

1-747948-5 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HDE

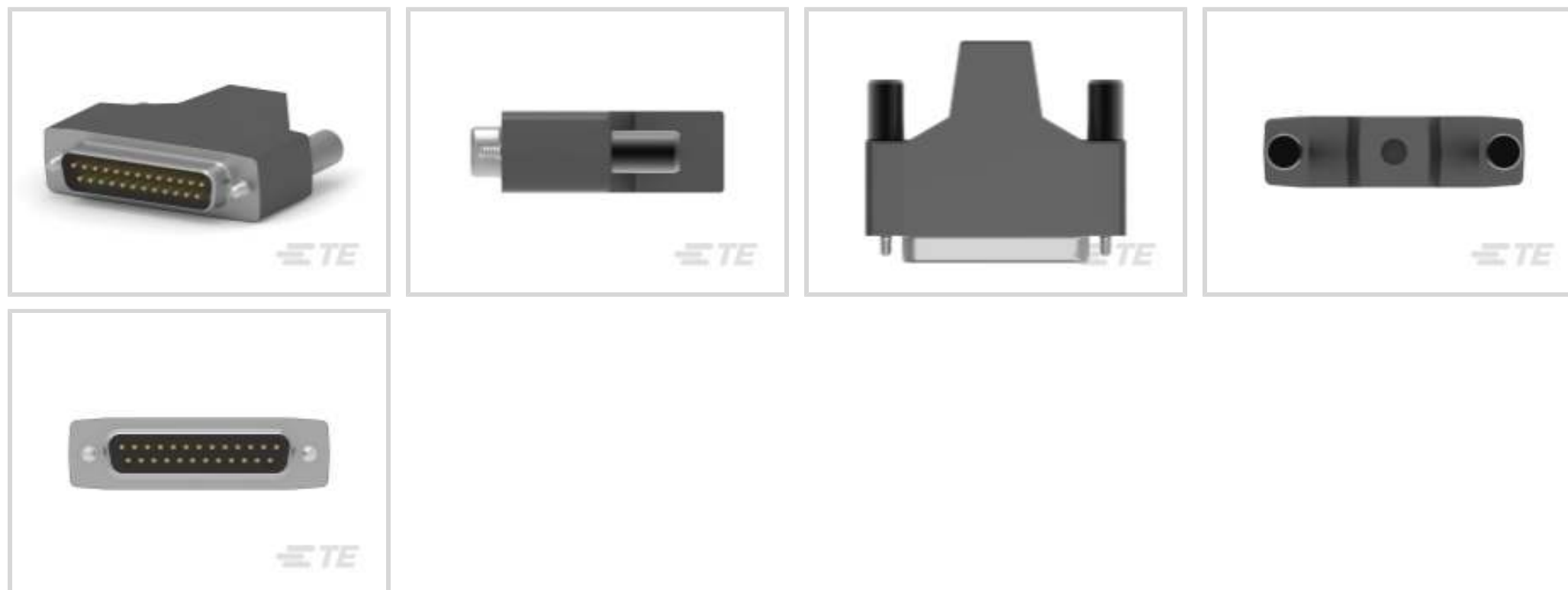
TE Internal #: 1-747948-5

IDC D-Sub Connectors, Plug, 30 – 26 AWG Solid Wire Size, .05 – .13 mm<sup>2</sup> Solid Wire Size, Shielded, Cable-to-Cable, 25 Position, AMPLIMITE HDE

[View on TE.com >](#)



Connectors > D-Shaped Connectors > D-Sub Connectors > IDC D-Sub Connectors > IDC D-Sub: Connector Kit, Plug, Wire to Wire, Signal, 2.77 mm



Connector & Housing Type: **Plug**

Solid Wire Size: **.05 – .13 mm<sup>2</sup>**

Shielded: **Yes**

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

[All IDC D-Sub: Connector Kit, Plug, Wire to Wire, 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 Kit     |
| Connector Shell Size              | 3                 |
| Connector & Contact Terminates To | Wire & Cable      |

### Configuration Features

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Number of Positions               | 25                                  |
| Number of Rows                    | 2                                   |
| Compatible With Wire & Cable Type | Discrete Wire, Round Jacketed Cable |

### Body Features

|                 |               |
|-----------------|---------------|
| Insert Material | Thermoplastic |
|-----------------|---------------|



|                                   |            |
|-----------------------------------|------------|
| Mating Retention Feature Material | Zinc Alloy |
|-----------------------------------|------------|

|                  |      |
|------------------|------|
| Cable Exit Angle | 180° |
|------------------|------|

|                         |     |
|-------------------------|-----|
| Shield Plating Material | Tin |
|-------------------------|-----|

|                 |       |
|-----------------|-------|
| Shield Material | Steel |
|-----------------|-------|

|                        |     |
|------------------------|-----|
| Shell Plating Material | Tin |
|------------------------|-----|

### Contact Features

|              |     |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

|  |     |
|--|-----|
| Wire Contact Termination Area Plating Material | Tin |
|--|-----|

|  |                |
|--|----------------|
| Contact Mating Area Plating Material Thickness | .76 μm[30 μin] |
|--|----------------|

|                                      |      |
|--------------------------------------|------|
| Contact Mating Area Plating Material | Gold |
|--------------------------------------|------|

|                               |        |
|-------------------------------|--------|
| Contact Underplating Material | Nickel |
|-------------------------------|--------|

|                       |                 |
|-----------------------|-----------------|
| Contact Base Material | Phosphor Bronze |
|-----------------------|-----------------|

|              |         |
|--------------|---------|
| Contact Size | Size 20 |
|--------------|---------|

|                              |     |
|------------------------------|-----|
| Contact Current Rating (Max) | 5 A |
|------------------------------|-----|

### Termination Features

|                                    |                               |
|------------------------------------|-------------------------------|
| Termination Method to Wire & Cable | Insulation Displacement (IDC) |
|------------------------------------|-------------------------------|

### Mechanical Attachment

|                  |      |
|------------------|------|
| Mating Retention | With |
|------------------|------|

|                         |      |
|-------------------------|------|
| Wire Insulation Support | With |
|-------------------------|------|

|                       |            |
|-----------------------|------------|
| Mating Retention Type | Jackscrews |
|-----------------------|------------|

|             |      |
|-------------|------|
| Thread Size | 4-40 |
|-------------|------|

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

### Housing Features

|                |       |
|----------------|-------|
| Shell Material | Steel |
|----------------|-------|

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 2.77 mm[.109 in] |
|--------------------|------------------|

### Dimensions

|                              |                   |
|------------------------------|-------------------|
| Accepts Cable Diameter (Max) | 11.05 mm[.435 in] |
|------------------------------|-------------------|

|   |                                 |
|---|---------------------------------|
| Accepts Cable Insulation Diameter Range | 5.51 – 11.05 mm[.217 – .435 in] |
|---|---------------------------------|

|                                      |                 |
|--------------------------------------|-----------------|
| Compatible Insulation Diameter Range | 1.52 mm[.06 in] |
|--------------------------------------|-----------------|

|                 |                           |
|-----------------|---------------------------|
| Solid Wire Size | .05 – .13 mm <sup>2</sup> |
|-----------------|---------------------------|

|           |                           |
|-----------|---------------------------|
| Wire Size | .05 – .15 mm <sup>2</sup> |
|-----------|---------------------------|

### Usage Conditions



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

**Operation/Application**

|                     |        |
|---------------------|--------|
| Shielded            | Yes    |
| Circuit Application | Signal |

**Industry Standards**

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

**Packaging Features**

|                    |         |
|--------------------|---------|
| Packaging Quantity | 1       |
| Packaging Method   | Package |

**Other**

|                             |   |
|-----------------------------|---|
| D-Shaped Connectors Comment | Maximum cable diameter after jacket and braid removed., There is a maximum Cable O.D. of 11.56 [.455] for Shielding Enclosure Expansion Tool 58241-1. |
|-----------------------------|---|

**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)<br>Candidate List Declared Against: JAN 2023 (233)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 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-023-DRARS3277  
D-Sub Receptacle Assembly: Right Angle, Shell Size 3, 2.77mm



TE Part # CAT-025-DRAVS3277  
D-Sub Receptacle Assembly: Vertical, Shell Size 3, 2.77mm



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-026-RAVSAP3277  
D-Sub Receptacle Assembly: Vertical, Action Pin, Shell Size 3, 2.77mm



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



TE Part # 58074-1  
MTA 50/100/156 MANUAL TOOL FRAME



TE Part # 7-1393740-2  
V42254A2216B225=SUB D FEDERLEI



TE Part # 8-1393480-3  
V23529B1223B225=SUB D FEDERLEI



TE Part # 3-1393480-0  
V23529B1122B225=SUB D FEDERLEI



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



TE Part # 1-1393480-9  
V23529B1121B225=SUB D FEDERLEI



TE Part # 8-1393480-4  
V23529B1223B237=SUB D FEDERLEI



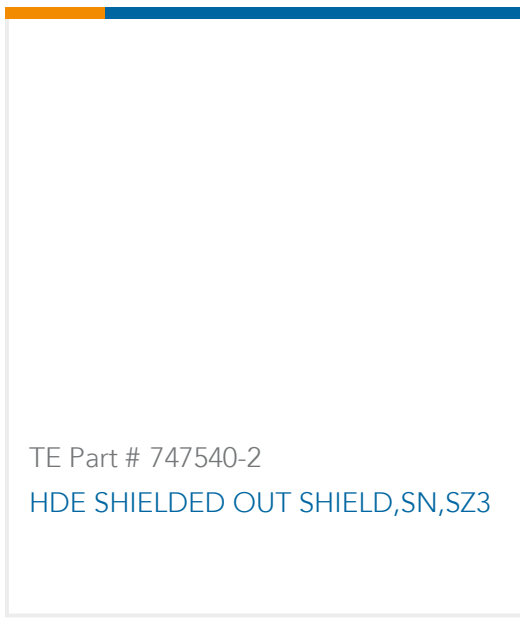
TE Part # 1393481-2  
V23529B1225B225=SUB D FEDERLEI



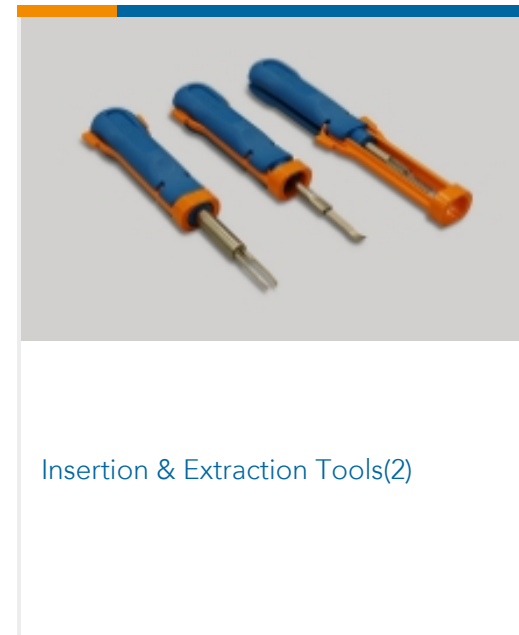
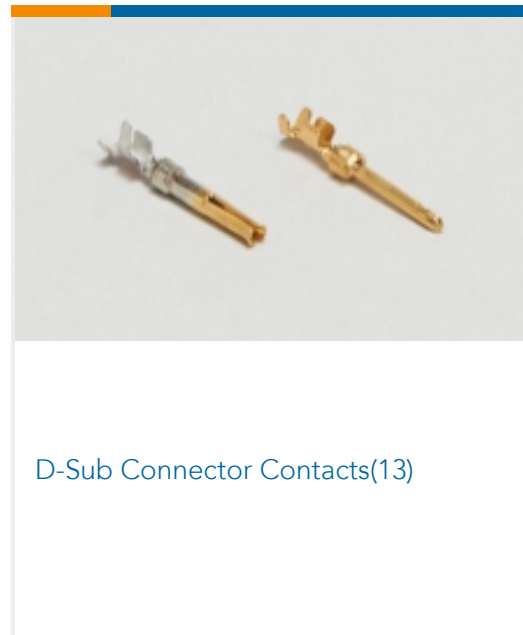
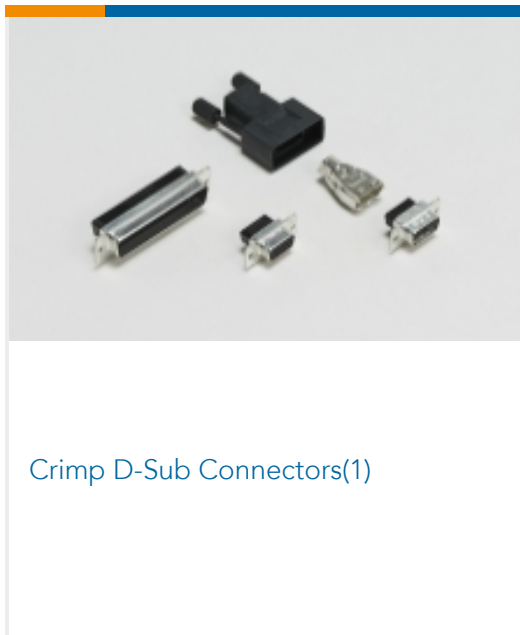
TE Part # 5-1393480-7  
V23529B1221B225=SUB D FEDERLEI



TE Part # 9-1393480-2  
V23529B1224B225=SUB D FEDERLEI



Also in the Series | **AMPLIMITE HDE**



Customers Also Bought





## Documents

### Product Drawings

[25 SHLDG ENCL PLUG, LEAD FREE](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-747948-5\\_N\\_c-1-747948-5-n.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-747948-5\\_N\\_c-1-747948-5-n.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-747948-5\\_N\\_c-1-747948-5-n.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[AMPLIMITE Subminiature D Connectors - Cable Connectors](#)

English

[AMPLIMITE Cable Connectors and Shielding Hardware Kits QRG](#)

English

### Product Specifications

[Application Specification](#)

English

[Application Specification](#)

English

### Product Environmental Compliance

[Product Compliance](#)

English

[Product Compliance](#)

English

### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

[Instruction Sheet \(U.S.\)](#)

English

### Agency Approvals

[UL Report](#)

English



[UL Report](#)

English