



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

TE Internal #: 641831-1
Header, Plug, Wire-to-Board, 6 Position, 6.35 mm [.25 in]
Centerline, Printed Circuit Board, Universal MATE-N-LOK,
Rectangular Power Connectors

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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: **6**
Centerline (Pitch): **6.35 mm [.25 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	6
PCB Mount Orientation	Vertical
Number of Power Positions	6
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, 19 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Pre-Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]

Termination Features

Termination Post & Tail Length	3.69 mm[.145 in]
Termination Method to PCB	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	Without
Mating Retention Type	Positive Lock
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

PCB Thickness (Recommended)	2.36 mm[.093 in]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Operation/Application

Circuit Application	Power
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Industry Standards

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

Packaging Features

Packaging Quantity	100
Packaging Method	Bag & 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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

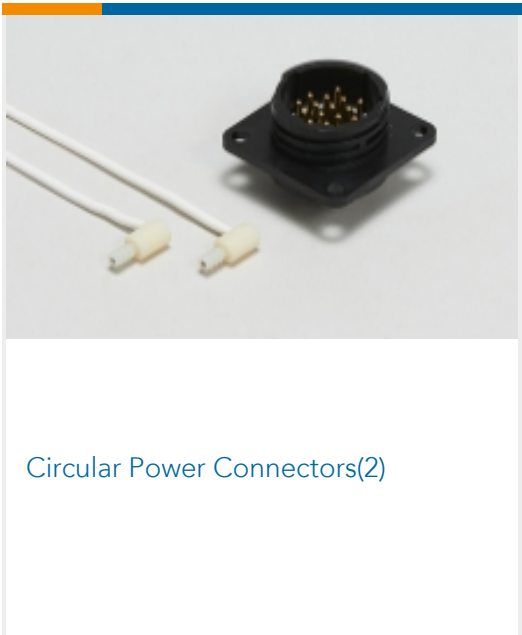
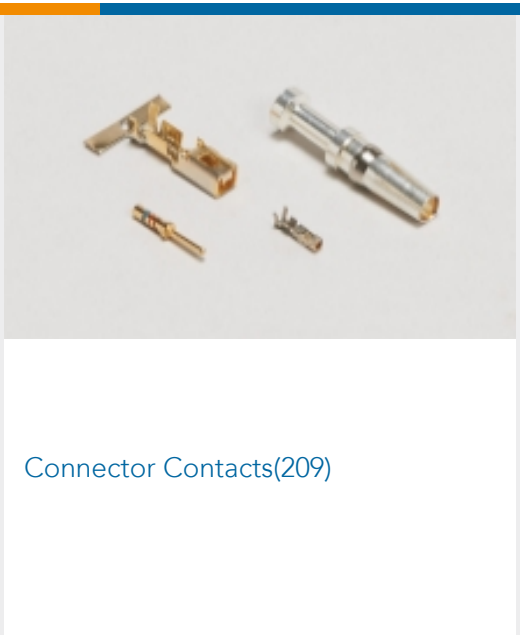
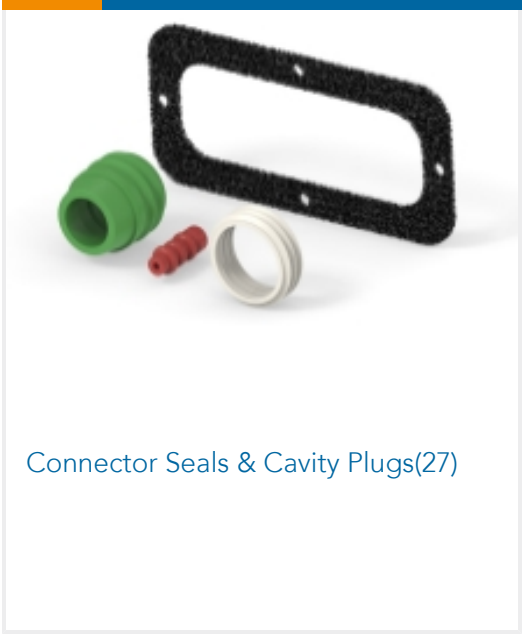
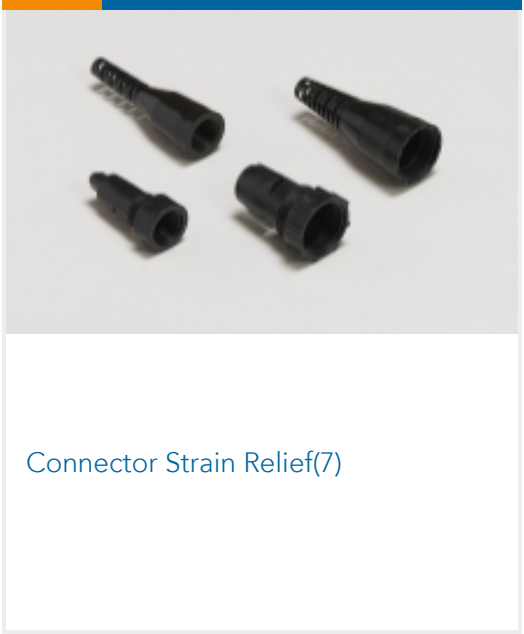
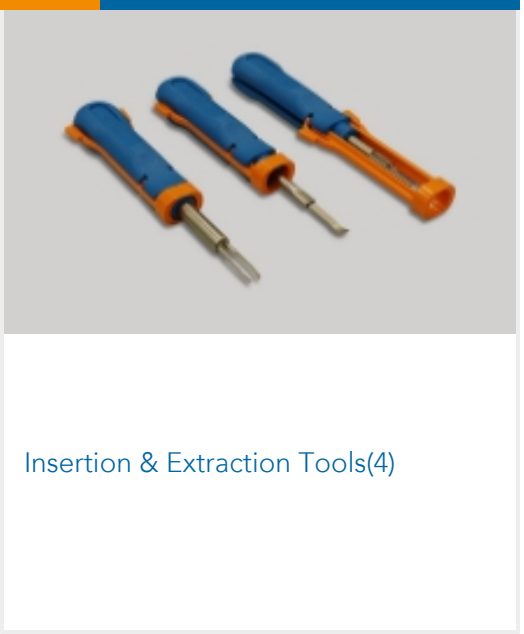
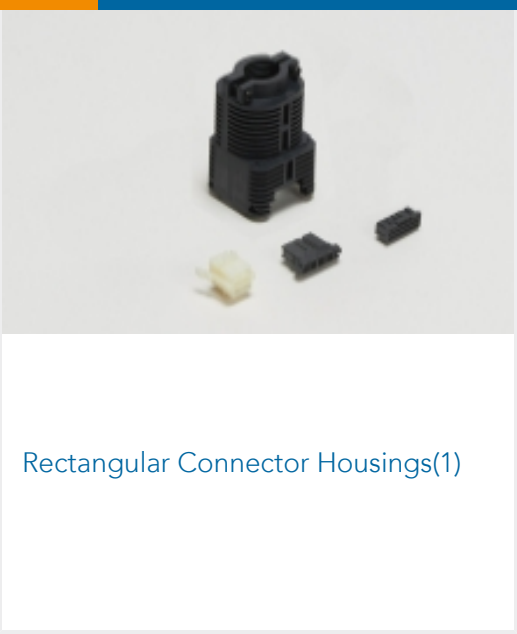
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 643585-2 06P UMNL STR/REL NATL	 TE Part # 1-350589-0 STR/REL CLAMP NATL	 TE Part # 350811-1 STR/REL CLAMP	 TE Part # 640581-1 06P UMNL PLUG HSG
 TE Part # 794275-1 06P UMNL INTERFACE SEAL	 TE Part # 794276-1 06P UMNL WIRE SEAL	 TE Part # 794993-1 06P UMNL BLACK INTERFACE SEAL	 TE Part # 1863025-1 UNIVERSAL MNL 6-WAY CAP
 TE Part # 643313-1 06P UMNL STR/REL	 TE Part # 643313-2 06P UMNL STR/REL	 TE Part # 194234-1 HDR ASSY,MNL,4 POS,LUBRICATED	 TE Part # 643253-1 06P UMNL ASSY MOD HSG VO

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(670)



Standard Circular Connectors(1)

Customers Also Bought



TE Part #5-2176070-1
3521 1K2 1% 2W



TE Part #5413515-2
JACK,DECOUPLER,RTANG,BNC PCB



TE Part #350713-1
12P UMNL PIN HDR ASSY 94VO



TE Part #1624094-9
3613C 220UH 10%



TE Part #6-2176388-1
RQ 1206 42R2 0.1% 10PPM 5K RL



TE Part #9-1415899-1
RZ03-1A4-D024-R



TE Part #643749-1
06P UMNL HDR ASSY W/O DRNS



TE Part #AS216-35PN-CLNUT
RECEPT.BOX MNTS.TYPE 2



TE Part #YAS216-35PA-CLNUT0
CONNECTOR BOX MTG
RECEPTACLE CLINCH NUTS



TE Part #YAS216-26PN-CLNUT0
CONNECTOR BOX MTG
RECEPTACLE CLINCH NUTS

Documents

Product Drawings

06P UMNL PIN HDR ASSY 94VO

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_641831-1_N.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_641831-1_N.3d_igs.zip](#)

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Customer View Model

[ENG_CVM_CVM_641831-1_N.3d_stp.zip](#)

English

3D PDF

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[ENG_CVM_641831-1_M1.2d_dxf.zip](#)

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Customer View Model

[ENG_CVM_641831-1_M1.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY](#)

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

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

English

Agency Approvals

[UL](#)

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