

229975-4 ✓ ACTIVE

CHAMP | CHAMP Docking Connectors

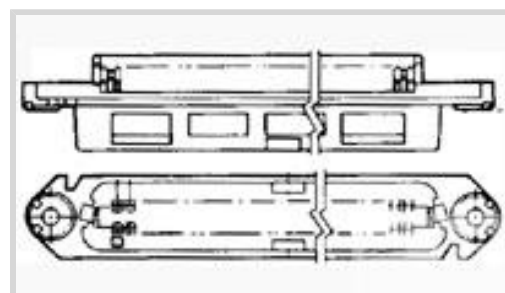
TE Internal #: 229975-4

IDC D-Sub Connectors, Receptacle, 26 – 24 AWG Solid Wire Size, .13 – .32 mm<sup>2</sup> Solid Wire Size, 24 AWG Stranded Wire, CHAMP Docking Connectors

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Connectors > D-Shaped Connectors > D-Sub Connectors > IDC D-Sub Connectors > IDC D-Sub: Receptacle Assembly, Signal, 2.16 mm



Connector & Housing Type: **Receptacle**

Solid Wire Size: **.13 – .32 mm<sup>2</sup>**

Stranded Wire Size: **.33 mm<sup>2</sup>**

[All IDC D-Sub: Receptacle Assembly, Signal, 2.16 mm \(21\)](#)

## Features

### Product Type Features

|                                   |                    |
|-----------------------------------|--------------------|
| Connector Classification          | IDC                |
| Profile                           | Standard           |
| Slot Type Letter Code             | B                  |
| Product Category                  | Connectors         |
| Connector & Housing Type          | Receptacle         |
| Connector System                  | Cable-to-Cable     |
| 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 | Discrete Wire, Round Jacketed Cable |

### Body Features

|       |      |
|-------|------|
| Color | Gray |
|-------|------|

### Contact Features

|                                       |  |
|---------------------------------------|--|
| Contact Mating Area Plating Thickness | .76 μm[30 μin]                         |
| Contact Mating Area Plating Material  | Gold, Gold Flash over Palladium Nickel |



|                               |                  |
|-------------------------------|------------------|
| Contact Underplating Material | Palladium Nickel |
| Contact Base Material         | Copper Alloy     |
| Contact Current Rating (Max)  | 3.5 A            |

#### Mechanical Attachment

|                            |                            |
|----------------------------|----------------------------|
| Flange Thickness           | Thick                      |
| Mating Connector Lock      | With                       |
| Mating Connector Lock Type | Screwlocks                 |
| Panel Mount Feature        | Without                    |
| Screw & Hole Thread Size   | 4-40 UNC 2B                |
| Connector Mounting Type    | Cable Mount (Free-Hanging) |

#### Housing Features

|                               |                  |
|-------------------------------|------------------|
| Housing Material              | Thermoplastic    |
| Housing Color Dot Designation | Blue             |
| Centerline (Pitch)            | 2.16 mm[.085 in] |

#### Dimensions

|                           |                           |
|---------------------------|---------------------------|
| Insulation Diameter (Max) | 1.14 mm[.045 in]          |
| Solid Wire Size           | .13 – .32 mm <sup>2</sup> |
| Stranded Wire Size        | .33 mm <sup>2</sup>       |
| Wire Size                 | 24 AWG                    |

#### Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 75 °C[-40 – 167 °F] |
|-----------------------------|---------------------------|

#### Operation/Application

|                     |        |
|---------------------|--------|
| Shielded            | No     |
| Circuit Application | Signal |

#### Packaging Features

|                    |                     |
|--------------------|---------------------|
| Packaging Method   | Box & Tray, Package |
| Packaging Quantity | 100                 |

#### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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)<br>Candidate List Declared Against: JUNE 2022 (224)<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-357-D658  
IDC D-Sub: Plug Assembly, Signal, Cable to Cable, 2.16 mm



TE Part # 2-552001-1  
ASSY, RCPT, 50 POS, B SLOT




TE Part # 229378-1  
ASSY, MI-1 TOOL, STD 14-50 POSN


### Also in the Series | CHAMP Docking Connectors



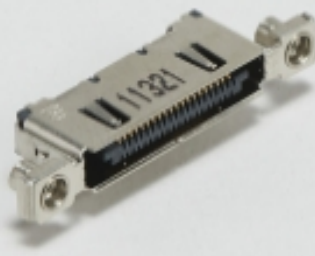
D-Sub Covers(28)



D-Sub Locking & Mounting(29)



Docking Connector Guide Hardware(5)



Docking Connectors(31)



IDC D-Sub Connectors(79)



PCB D-Sub Connectors(1)

## Documents

### Product Drawings

[ASSY,RCPT,50POS,B SLOT,GRY HSG](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_229975-4\\_AB.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_229975-4\\_AB.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_229975-4\\_AB.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English

### Agency Approvals

[UL Report](#)

English

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