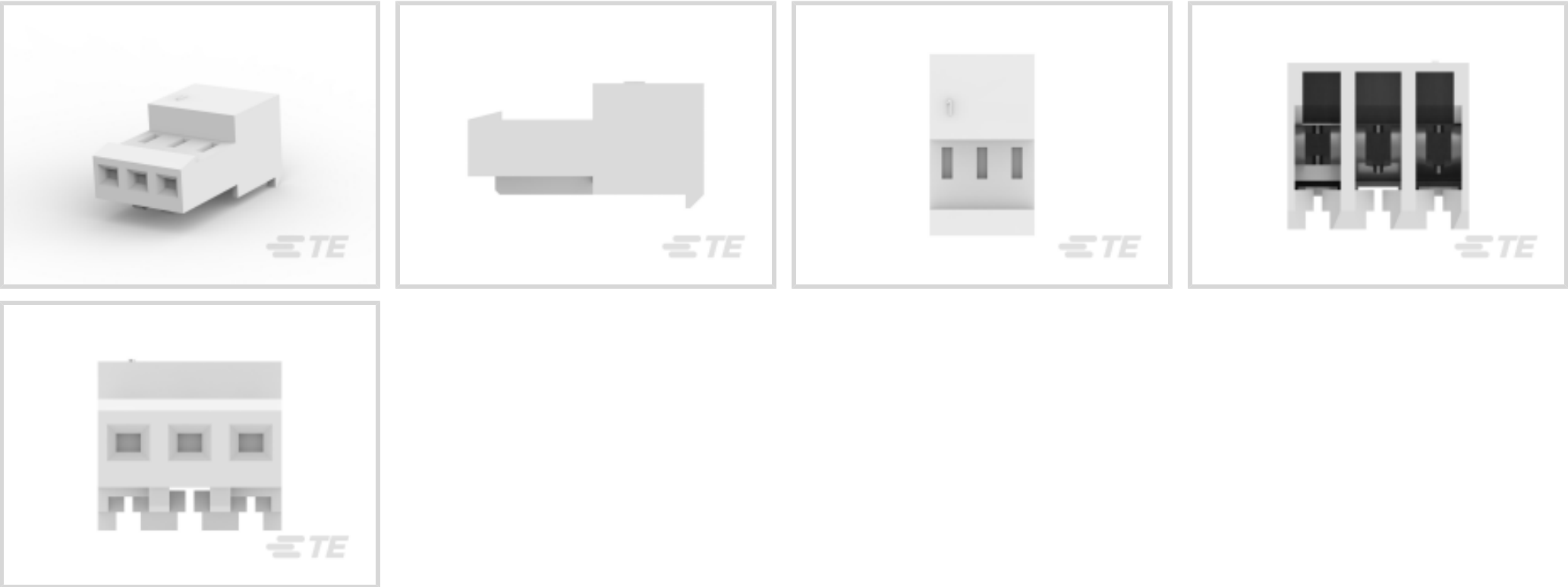




Connectors > Rectangular Connectors > Standard Rectangular Connectors



Connector Product Type: **Connector Assembly**  
Connector & Housing Type: **Receptacle**  
Mating Alignment: **Without**  
Mating Retention: **With**  
Mating Retention Type: **Locking Ramp**

Features

Product Type Features

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

Configuration Features

Number of Cavities	3
Number of Positions	3



Number of Rows	1
Panel Gasket	Without

Electrical Characteristics

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

Contact Features

Contact Layout	In-line
Contact Type	Female
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 Crimp (IDC)
------------------------------------	-------------------------------------

Mechanical Attachment

Panel Mount	No
Contact Retention Type Within Housing	Locking Lance
Panel Mount Feature	Without
Mating Alignment	Without
Mating Retention	With
Mating Retention Type	Locking Ramp
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Color	White
Housing Material	Nylon 6/6
Centerline (Pitch)	2.54 mm[.1 in]

Dimensions

Width	6.99 mm[.275 in]
Height	13.21 mm[.52 in]
Length	7.62 mm[.3 in]
Wire Size	.2 mm²

Usage Conditions



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

Operation/Application

Shielded	No
Circuit Application	Signal

Industry Standards

CSA Rating	Certified
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	LR7189
UL File Number	E28476
UL Flammability Rating	UL 94V-2

Packaging Features

Packaging Quantity	500
Packaging Method	Box & Carton

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 2020 (205) Candidate List Declared Against: JAN 2020 (205) Does not contain REACH SVHC
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JAN 2020 (205)
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

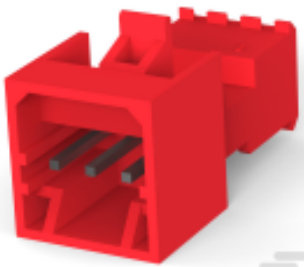
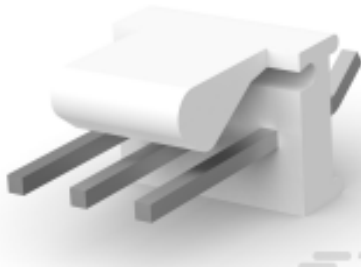


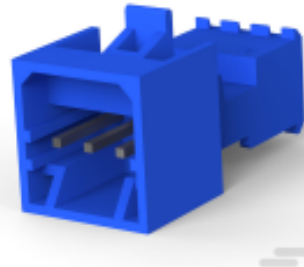


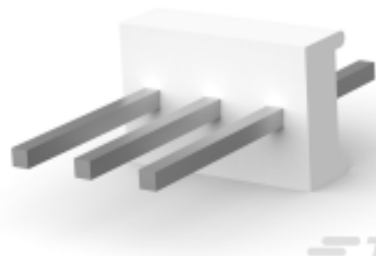
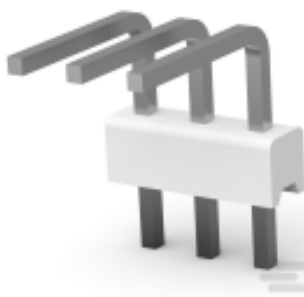
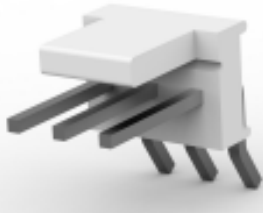
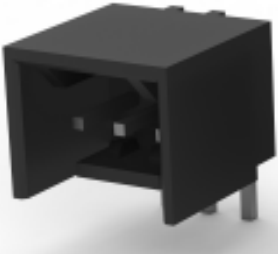
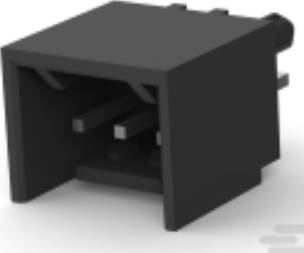
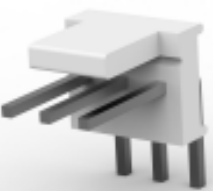
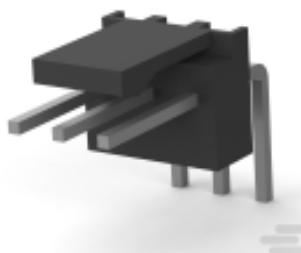
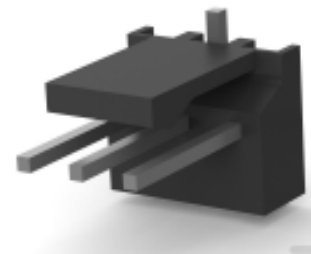
Product Compliance Disclaimer

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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

 TE Model / Part # 647000-3 03P MTA100 PSTD CONN ASSY SN	 TE Model / Part # 644874-3 03P MTA100 HDR ASSY,SPCL BEND	 TE Model / Part # 58579-1 MTA 100 MANUAL TOOL ASSEMBLY DISCRETE	 TE Model / Part # 58074-1 MTA 50/100/156 MANUAL TOOL FRAME
 TE Model / Part # 3-647002-3 03P MTA100 PSTD CONN ASSY LF	 TE Model / Part # 58246-1 MTA 100 CRIMP HEAD REPAIR DISCRETE	 TE Model / Part # 2-644803-3 03P MTA100 SHRD HDR ASSY RA FL	 TE Model / Part # 640452-3 03P MTA100 HDR ASSY SQ STR
 TE Model / Part # 3-644457-3 03P MTA100 HDR ASSY R/A NARROW	 TE Model / Part # 644877-3 03P MTA100 HDR ASY POL,RET BND	 TE Model / Part # 3-647000-3 03P MTA100 PSTD CONN ASSY LF	 TE Model / Part # 2-644488-3 03P MTA100 SHRD HDR F/L R/A SN
 TE Model / Part # 2-644486-3 03P MTA100 SHRDED HDR ASSY SN	 TE Model / Part # 640455-3 03P MTA100 HDR ASSY SQ R/A POL	 TE Model / Part # 3-647630-3 03P MTA100 HRD ASSY F/L LF	 TE Model / Part # 3-647166-3 3P MTA100 HDR ASSY,SM,FL,LF







TE Model / Part # 2-644861-3  
03P MTA100 SHRD HDR,W/O PEG SN



TE Model / Part # 640453-3  
03P MTA100 HDR ASSY SQ R/A



TE Model / Part # 3-644695-3  
03P MTA100 STR HDR RETENTIVE




TE Model / Part # 640457-3  
03P MTA100 HDR ASSY SQ R/A F/L


Also in the Series | MTA 100




PCB Connector Covers(107)



PCB Connector Keying(1)



Standard Rectangular Connectors  
(1730)



Wire-to-Board Connector Contacts(18)




Wire-to-Board Headers & Receptacles  
(1190)


Customers Also Bought



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



TE Model / Part #59803-1  
MAINTENANCE TOOL



TE Model / Part #58246-1  
MTA 100 CRIMP HEAD REPAIR  
DISCRETE



TE Model / Part #3-640441-6  
06P MTA100 CONN ASSY WHT  
DISCRETE



TE Model / Part #3-640426-3  
03P MTA156 CONN ASSY 18AWG  
ORA



TE Model / Part #3-640441-4  
04P MTA100 CONN ASSY WHT



TE Model / Part #640456-4  
04P MTA100 HDR ASSY F/L SQ STR



TE Model / Part #3-640441-2  
02P MTA100 CONN ASSY WHT



Documents

Product Drawings

03P MTA100 CONN ASSY WHT

English

CAD Files

3D PDF

English

Customer View Model

ENG\_CVM\_3-640441-3\_N.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_3-640441-3\_N.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_3-640441-3\_N.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

Product Environmental Compliance

TE Material Declaration

English

MD\_3-640441-3\_060720181315\_dmtec

English

MD\_3-640441-3\_060720181315\_dmtec

English

Agency Approvals

UL Report



English

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LOC

DIST

REVISIONS

P

LTR

DESCRIPTION

DATE

DWN

APVD

P

REVISED PER ECR-20-000721

04MAR2020

PC

SW

YES

71.12[2.800]

28

5-640441-8

YES

68.58[2.700]

27

5-640441-7

YES

66.04[2.600]

26

5-640441-6

YES

63.50[2.500]

25

5-640441-5

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60.96[2.400]

24

5-640441-4

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58.42[2.300]

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5-640441-3

YES

55.88[2.200]

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5-640441-2

YES

53.34[2.100]

21

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YES

50.80[2.000]

20

5-640441-0

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48.26[1.900]

19

4-640441-9

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45.72[1.800]

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30.48[1.200]

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27.94[1.100]

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25.40[1.000]

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22.86[.900]

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3-640441-9

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20.32[.800]

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17.78[.700]

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3-640441-7

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SUPERCEDED BY 3-640441-5

NO

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640441-4

SUPERCEDED BY 3-640441-4

NO

7.62[.300]

3

640441-3

SUPERCEDED BY 3-640441-3

NO

5.08[.200]

2

640441-2

SUPERCEDED BY 3-640441-2

LEADFREE

DIM A

NO. OF CIRCUITS

PART NO.

AMP

1

2

3

1

2

3

6.99  
[.275]

6.22  
[.245]

13.21  
[.520]

6.99  
[.275]

1.91  
[.075]

1.42±0.10  
[.056±.004]

4.67±0.08  
[.184±.003]

3.66±0.08  
[.144±.003]

A

+0.38  
-0.25

A

+0.015  
-0.010

2.54  
[.100]  
TYP

1

MATERIAL: CONNECTOR - NYLON UL94V-2 (WHITE).  
CONTACTS - 0.30[.012] THICK COPPER ALLOY  
BRIGHT TIN-LEAD .00203[.000080] MIN THICKNESS  
FOR 640441-2 THRU 2-640441-8.  
MATTE WHISKER MITIGATED TIN .00203[.000080] MIN THICKNESS  
OVER NICKEL UNDERPLATE FOR 3-640441-2 THRU 5-640441-8.

2.

CONTACTS ACCEPT 24 AWG WIRE WITH 1.52[.060] MAX  
INSULATION DIAMETER.

3.

CONTACTS MUST ACCEPT 0.64±0.03[.025]  
POST AND REMAIN LOCKED IN POSITION.

4

IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY  
NOT APPEAR ON ALL ASSEMBLIES.

5.

DIMENSIONS IN BRACKETS ARE IN INCHES.

6.

HOUSING FEATURES ARE: CLOSED END WITH LOCKING  
RAMP.

7

OBSOLETE PARTS

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm [INCHES]

0 PLC ±  
1 PLC ±  
2 PLC ±  
3 PLC ± 0.13 [005]  
4 PLC ±  
ANGLES ±

MATERIAL

1

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

1

FINISH

1

DWN  
S. CARPENTER  
09JUN2003

CHK  
D. BOSSI  
09JUN2003

APVD  
D. BOSSI  
09JUN2003

PRODUCT SPEC  
108-1050

APPLICATION SPEC  
114-1019

WEIGHT

CUSTOMER DRAWING

TE

TE Connectivity

NAME

MTA-100 CONNECTOR ASSEMBLY,  
24 AWG, STANDARD

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A2

00779

C=640441

-

SCALE

5:1

SHEET

1 of 1

REV

P

1471-9 (3/11)

2D