

350643-1 ✓ ACTIVE

MATE-N-LOK | Commercial MATE-N-LOK

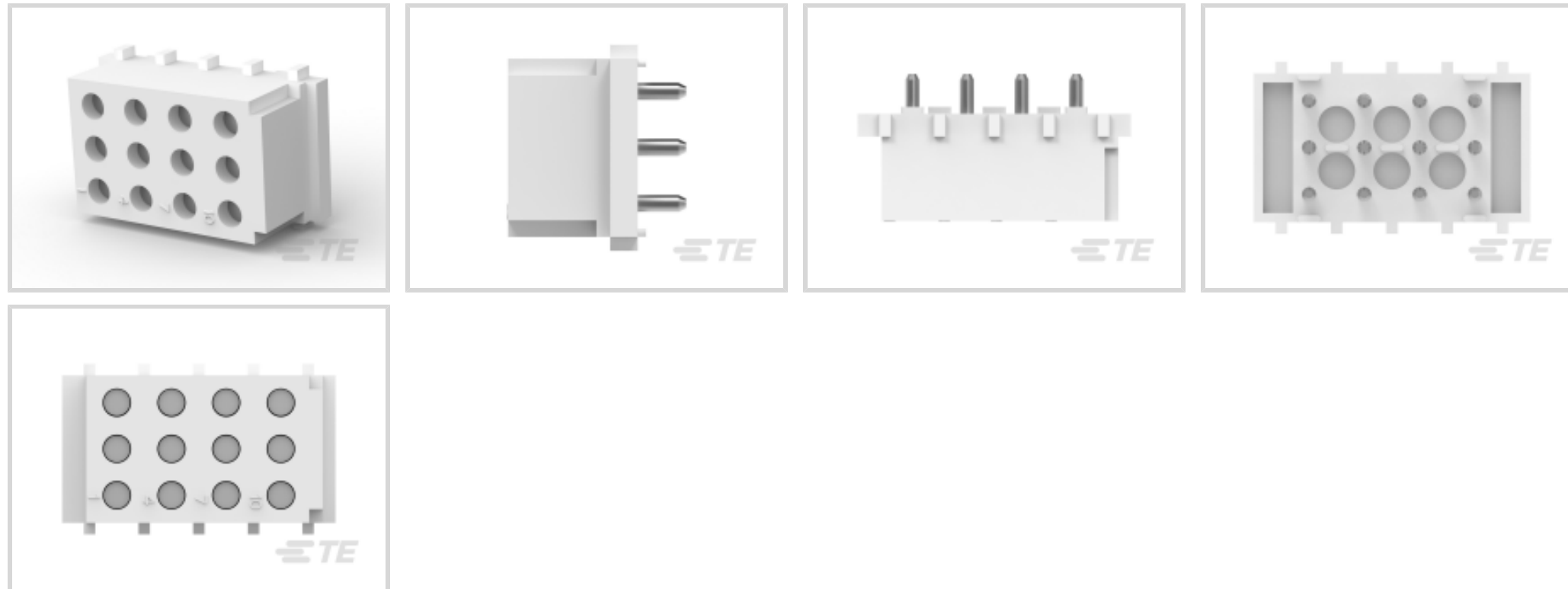
TE Internal #: 350643-1

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12  
Position, 5.1 mm [.202 in] Centerline, Printed Circuit Board,  
Commercial MATE-N-LOK

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **12**

Centerline (Pitch): **5.1 mm [.202 in]**

## Features

### Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Rows	4

### Electrical Characteristics

Operating Voltage	250 VAC
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### Contact Features

Contact Layout	Matrix
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Contact Current Rating (Max)	12 A
Contact Retention Within Housing	Without
Contact Type	Socket
PCB Contact Termination Area Plating Material	Pre-Tin
Contact Mating Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]
Underplate Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Termination Area Plating Thickness	2.54 $\mu\text{m}$ [100 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	3.05 mm[.12 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Mating Alignment Type	Polarization
Mating Alignment	With
Connector Mounting Type	Board Mount
Mating Retention	Without

### Housing Features

Centerline (Pitch)	5.1 mm[.202 in]
Housing Color	Natural
Housing Material	Nylon

### Dimensions

Row-to-Row Spacing	6.1 mm[.24 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

### Usage Conditions

Operating Temperature Range	-55 – 105 $^{\circ}\text{C}$ [-67 – 221 $^{\circ}\text{F}$ ]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire
Agency/Standard Number	E28476
Agency/Standard	CSA, UL



UL Rating	Certified, Recognized
CSA File Number	LR16455
VDE Tested	No

### Packaging Features

Packaging Method	Bag
Packaging Quantity	100

### Other

For Use With	Pin (Cap) Housing
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## 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	Wave solder capable to 265°C

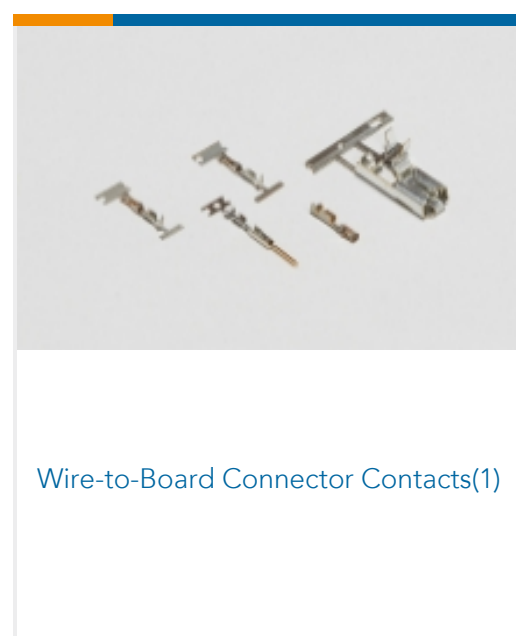
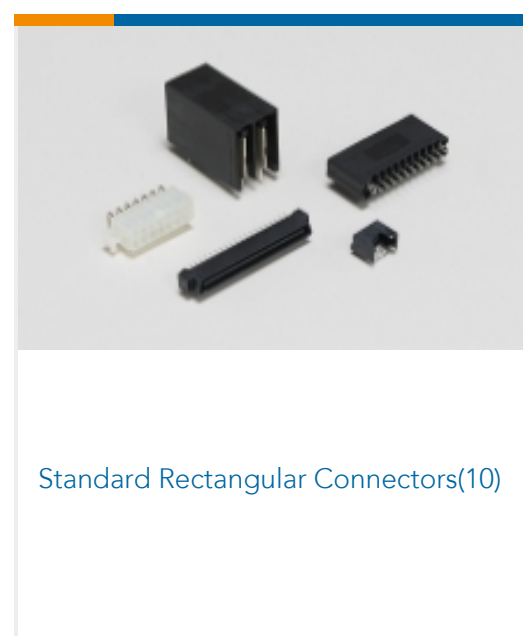
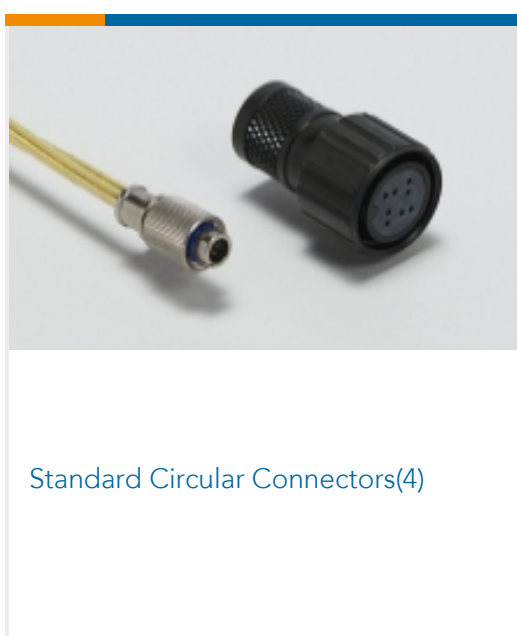
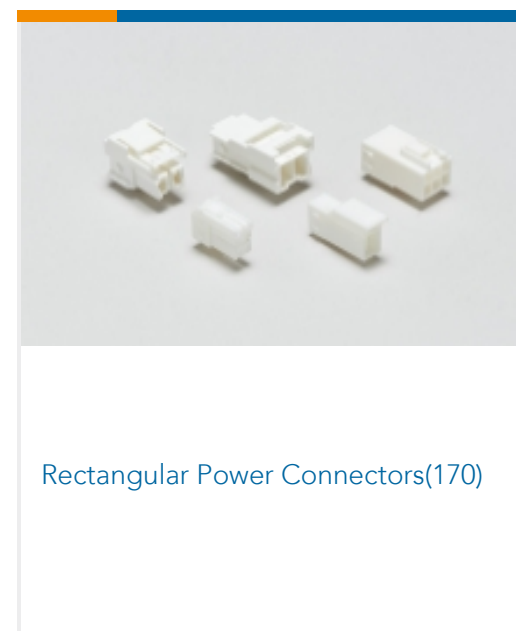
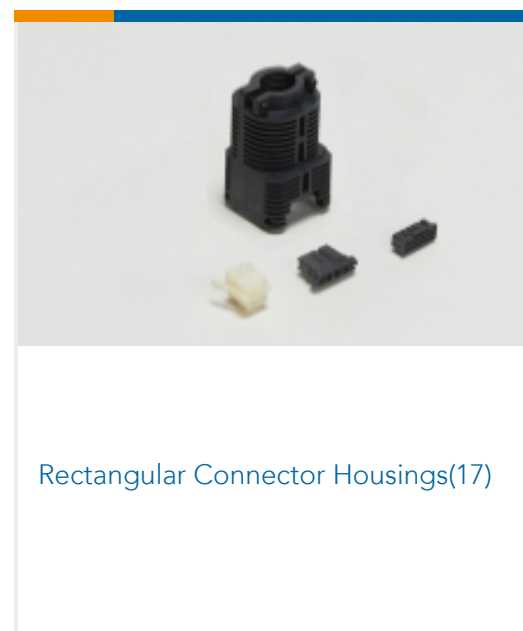
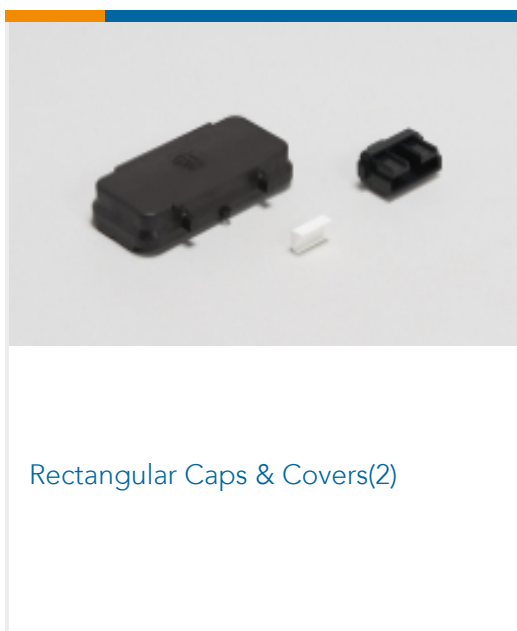
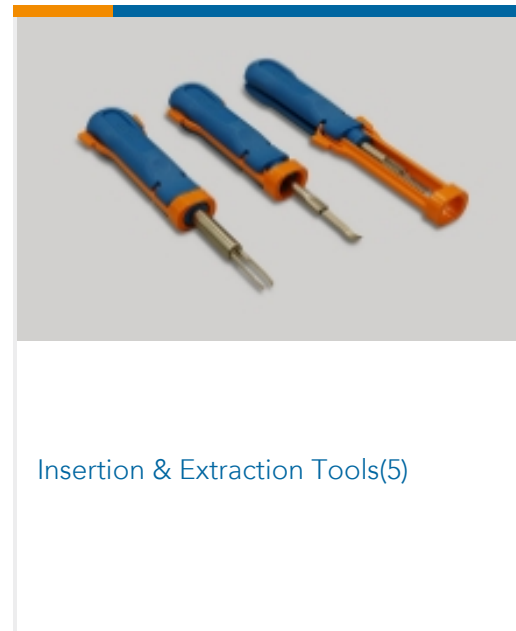
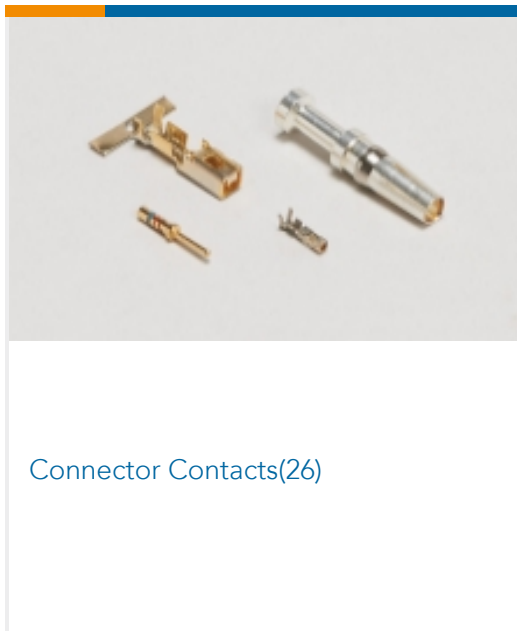
#### Product Compliance Disclaimer

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



## Also in the Series | Commercial MATE-N-LOK



## Documents

### Product Drawings

12P CMNL HDR ASSY NATL

English

### CAD Files

Customer View Model

ENG\_CVM\_350643-1\_G.3d\_igs.zip

English



**Customer View Model**

[ENG\\_CVM\\_350643-1\\_G.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_350643-1\\_G.2d\\_dxf.zip](#)

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English

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3D

**Customer View Model**

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English

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**Customer View Model**

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English

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**Datasheets & Catalog Pages**

[SOFT\\_SHELL\\_PIN\\_SOCKET\\_CONNECTORS\\_STANDARD\\_DENSITY](#)

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**Product Specifications**

[Application Specification](#)

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**Agency Approvals**

[CSA Certificate](#)

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