

2-350539-1 ✓ ACTIVE

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

TE Internal #: 2-350539-1

Commercial MATE-N-LOK, Rectangular Power Connectors,  
Header, Receptacle, Wire-to-Board, 2 Position, 5.08mm [.2in]  
Centerline, Printed Circuit Board

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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

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)	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	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]

#### Termination Features

Termination Post & Tail Length	1.53 mm[.06 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	Red
Housing Material	Nylon

#### Dimensions

Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
	.03 – .09 in
Width	8.38 mm[.33 in]
Height	9.53 mm[.375 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	500

### 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: JAN 2021 (211) Candidate List Declared Against: JAN 2018 (181) SVHC > Threshold: Not Yet Reviewed
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 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 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 # 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)



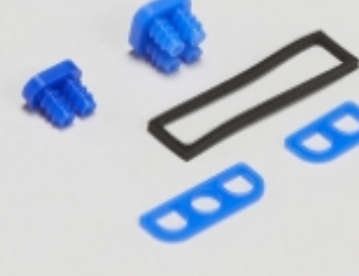
Power Contacts(129)




Rectangular Caps & Covers(2)




Rectangular Connector Housings(17)




Rectangular Connector Seals(1)




Rectangular Power Connectors(171)



Standard Circular Connectors(4)



Standard Rectangular Connectors(10)



Wire-to-Board Connector Contacts(1)

## Customers Also Bought



TE Part #2204422-3  
MULTI-BEAM HD VER.REC.  
15S+6P+2LP+15S



TE Part #2204452-1  
MULTI-BEAM HD R/A PLUG  
15S+6P+2LP+15S



TE Part #4-1393250-8  
W28-XQ1B-8=W28



TE Part #1742089-2  
187 FASTON, FLAG, REC., 18-  
14OR2X18AWG, TPBR



TE Part #5-146133-1  
03 MODII HDR SR SFMNT B/A .100



TE Part #2199119-9  
M.2 CONNECTORS



TE Part #5-641126-4  
Polyester Vertical PCB Header: 2.54  
mm, Unshrouded, No Mating  
Alignment



TE Part #YDTS20W17-26JNC001  
D38999: Square Flange, 17-26 insert



TE Part #293491-2  
AMP MONO-SHAPE TAB CONN assy  
2



TE Part #435470-7  
DIP SW ASSY-BLK MPMT-2POS

## Documents

### Product Drawings

[02P CMNL HDR ASSY SHORT RED](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-350539-1\\_Z.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-350539-1\\_Z.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-350539-1\\_Z.3d\\_stp.zip](#)

English

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



**Datasheets & Catalog Pages**

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

English

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**Product Specifications**

[Application Specification](#)

English

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**Agency Approvals**

[CSA Certificate](#)

English