

350539-1 ✓ ACTIVE

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

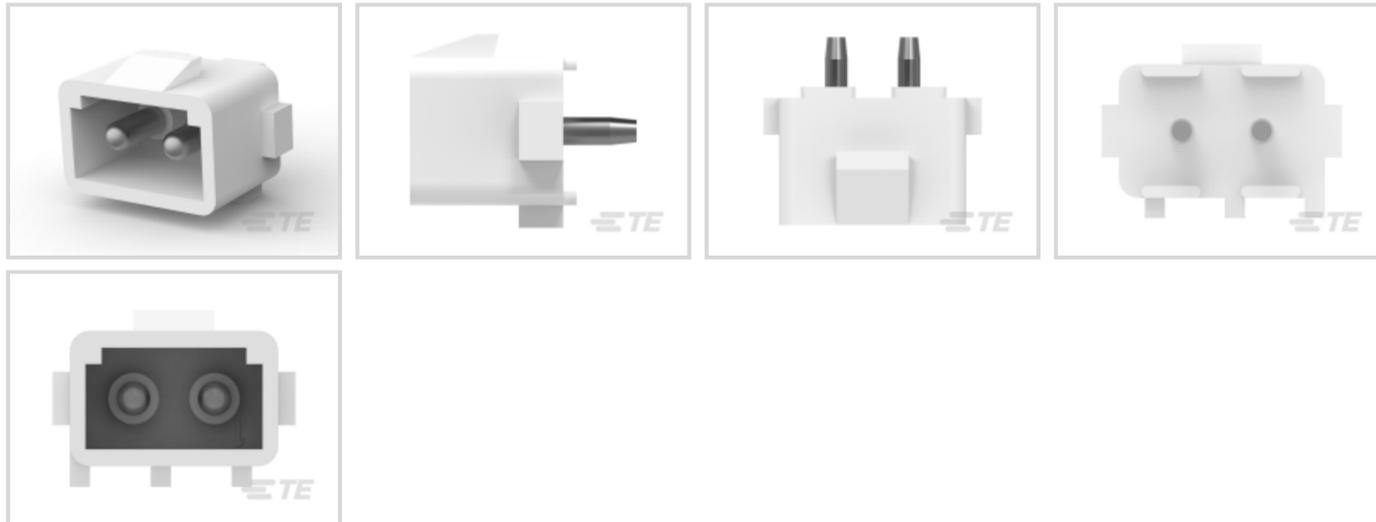
TE Internal #: 350539-1

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 2 Position, 5.08 mm [.2 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: **Receptacle**

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

Number of Positions: **2**

Centerline (Pitch): **5.08 mm [.2 in]**

## Features

### Product Type Features

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

### Configuration Features

Number of Positions	2
PCB Mount Orientation	Vertical
Number of Power Positions	2
Number of Signal Positions	0
Number of Rows	1

### Electrical Characteristics

Operating Voltage	250 VAC
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### Contact Features

Contact Layout	Inline
Contact Current Rating (Max)	10 A, 12 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 – .91 $\mu\text{m}$ [30 – 36 $\mu\text{in}$ ]
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	With
Mating Retention Type	Positive Lock

### Housing Features

Centerline (Pitch)	5.08 mm[.2 in]
Housing Color	Natural
Housing Material	Nylon

### Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
Width	9.53 mm[.375 in]
Height	8.38 mm[.33 in]
Length	13.08 mm[.515 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-0
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	Yes

### Packaging Features

Packaging Method	Bag
Packaging Quantity	100

### Other

For Use With	Socket (Plug) 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



TE Part # 1-480720-0  
02P CMNL PLUG HSG W/LOK NATL



TE Part # 1-480724-0  
02P CMNL CAP HSG F/H D/L NATL



TE Part # 1586512-3  
02P CMNL HDR ASSY PC NATL V0



TE Part # 350209-3  
02P CMNL HDR ASSY PC NATL V0

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



Connector Contacts(26)



Crimp Wire Pins, Tabs & Ferrules(3)



Insertion & Extraction Tools(5)



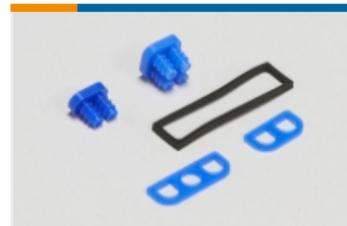
Power Contacts(129)



Rectangular Caps & Covers(2)



Rectangular Connector Housings(17)



Rectangular Connector Seals(1)



Rectangular Power Connectors(170)



Standard Circular Connectors(4)



Standard Rectangular Connectors(10)



Wire-to-Board Connector Contacts(1)

## Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)



**Customer View Model**

[ENG\\_CVM\\_CVM\\_350539-1\\_Z.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_350539-1\\_Z.3d\\_igs.zip](#)

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**Customer View Model**

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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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**Product Environmental Compliance**

[MD\\_350539-1\\_03092018143\\_dmtec](#)

English

[MD\\_350539-1\\_03092018143\\_dmtec](#)

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**Agency Approvals**

[Agency Approval Document](#)

English