

1-111196-8 ✓ ACTIVE

AMP-LATCH

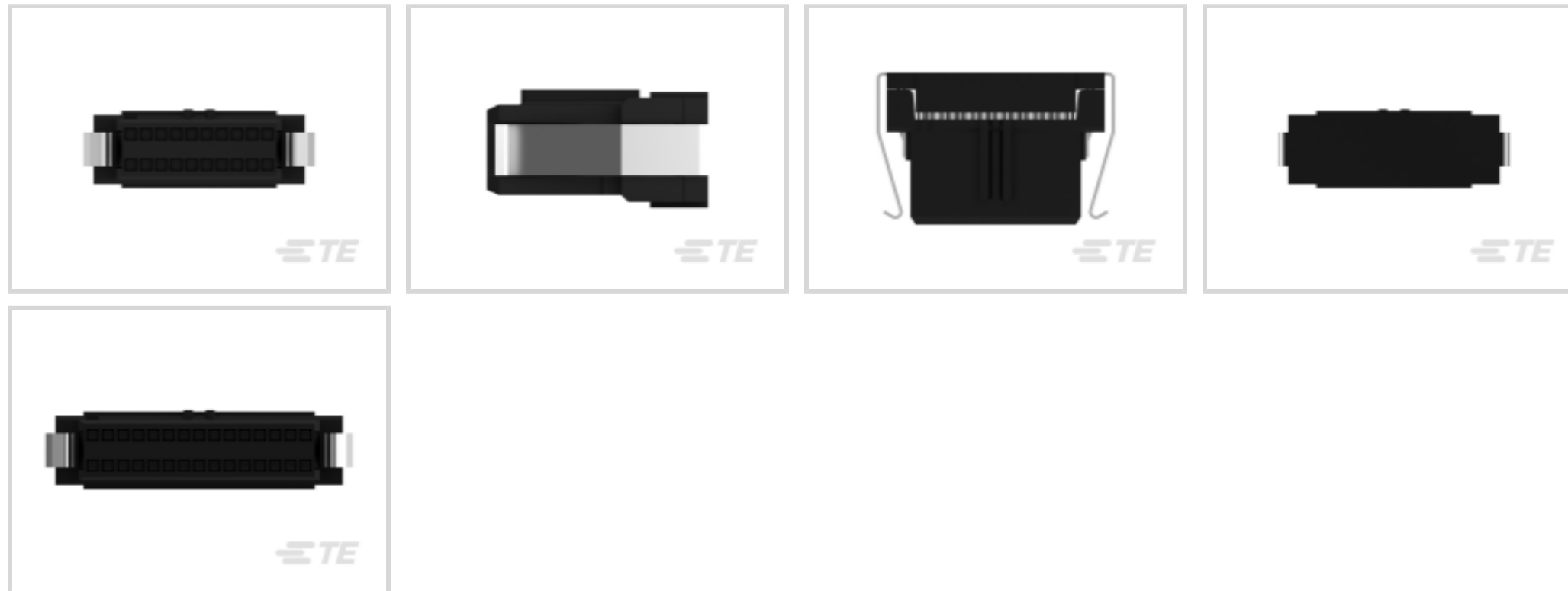
TE Internal #: 1-111196-8

Ribbon Cable Connectors, Cable-to-Board, 20 Position, .05 in [1.27 mm] Centerline, Insulation Displacement (IDC), 2 Row, Receptacle

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Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors



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

Number of Positions: **20**

Centerline (Pitch): **1.27 mm [.05 in]**

Termination Method to Wire & Cable: **Insulation Displacement (IDC)**

Row-to-Row Spacing: **2.54 mm [.1 in]**

Features

Product Type Features

Connector Type	Connector Assembly
Connector Product Type	Connector Assembly
Connector System	Cable-to-Board
Connector & Housing Type	Receptacle
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Compatible With Wire & Cable Type	Ribbon Cable
Number of Positions	20
Number of Rows	2

Electrical Characteristics

Insulation Resistance	5000 M Ω
Operating Voltage	30 VAC

Body Features



Mating Retention Feature Material	Stainless Steel
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Contact Features

Contact Layout	Matrix
Mating Square Post Dimension	.38 mm[.015 in]
Mating Pin Diameter	.38 mm[.015 in]
Wire Contact Termination Area Plating Thickness	2.54 – 5.08 μ m[100 – 200 μ in]
Wire Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.762 μ m[30 μ in]
Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.5 A

Termination Features

Square Termination Post & Tail Dimension	.38 mm[.015 in]
Round Termination Post & Tail Diameter	.38 mm[.015 in]
Termination Method to Wire & Cable	Insulation Displacement (IDC)

Mechanical Attachment

Mating Alignment	With
Panel Mount Feature	Without
Mating Alignment Type	Polarization
Mating Retention	With
Mating Retention Type	Latch
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

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

Dimensions

Connector Length	17.78 mm[.7 in]
Connector Height	12.32 mm[.485 in]
Connector Width	6.45 mm[.254 in]
Row-to-Row Spacing	2.54 mm[.1 in]



Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

CSA File Number	LR 7189
UL Rating	Recognized
Agency/Standard	CSA, UL
UL File Number	E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	70
Packaging Method	Tray

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: JAN 2022 (223) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 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



TE Part # 5-104549-2
20 SYS50 S/M HDR DRST SHRDSN



TE Part # 5-104068-1
20 SYSTEM 50 HDR DRST SHRD



TE Part # 5-147377-2
20 SYS50 SMT HDR DR SHD SN



TE Part # 5-104666-1
20 SYSTEM 50 HDR DRST SHRD SN



TE Part # 5-104477-2
20 SYSTEM 50 HDR DRRR SHRD SN



TE Part # 5-104069-1
20 sys 50 hdr drrr shrd sn



TE Part # 2-1825601-0
20 SYS50 SMT HDR DR SHD W/O CAP

Customers Also Bought



TE Part #5-643813-0
20P MTA100 CONN ASSY POL RIB



TE Part #414002-2
PLUG,CABLE,RTANG,SMB,AUPLTD



TE Part #3-111196-4
68 RCPT SYSTEM 50 30 DPLX



TE Part #5-104068-3
30 SYSTEM 50 HDR DRST SHRD




TE Part #5-104549-5
30 SYS50 S/M HDR DRST SHRDSN



TE Part #1-215570-4
MICRO-MATCH PBC.14P



TE Part #2-2176246-5
CRGS2512 5% 100R



TE Part #1902937-1
C/A, BATTERY, BLUNT CUT, 24 IN LONG



Documents

Product Drawings

[20 RCPT SYSTEM 50, LEAD FREE](#)

English

CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG_CVM_CVM_1-111196-8_S.2d_dxf.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_1-111196-8_S.3d_igs.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_1-111196-8_S.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[AMPMODU_INTERCONNECTION_SYSTEM_SECTION3AND4](#)

English

[Ribbon Cable Interconnect Solutions](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_1-111196-8_092220171233_dmtec](#)

English

[MD_1-111196-8_092220171233_dmtec](#)

English

Agency Approvals

[Agency Approval Document](#)

1-111196-8

Ribbon Cable Connectors, Cable-to-Board, 20 Position, .05 in [1.27 mm] Centerline,
Insulation Displacement (IDC), 2 Row, Receptacle



English