

1-103309-0 ✓ ACTIVE

AMP-LATCH

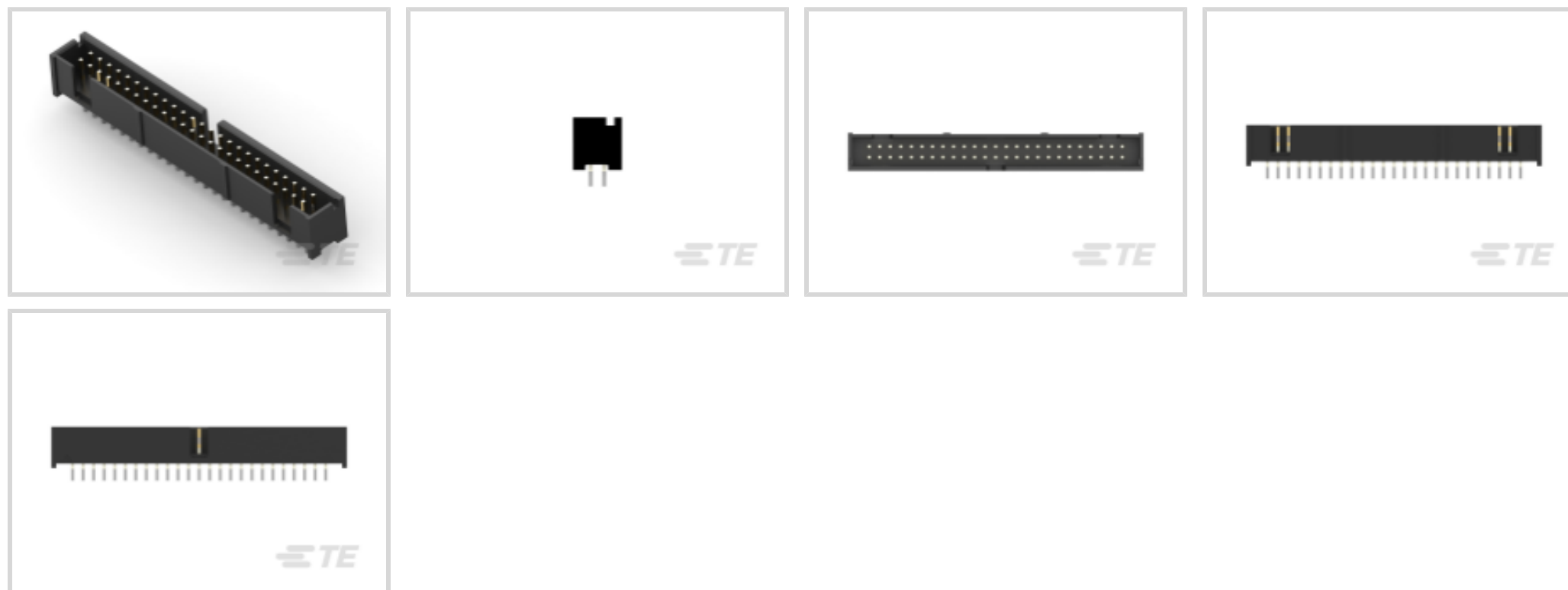
TE Internal #: 1-103309-0

Ribbon Cable Connectors, Board-to-Board, 50 Position, .1 in [2.54 mm] Centerline, Vertical, Through Hole - Solder, 2 Row, Receptacle, Low Profile

[View on TE.com >](#)



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



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

Number of Positions: **50**

Centerline (Pitch): **2.54 mm [.1 in]**

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

Features

Product Type Features

Connector Type	Header
Ribbon Cable Connector Header Type	Pin Header
Connector Product Type	Connector Assembly
Connector System	Board-to-Board
Connector & Housing Type	Receptacle
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	50
PCB Mount Orientation	Vertical
Number of Rows	2

Electrical Characteristics

Insulation Resistance	5000 M Ω
-----------------------	-----------------

Body Features

Daisy Chain	With
-------------	------



Connector Profile	Low
-------------------	-----

Contact Features

Mating Square Post Dimension	.64 mm[.025 in]
------------------------------	-----------------

PCB Contact Termination Area Plating Material Thickness	2.54 μ m[100 μ in]
---	----------------------------

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

	30 μ in
--	-------------

Contact Mating Area Plating Material	Gold, Gold Flash
--------------------------------------	------------------

Contact Shape & Form	Square
----------------------	--------

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

PCB Contact Termination Area Plating Material	Tin-Lead
---	----------

Contact Base Material	Copper Alloy
-----------------------	--------------

Contact Current Rating (Max)	1 A
------------------------------	-----

Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
--	-----------------

Termination Post & Tail Length	3.05 mm[.12 in]
--------------------------------	-----------------

Termination Method to Printed Circuit Board	Through Hole - Solder
---	-----------------------

Mechanical Attachment

Mating Alignment	With
------------------	------

PCB Mount Alignment	With
---------------------	------

Panel Mount Feature	Without
---------------------	---------

PCB Mount Retention	Without
---------------------	---------

Mating Alignment Type	Center, Dual Polarizing Bar
-----------------------	-----------------------------

Mating Retention	Without
------------------	---------

Connector Mounting Type	Board Mount
-------------------------	-------------

Housing Features

Housing Material	Thermoplastic
------------------	---------------

Housing Color	Black
---------------	-------

Centerline (Pitch)	2.54 mm[.1 in]
--------------------	----------------

Dimensions

Connector Length	2.8 mm, 71.12 mm
------------------	------------------

Shrouded End Dimension	3.81 mm[.15 in]
------------------------	-----------------

Connector Height	9.77 mm[.38 in]
------------------	-----------------



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

Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]

Operation/Application

Solder Process Feature	Solder Dipped
Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	35
Packaging Method	Tube

Product Compliance

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

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	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) SVHC > Threshold: Pb (13% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Not lead free process capable

Product Compliance Disclaimer

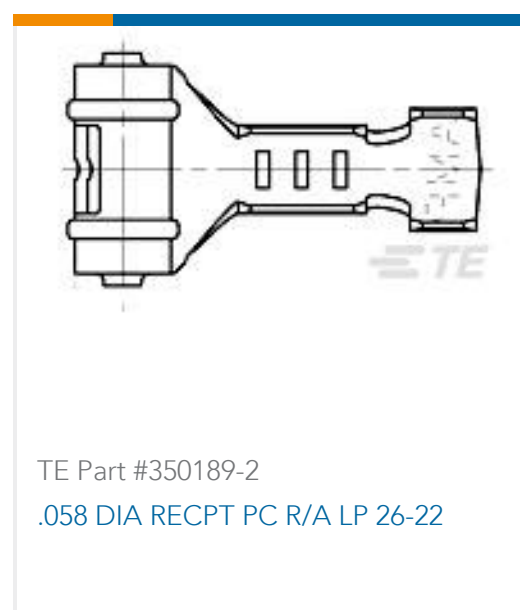
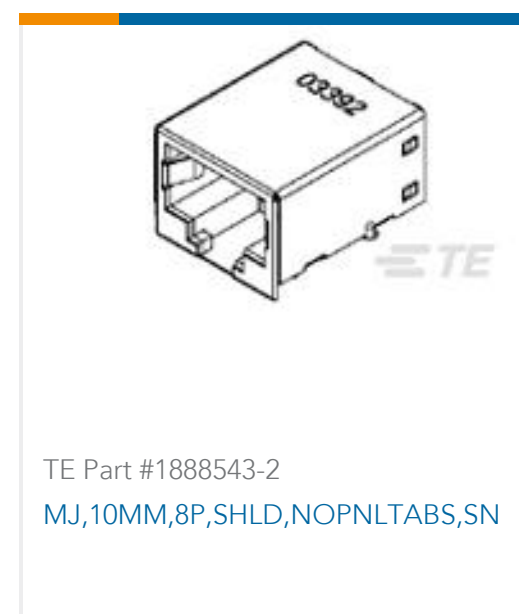
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



Customers Also Bought



Documents

Product Drawings

050 LOPRO HDR SP 30DP

English



CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-103309-0_N.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-103309-0_N.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-103309-0_N.3d_stp.zip](#)

English

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

Product Specifications

Product Specification

English

Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

Agency Approval Document

English