

643228-1 ✓ ACTIVE

MATE-N-LOK | Universal MATE-N-LOK

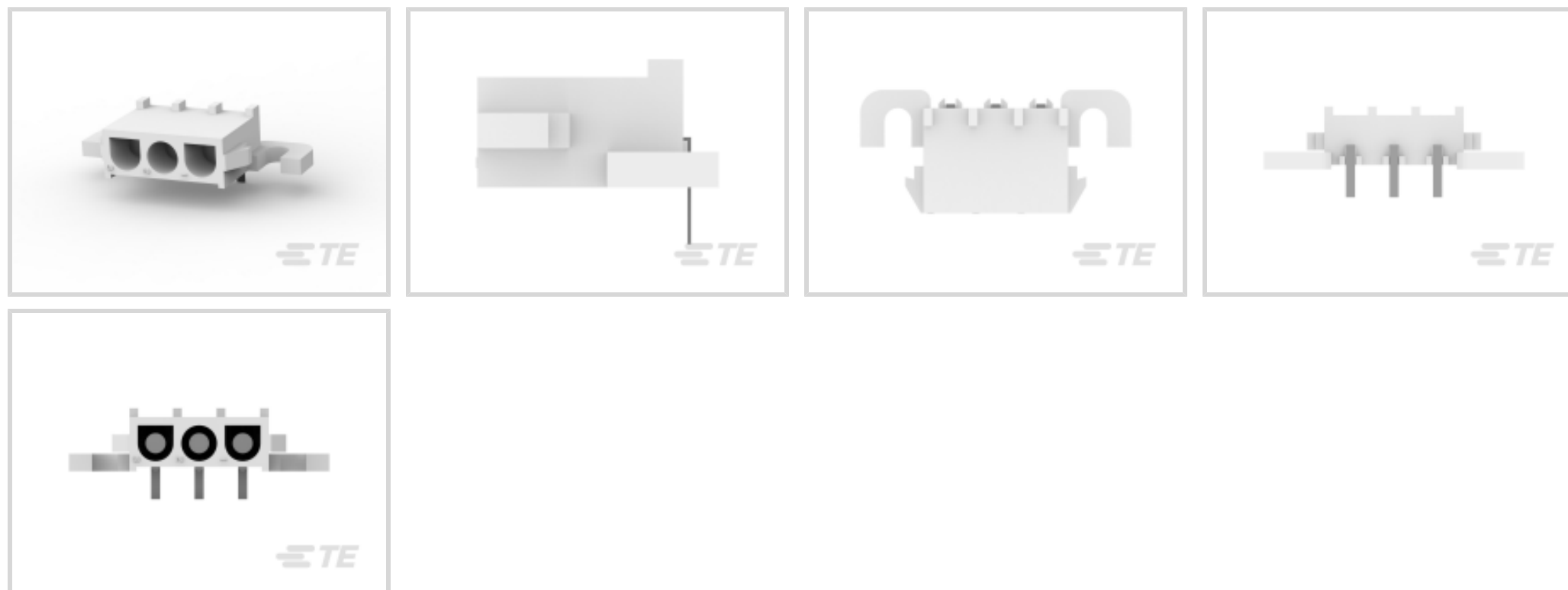
TE Internal #: 643228-1

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 3 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal 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: **3**

Centerline (Pitch): **6.35 mm [.25 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	3
PCB Mount Orientation	Right Angle
Number of Power Positions	3
Number of Rows	1

### Electrical Characteristics

Operating Voltage	600 VAC
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### Contact Features

Multiple Contact Types	Without
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Contact Layout	Inline
Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	12 A
Contact Retention Within Housing	Without
Contact Type	Socket
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	3.7 mm[.146 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Polarization
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Mating Retention Type	Positive Lock
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	6.35 mm[.25 in]
Housing Color	Natural
Housing Material	Nylon

### Dimensions

PCB Thickness (Recommended)	3.18 mm[.125 in]
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### Usage Conditions

Operating Temperature Range	-40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$ ]
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### Operation/Application

Circuit Application	Power
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### Industry Standards



CSA Rating	Certified, LR 7189
UL Rating	Recognized
Agency/Standard	CSA, UL, VDE
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

### Packaging Features

Packaging Quantity	280
Packaging Method	Box

### Product Compliance

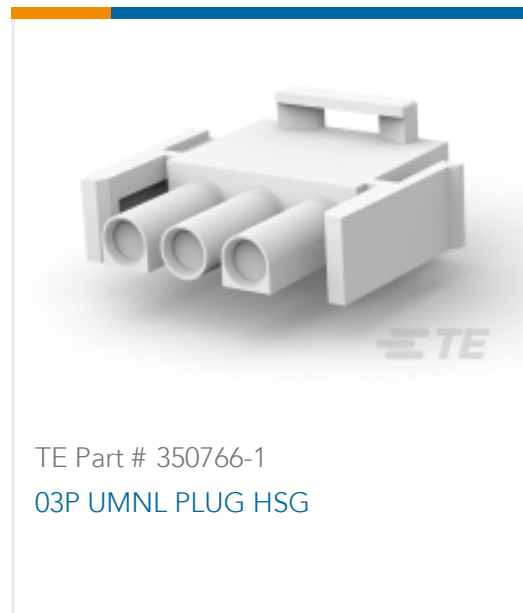
[For compliance documentation, visit the product page on TE.com>](#)

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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



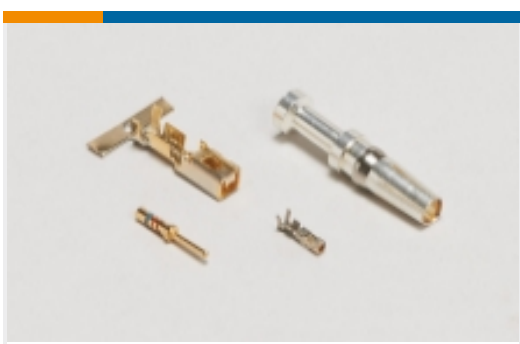
Also in the Series | **Universal MATE-N-LOK**



Circular Power Connectors(2)



Connector Caps & Covers(34)



Connector Contacts(209)



Connector Hardware(12)



Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



Insertion & Extraction Tools(4)

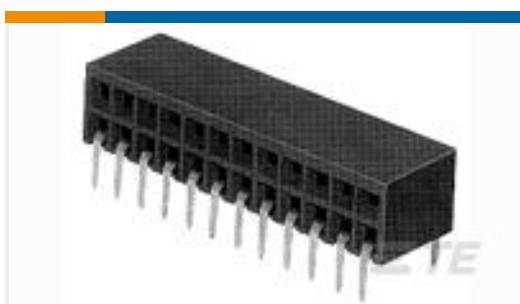


Rectangular Connector Housings(1)



Rectangular Power Connectors(672)

### Customers Also Bought



TE Part #216604-8  
2X 8P HV190FEDERLEI



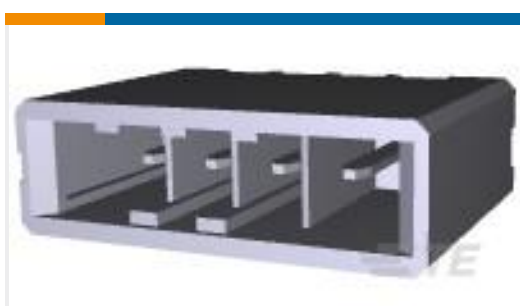
TE Part #42743-1  
250 FASTON REC 22-18 AWG BR



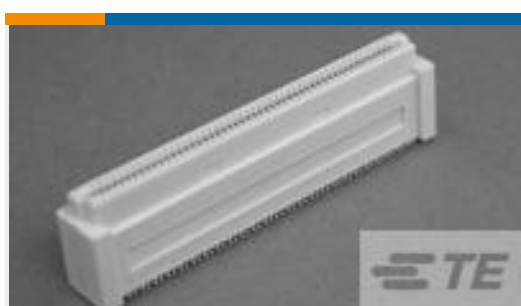
TE Part #5227699-2  
BNC PCB VERTICAL



TE Part #1-917659-8  
DYNAMIC 3200 REC HSG 20P



TE Part #1-917338-2  
DYNAMIC 3200 VERTI. HDR ASY 4P



TE Part #5084616-8  
0.8FH,R13H.5,160,08/Sn,TR,SC



TE Part #350714-1  
15P UMNL PIN HDR ASSY 94VO



TE Part #640388-8  
08P MTA156 HDR ASSY RN STR F/L



## Documents

### Product Drawings

[03P UMNL HDR ASSY R/A 94VO](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_643228-1\\_H.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_643228-1\\_H.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_643228-1\\_H.3d\\_stp.zip](#)

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Customer View Model

[ENG\\_CVM\\_643228-1\\_D.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_643228-1\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_643228-1\\_D.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

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

English

### Product Specifications

[Application Specification](#)

English



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**Product Environmental Compliance**

[MD\\_643228-1\\_09252018645\\_dmtec](#)

English

[MD\\_643228-1\\_09252018645\\_dmtec](#)

English

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**Instruction Sheets**

[Instruction Sheet \(U.S.\)](#)

English