# 3-643815-2 ACTIVE

#### MTA 100

TE Internal #: 3-643815-2

Standard Rectangular Connectors, Connector Assembly, Receptacle, Mating Alignment, Polarization Mating Alignment

Type, Mating Retention, MTA 100

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Connectors > Rectangular Connectors > Standard Rectangular Connectors > Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100











Connector Product Type: Connector Assembly

Connector & Housing Type: Receptacle

Mating Alignment: With

Mating Alignment Type: Polarization

Mating Retention: With

All Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100 (329)

### **Features**

#### Product Type 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
Sealable	No
Connector & Contact Terminates To	Wire & Cable
Configuration Features	
Number of Cavities	2

2

Number of Positions



Number of Rows Panel Gasket Without  Electrical Characteristics  Operating Voltage 250 VAC  Contact Features  Contact Transmits (Typical) Contact Transmits (Typical) Contact Type Female Wire Contact Termination Area Plating Material Tin Contact Underplating Material Tin Contact Mating Area Plating Material Tin Contact Retention Within Housing With Contact Current Rating (Max) Termination Features  Termination Features  Termination Method to Wire & Cable Mechanical Attachment  Panel Mount Contact Retention Type Within Housing Locking Lance Panel Mount Peature Multing Alignment Type Multing Alignment Type Polatization Multing Retention Type Connector Mounting Type Connect		
Electrical Characteristics  Operating Voltage 250 VAC  Contact Features  Contact Transmits (Typical) Signal  Contact Transmits (Typical) Female  Wire Contact Termination Area Plating Material Tin  Contact Underplating Material Nickel  Contact Mating Area Plating Material Tin  Contact Current Rating (Max) 5 A  Termination Features  Lemination Method to Wire & Cable Insulation Displacement (IDC)  Machanical Attachment  Panel Mount No  Contact Retention Type Within Housing Locking Lance  Panel Mount Feature Without  Mating Aignment Type Polarization  Mating Aignment Type Polarization  Mating Retention Type Cable Mount (Free-Hanging)  Housing Features  Housing Color Diue  Housing Material Nylon  Centerline (Pilot) 2,54 mml, 2 in    Dimensions  Width A99 mml, 275 in    Height 13,21 mml, 52 in    Length Source    Source    Source    Length Source    Locking Color    Length Source    Length Lengt	Number of Rows	1
Contact Features  Contact Transmits (Typical) Signal  Contact Transmits (Typical) Signal  Contact Transmits (Typical) 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  Lermination Method to Wire & Cable Insulation Displacement (IDC)  Mechanical Attachment  Panel Mount  Panel Mount Feature Without  Mating Alignment Within Housing Locking Lance  Panel Mount Feature Without  Mating Alignment Type  Mating Alignment Within Mating Retention Type Locking Ramp  Connector Mounting Type  Connector Mounting Type  Connector Mounting Type  Housing Features  Housing Color  Blue  Housing Material Nylon  Centerline (Pitch) 2.54 mm[1 in]  Dimensions  Width 6.99 mm[275 in]  Length 5.08 mm[2 in]	Panel Gasket	Without
Contact Features  Contact Transmits (Typical) Contact Transmits (Typical) Contact Transmits (Typical) Contact Type Wire Contact Termination Area Plating Material Wire Contact Underplating Material Contact Underplating Material 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 Contact Retention Type Within Housing I cocking Lance Panel Mount Teature Without Mating Alignment With Mating Alignment Type Polarization Mating Retention With Mating Retention Type Locking Ramp Connector Mounting Type Locking Ramp Connector Mounting Type Housing Features  Housing Color Blue Housing Material Nylon Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.2 in] Length 5.06 mm[.2 in]	Electrical Characteristics	
Contact Transmits (Typical) Contact Type Female Wire Contact Termination Area Plating Material Wire Contact Underplating Material Contact Underplating Material 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 Type Connector Mounting Type Connector Mounting Type Connector Mounting Type Blue Housing Features Housing Color Blue Housing Material Nylon Centerline (Pitch) Dimensions  Width 6.99 mm[275 in] Height 13.21 mm[.52 in] Length 5.08 mm[2 in]	Operating Voltage	250 VAC
Contact Type  Wire Contact Termination Area Plating Material  Contact Underplating Material  Contact Mating Area Plating Material  Contact Retention Within Housing  With  Contact Current Rating (Max)  Termination Features  Termination Method to Wire & Cable  Mechanical Attachment  Panel Mount  Contact Retention Type Within Housing  Locking Lance  Panel Mount Feature  Without  Mating Alignment  With  Mating Alignment Type  Mating Retention  Mating Retention Type  Connector Mounting Type  Connector Mounting Type  Connector Mounting Type  Housing Features  Housing Color  Housing Material  Nylon  Centerline (Pitch)  Dimensions  Width  6.99 mm[,275 in]  Height  Length  5.08 mm[,21 in]	Contact Features	
Wire Contact Termination Area Plating Material Contact Underplating Material Contact Mating Area Plating Material 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 Contact Retention Type Within Housing Locking Lance Panel Mount Feature Without Mating Alignment With Mating Alignment Type Polarization With Mating Retention With Mating Retention Type Locking Ramp Connector Mounting Type Cable Mount (Free Hanging)  Housing Features  Housing Color Housing Material Nylon Centerline (Pitch) Dimensions  Width 6.99 mm(1.25 in) Height Length 5.08 mm(2.1 in)	Contact Transmits (Typical)	Signal
Contact Underplating Material Tin 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 Type Connector Mounting Type Locking Rarrip Connector Mounting Type Connector Mounting Type Blue Housing Features  Housing Color Blue Housing Material Nylon Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in] Height 1.3.21 mm[.52 in] Length 5.08 mm[.25 in]	Contact Type	Female
Contact Mating Area Plating Material Contact Retention Within Housing With Contact Current Rating (Max) SA  Termination Features  Termination Method to Wire & Cable Insulation Displacement (IDC)  Mechanical Attachment  Panel Mount No Contact Retention Type Within Housing Panel Mount Feature Without Mating Alignment With Mating Alignment Type Polarization Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Connector Mounting Type  Housing Color Housing Color Housing Material Nylon Centerline (Pitch) Dimensions  Width 6.99 mm [275 in] Height Length 5 08 mm [2 in]	Wire Contact Termination Area Plating Material	Tin
Contact Retention Within Housing Contact Current Rating (Max)  Termination Features  Termination Method to Wire & Cable Mechanical Attachment  Panel Mount Contact Retention Type Within Housing Panel Mount Feature Without Mating Alignment Mating Alignment Type Mating Retention Type Connector Mounting Type Connector Mounting Type Housing Features  Housing Color Housing Material Centerline (Pitch)  Dimensions  With  6.99 mm[.275 in] Height Height Length Formination Minus Insulation Displacement (IDC)  Insulation Displacement (IDC)  Mating Nation Displacement (IDC)  No  One Contact Retention Type Within Housing Locking Lance Without With  Aliang Alignment Type Color Blue Nylon 2.54 mm[.1 in]  Dimensions	Contact Underplating Material	Nickel
Contact Current Rating (Max)  Termination Features  Termination Method to Wire & Cable  Mechanical Attachment  Panel Mount  Contact Retention Type Within Housing Panel Mount Feature  Without  Mating Alignment Mating Alignment Type Mating Retention Type  Connector Mounting Type  Connector Mounting Type  Housing Features  Housing Color Housing Material Centerline (Pitch)  Dimensions  Width  6.99 mm(.275 in] Height Length  5.08 mm(.2 in)	Contact Mating Area Plating Material	Tin
Termination Features  Termination Method to Wire & Cable  Mechanical Attachment  Panel Mount  Contact Retention Type Within Housing Panel Mount Feature  Mating Alignment  Mating Alignment Type Polarization  Mating Retention Type  Connector Mounting Type  Connector Mounting Type  Housing Features  Housing Color  Housing Material  Centerline (Pitch)  Dimensions  With  Insulation Displacement (IDC)  No  No  No  Locking Lance  Without  With  Alignment Type Polarization  With  Locking Ramp  Cable Mount (Free-Hanging)  Housing Features  Housing Features  Housing Material  Nylon  Centerline (Pitch)  Dimensions  Width  6.99 mm[.275 in]  Height  Length  5.08 mm[.2 in]	Contact Retention Within Housing	With
Termination Method to Wire & Cable  Mechanical Attachment  Panel Mount  Contact Retention Type Within Housing Panel Mount Feature  Mating Alignment Mating Alignment Type Mating Retention Mating Retention Mating Retention Type  Connector Mounting Type  Connector Mounting Type  Housing Features  Housing Material  Centerline (Pitch)  Dimensions  With  Insulation Displacement (IDC)  No  No  Locking Lance Without  With  Alignment With  Locking Ramp  Cable Mount (Free-Hanging)  Blue  Housing Features  Housing Material  Nylon  2.54 mm[.1 in]  Dimensions  Width  6.99 mm[.275 in]  Height  Length  5.08 mm[.2 in]	Contact Current Rating (Max)	5 A
Panel Mount Panel Mount Panel Mount Contact Retention Type Within Housing Panel Mount Feature Without Mating Alignment With Mating Alignment Type Polarization Wating Retention Wating Retention Type Locking Ramp Connector Mounting Type Connector Mounting Type Blue Housing Features Housing Material Nylon Centerline (Pitch)  Dimensions Width As 99 mm[.275 in] Height Length Solve Mount Solve	Termination Features	
Panel Mount Contact Retention Type Within Housing Locking Lance Panel Mount Feature Without Mating Alignment With Mating Alignment Type Polarization Mating Retention With Mating Retention Type Locking Ramp Connector Mounting Type Cable Mount (Free-Hanging) Housing Features Housing Color Housing Material Nylon Centerline (Pitch) Dimensions Width A.99 mm[.275 in] Height Length Solon Mount (Free-Hanging) Solon mm[.2 in]	Termination Method to Wire & Cable	Insulation Displacement (IDC)
Contact Retention Type Within Housing Panel Mount Feature Without Mating Alignment Mating Alignment Type Polarization Mating Retention Mating Retention Type Locking Ramp Connector Mounting Type Connector Mounting Type Blue Housing Features Housing Material Nylon Centerline (Pitch) Dimensions With 6.99 mm[.275 in] Height Length Sold marked 13.21 mm[.52 in]	Mechanical Attachment	
Panel Mount Feature Without  Mating Alignment Type Polarization  Mating Retention With  Mating Retention Type Locking Ramp  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Housing Color Blue Housing Material Nylon  Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in]  Height 13.21 mm[.52 in]  Length 5.08 mm[.2 in]	Panel Mount	No
Mating Alignment Type Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Housing Features Housing Color Housing Material Centerline (Pitch) Dimensions  With  With  Mating Retention Type Locking Ramp Cable Mount (Free-Hanging)  Blue Nylon 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in] Height 13.21 mm[.52 in] Length	Contact Retention Type Within Housing	Locking Lance
Mating Alignment Type Mating Retention Mating Retention Type Locking Ramp Connector Mounting Type Connector Mounting Type  Housing Features  Housing Color Housing Material Centerline (Pitch)  Dimensions  Width A 6.99 mm[.275 in] Height Length Solve mr[.2 in]	Panel Mount Feature	Without
Mating Retention With  Mating Retention Type Locking Ramp  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Housing Color Blue  Housing Material Nylon  Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in]  Height 13.21 mm[.52 in]  Length 5.08 mm[.2 in]	Mating Alignment	With
Mating Retention Type Connector Mounting Type Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Housing Color Blue Housing Material Nylon  Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in]  Height 13.21 mm[.52 in]  Length 5.08 mm[.2 in]	Mating Alignment Type	Polarization
Connector Mounting Type  Housing Features  Housing Color  Housing Material  Centerline (Pitch)  Dimensions  Width  6.99 mm[.275 in]  Height  Length  Cable Mount (Free-Hanging)  Cable Mount (Free-Hanging)  Blue  Nylon  2.54 mm[.1 in]  6.99 mm[.275 in]  13.21 mm[.52 in]	Mating Retention	With
Housing Features  Housing Color  Blue  Housing Material  Nylon  Centerline (Pitch)  2.54 mm[.1 in]  Dimensions  Width  6.99 mm[.275 in]  Height  13.21 mm[.52 in]  Length  5.08 mm[.2 in]	Mating Retention Type	Locking Ramp
Housing Color Housing Material Nylon Centerline (Pitch)  Dimensions  Width 6.99 mm[.275 in] Height 13.21 mm[.52 in] Length 5.08 mm[.2 in]	Connector Mounting Type	Cable Mount (Free-Hanging)
Housing Material Nylon  Centerline (Pitch) 2.54 mm[.1 in]  Dimensions  Width 6.99 mm[.275 in]  Height 13.21 mm[.52 in]  Length 5.08 mm[.2 in]	Housing Features	
Centerline (Pitch)       2.54 mm[.1 in]         Dimensions	Housing Color	Blue
Dimensions         Width       6.99 mm[.275 in]         Height       13.21 mm[.52 in]         Length       5.08 mm[.2 in]	Housing Material	Nylon
Width       6.99 mm[.275 in]         Height       13.21 mm[.52 in]         Length       5.08 mm[.2 in]	Centerline (Pitch)	2.54 mm[.1 in]
Height 13.21 mm[.52 in]  Length 5.08 mm[.2 in]	Dimensions	
Length 5.08 mm[.2 in]	Width	6.99 mm[.275 in]
	Height	13.21 mm[.52 in]
Wire Size .12 – .15 mm²	Length	5.08 mm[.2 in]
	Wire Size	$.1215 \text{ mm}^2$



### **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	LR7189
UL File Number	E28476
UL Flammability Rating	UL 94V-2
Packaging Features	
Packaging Quantity	500

Bag/Box

## **Product Compliance**

Packaging Method

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-PRUMH
PCB Header: Polyester, Right Angle,
2.54 mm



TE Part # CAT-104MTA-PVBRH
Polyester Vertical PCB Header: 2.54
mm, Breakaway, MTA 100



TE Part # CAT-104MTA-PVUNH
PCB Header: Polyester, Vertical,
Unshrouded, No Mating Alignment



TE Part # CAT-104MTA-PRSMH
PCB Header, Right Angle, Polyester,
2.54 mm



TE Part # 640454-2 02P MTA100 HDR ASSY SQ STR POL



TE Part # CAT-104MTA-PRUSH
PCB Header: Polyester, Right Angle,
Unshrouded



TE Part # 640550-2 02P MTA100 COVER



TE Part # CAT-104MTA-PVSHH
Polyester Vertical PCB Header: 2.54
mm, Shrouded, MTA 100



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



TE Part # CAT-104MTA-NVTHH

Nylong Vertical PCB Header: 2.54mm,
Through Hole, MTA 100



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



TE Part # 58579-1 MTA 100 MANUAL TOOL ASSEMBLY DISCRETE



TE Part # CAT-104MTA-NVSMH Nylon Vertical PCB Header: 2.54mm, Surface Mount, MTA 100



TE Part # 3-644694-2 02P MTA100 R/A HDR RETENTIVE



TE Part # 3-647051-2 02P MTA100 HRD ASSYF/L HT LF



TE Part # 58246-3
MTA 100 CRIMP HEAD PRODUCTION
RBBN CABLE







## Also in the Series | MTA 100







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** 

02P MTA100 CONN ASSY POL RIB

English

### **CAD Files**

**Customer View Model** 

ENG\_CVM\_CVM\_3-643815-2\_K.2d\_dxf.zip

English

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_3-643815-2\_K.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_3-643815-2\_K.3d\_stp.zip

English

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



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**

MD\_3-643815-2\_08022017047\_dmtec

English

MD\_3-643815-2\_08022017047\_dmtec

English

## Agency Approvals

**CSA Certificate** 

English