749193-1 50 50SR KIT,ST,UK</p>
 <p>TE Part # 5749080-1 50 50SR BSHLL KIT,M/J-SCR</p>	 <p>TE Part # 5749193-2 50 50SR KIT,ST,UK</p>	 <p>TE Part # 5749889-3 50 50SR KIT,ST,UK</p>	 <p>TE Part # 5390377-5 50 POS A/P PLUG 25 CL 30AU</p>
 <p>TE Part # 5749210-5 50 50SR CABLE RCPT ASSY</p>	 <p>TE Part # 786585-3 50SR SCREWLOCK KIT,BULK,FEMAL</p>	 <p>TE Part # 786585-2 50SR SCREWLOCK KIT,FEMALE</p>	 <p>TE Part # 749087-1 50SR SCREWLOCK KIT,FEMALE</p>
 <p>TE Part # 749087-2 50SR SCREWLOCK KIT,FEMALE</p>	 <p>TE Part # 749087-4 50SR SCREWLOCK KIT,FEMALE</p>	 <p>TE Part # 749087-3 50SR SCREWLOCK KIT,FEMALE</p>	 <p>TE Part # 5-749611-5 50 50SR PANEL MOUNT RCPT, ROHS</p>

Also in the Series | **AMPLIMITE 0.50 Series**



D-Sub Backshells & Clamps(31)



D-Sub Covers(20)



D-Sub Locking & Mounting(8)



IDC D-Sub Connectors(76)



Insertion & Extraction Tools(1)



PCB D-Sub Connectors(191)

Documents

Product Drawings

50 50SR PANEL MOUNT RCPT

English

CAD Files

3D PDF

English

Customer View Model

[ENG_CVM_1-749656-1_N.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_1-749656-1_N.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_1-749656-1_N.3d_stp.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-749656-1_L.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-749656-1_L.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-749656-1_L.3d_stp.zip](#)



English

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Datasheets & Catalog Pages

[AMPLIMITE Subminiature D Connectors - .050 Series Connector](#)

English

[AMPLIMITE .050 Series D-sub Connectors QRG](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL](#)

English