

229974-1 ✓ ACTIVE

CHAMP | CHAMP Docking Connectors

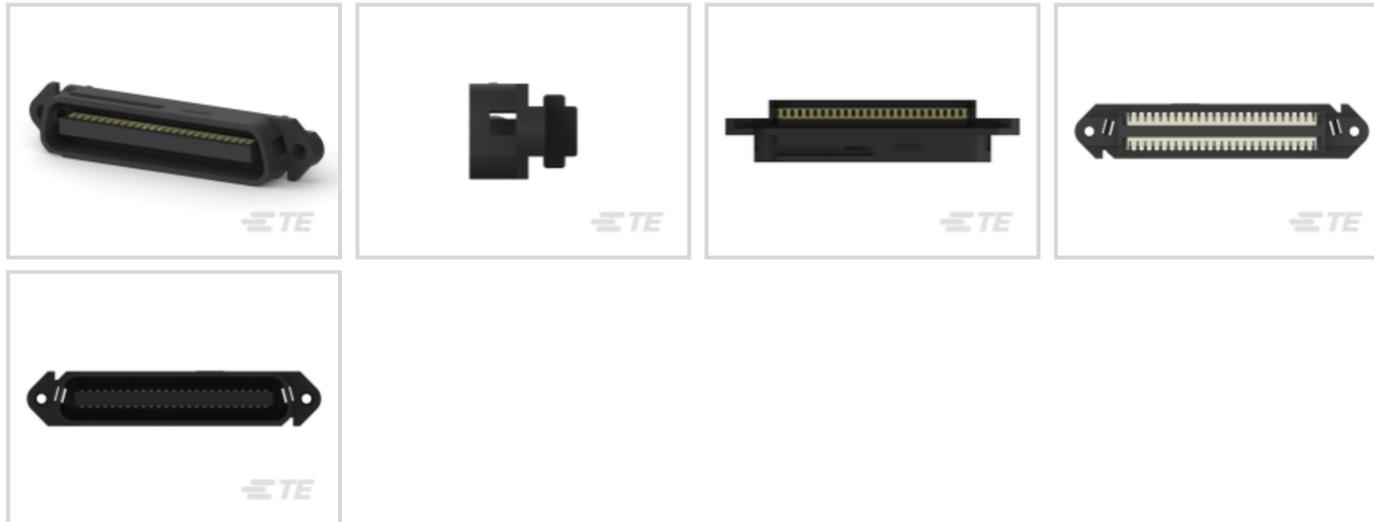
TE Internal #: 229974-1

IDC D-Sub Connectors, Plug, Cable-to-Cable, 50 / 64 / 36 Position,
2.16 mm [.085 in] Centerline, 2 Row, Connector Assembly, CHAMP
Docking Connectors

[View on TE.com >](#)



Connectors > D-Shaped Connectors > D-Sub Connectors > IDC D-Sub Connectors > IDC D-Sub: Plug Assembly, Signal, Cable to Cable, 2.16 mm



Connector & Housing Type: **Plug**

Shielded: **No**

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

Number of Positions: **14, 24, 36, 50, 64**

Centerline (Pitch): **2.16 mm [.085 in]**

[All IDC D-Sub: Plug Assembly, Signal, Cable to Cable, 2.16 mm \(26\)](#)

Features

Product Type Features

Connector Classification	IDC
Profile	Standard
Slot Type Letter Code	B
Product Category	Connectors
Connector & Housing Type	Plug
Connector System	Cable-to-Cable
Connector Product Type	Connector Assembly
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	14, 24, 36, 50, 64
Number of Rows	2
Compatible With Wire & Cable Type	Discrete Wire, Ribbon Cable, Round



Jacketed Cable

Body Features

Color	Black
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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)	1 A, 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]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C, -40 – 75 °C[-67 – 221 °F][-40 – 167 °F]
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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>](#)

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	Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
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

 <p>TE Part # CAT-357-D650155 IDC D-Sub: Receptacle Kit, Signal, 50, 2.16 mm</p>	 <p>TE Part # CAT-063-DSRC90216 D-Sub Shielded Receptacle Assembly: Right Angle, 2.16mm</p>	 <p>TE Part # CAT-357-D601 IDC D-Sub: Receptacle Assembly, Signal, 2.16 mm</p>	 <p>TE Part # CAT-357-D65015 IDC D-Sub: Connector Kit, Plug, Signal, 2.16 mm</p>
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TE Part # CAT-357-D658
IDC D-Sub: Plug Assembly, Signal, Cable to Cable, 2.16 mm



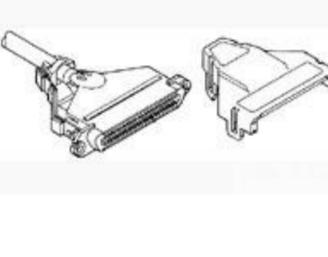
TE Part # CAT-063-DRC90216
D-Sub Receptacle Assembly: Right Angle, 2.16mm



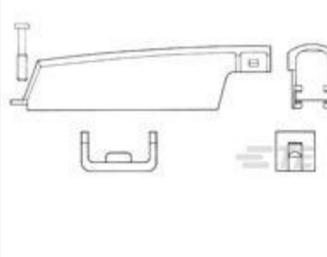
TE Part # 229378-1
ASSY, MI-1 TOOL, STD 14-50 POSN



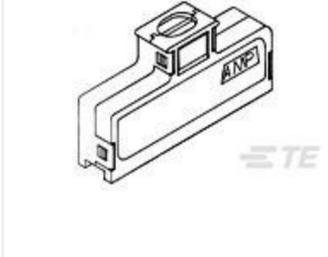
TE Part # 5552726-3
ASSY, PLUG, 50 POSN, RTANG, PCB



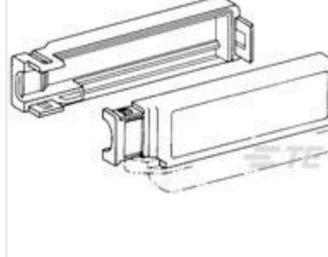
TE Part # 554944-1
COVER KIT, 180 DEG, 24 POS, SHLD



TE Part # 5552560-5
COVER KIT TAPERED 50 POS



TE Part # 552082-1
180 DEG COVER KIT 64 POS



TE Part # 1-552496-1
90 DEG COVER KIT-64 POS BLK



TE Part # 554808-1
HDW KIT, STDOFF STUD METRIC



TE Part # 552008-1
KIT, COVER, 180, 50 POS



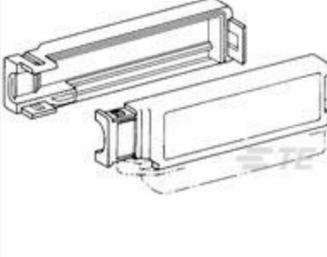
TE Part # 2-552008-1
KIT, COVER, 180, 50 POS



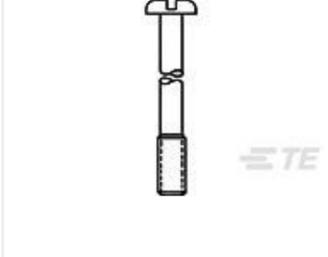
TE Part # 5552561-3
HDWARE ASSY KIT



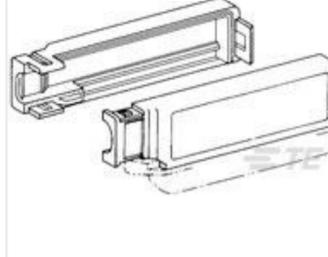
TE Part # 5229996-3
SCREW, PAN HD, CAPTIVE



TE Part # 552011-1
90 DEG COVER KIT 50 POS BLACK



TE Part # 5229911-1
SCREW, PAN HD, "CHAMP PACKAGING



TE Part # 3-552414-1
90 DEG COVER KIT 36 POS BLK

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, PLUG, 50 POS, B SLOT](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_229974-1_AB.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_229974-1_AB.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_229974-1_AB.3d_stp.zip](#)

English

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

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_229974-1_0729201533_dmtec](#)

English

[MD_229974-1_0729201533_dmtec](#)

English

Agency Approvals

[UL Report](#)

English

[UL Report](#)

English