

3-647002-7 ✓ ACTIVE

MTA 100

TE Internal #: 3-647002-7

Standard Rectangular Connectors, Connector Assembly, Plug, Mating Alignment, Polarization Mating Alignment Type, Mating Retention, MTA 100

[View on TE.com >](#)



Connectors > Rectangular Connectors > Standard Rectangular Connectors > MTA Plug: Nylon, Tin Plated, 2.54 mm, with Mating Alignment



Connector Product Type: **Connector Assembly**

Connector & Housing Type: **Plug**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Mating Retention: **With**

[All MTA Plug: Nylon, Tin Plated, 2.54 mm, with Mating Alignment \(81\)](#)

Features

Product Type Features

Product Style	Assembly
Shape	Rectangular
Wire/Cable Type	Stranded
Connector Type	Connector Assembly
Connector Product Type	Connector Assembly
Connector & Housing Type	Plug
Connector System	Wire-to-Wire
Insertion Force Type	Normal
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Cavities	7
Number of Positions	7



Number of Rows	1
----------------	---

Electrical Characteristics

Operating Voltage	250 VAC
-------------------	---------

Contact Features

Contact Type	Tab
--------------	-----

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

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

Contact Mating Area Plating Material	Tin
--------------------------------------	-----

Contact Retention Within Housing	With
----------------------------------	------

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

Termination Features

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

Mechanical Attachment

Panel Mount	No
-------------	----

Contact Retention Type Within Housing	Locking Lance
---------------------------------------	---------------

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

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

Mating Alignment Type	Polarization
-----------------------	--------------

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

Mating Retention Type	Latch
-----------------------	-------

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

Housing Features

Housing Color	Blue
---------------	------

Housing Material	Nylon 6/6
------------------	-----------

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

Dimensions

Width	21.4 mm[.843 in]
-------	------------------

Height	12.54 mm[.494 in]
--------	-------------------

Length	20.32 mm[.8 in]
--------	-----------------

Wire Size	.12 – .15 mm ²
-----------	---------------------------

Usage Conditions

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



Operation/Application

Shielded	No
Circuit Application	Signal

Industry Standards

CSA Rating	LR 7189
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	LR 7189
UL File Number	E28476
UL Flammability Rating	UL 94V-2

Packaging Features

Packaging Quantity	100
Packaging Method	Bag/Box

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 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



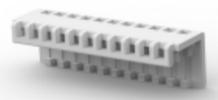
TE Part # CAT-104MTA-NTPNR
MTA Receptacle: Nylon, Tin Plated, 2.54 mm



TE Part # CAT-104MTA-NTPMR
Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100



TE Part # CAT-104MTA-PLSCC
Polyester PCB Connector Covers: 2.54 mm, MTA 100



TE Part # CAT-104MTA-NYLCC
Nylon PCB Connector Covers: 2.54 mm, MTA 100



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



TE Part # 58638-1
MTA 100 CRIMP HEAD PRODUCTION POSTED



TE Part # 58639-1
MTA 100 POSTED MANUAL TOOL ASSEMBLY

Also in the Series | MTA 100



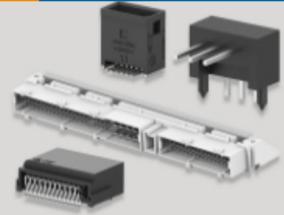
Insertion & Extraction Tools(2)



PCB Connector Covers(107)



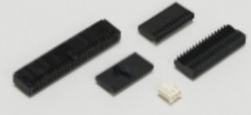
PCB Connector Keying(1)



PCB Headers & Receptacles(1181)



Standard Rectangular Connectors (1718)



Wire-to-Board Connector Assemblies & Housings(1)



Wire-to-Board Connector Contacts(18)

Documents

Product Drawings

07P MTA100 PSTD CONN ASSY LF

English



CAD Files

Customer View Model

[ENG_CVM_CVM_3-647002-7_D.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_3-647002-7_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-647002-7_D.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[MTA, CST-100 II, SL-156 and AMP Economy Power \(EP\) Connectors](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English