

641825-1 ✓ ACTIVE

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

TE Internal #: 641825-1

Universal MATE-N-LOK, Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 8 Position, 6.35mm [.25in] 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: **8**

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	8
PCB Mount Orientation	Vertical
Number of Power Positions	8
Number of Rows	1

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Inline
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Multiple Contact Types	Without
Contact Current Rating (Max)	12 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Pre-Tin
Contact Mating 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 Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

PCB Thickness (Recommended)	2.36 mm[.093 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

Assembly Integration Feature	Without
Circuit Application	Power

Industry Standards



CSA Rating	Certified
UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire
Agency/Standard Number	E28476
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	LR7189
VDE Tested	Yes

Packaging Features

Packaging Method	Bag
Packaging Quantity	100

Other

For Use With	Mates with Plug Housing (Using Socket Contacts)
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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 2020 (205) Candidate List Declared Against: JAN 2020 (205) Does not contain REACH SVHC
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JAN 2020 (205)
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

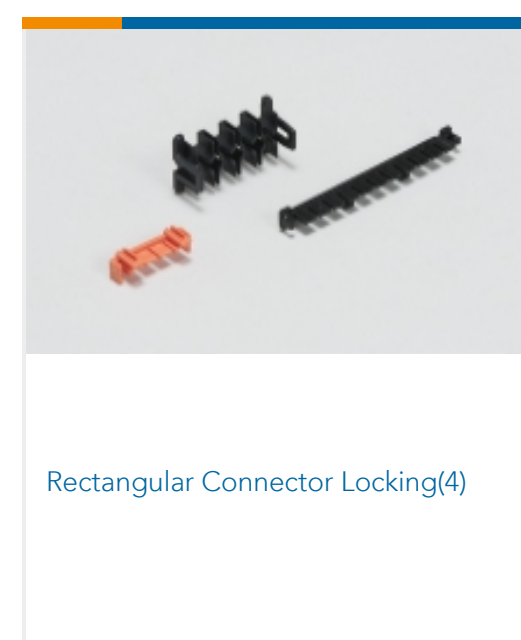
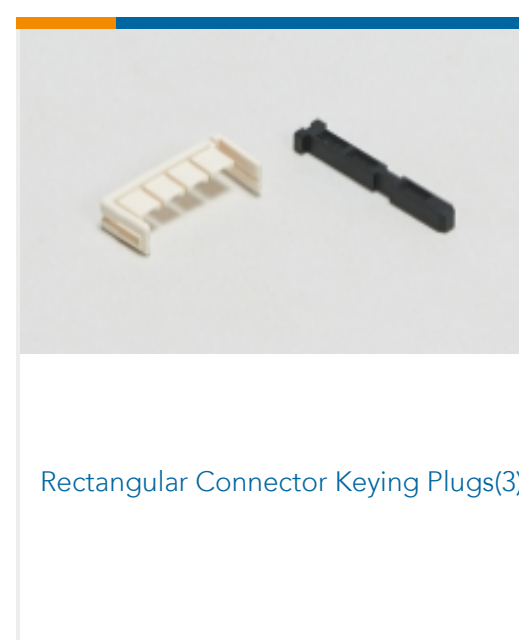
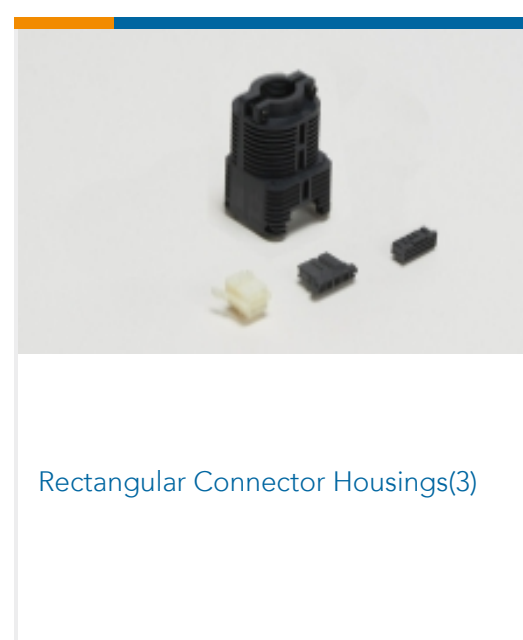
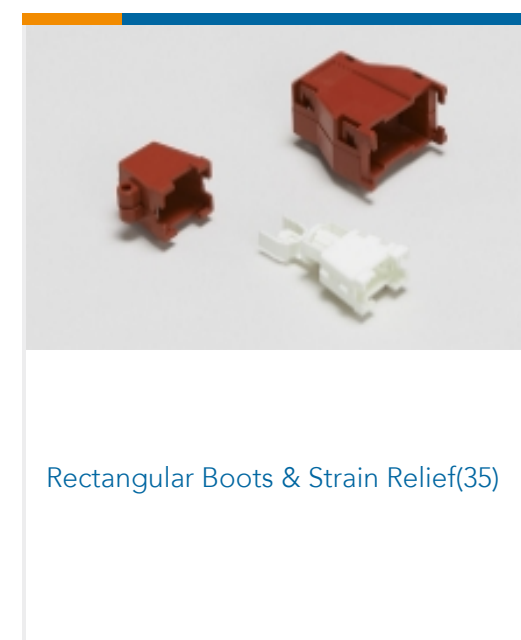
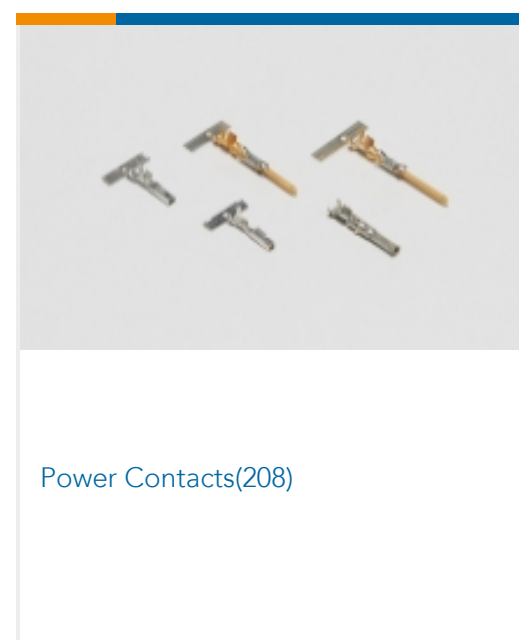
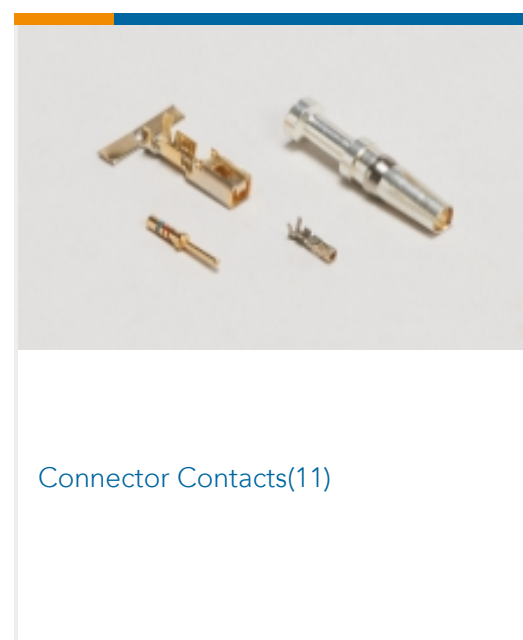
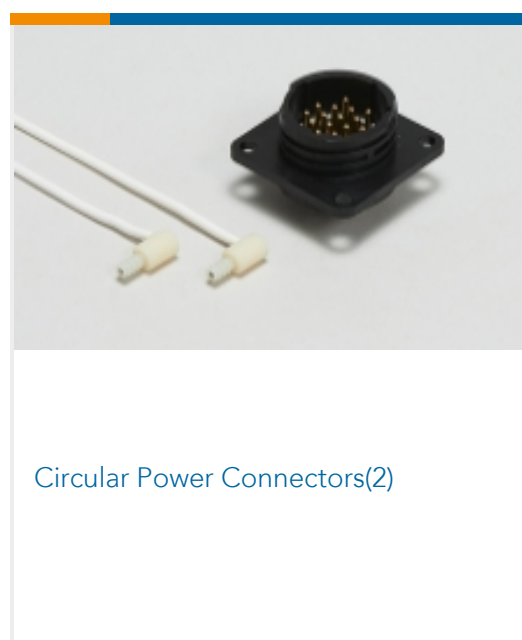
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent

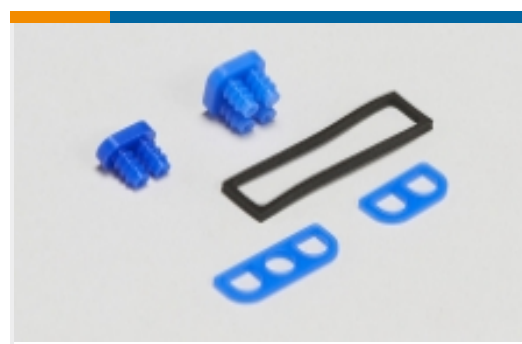
chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may 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



Also in the Series | Universal MATE-N-LOK

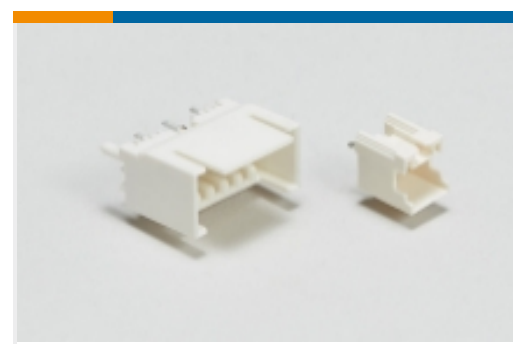




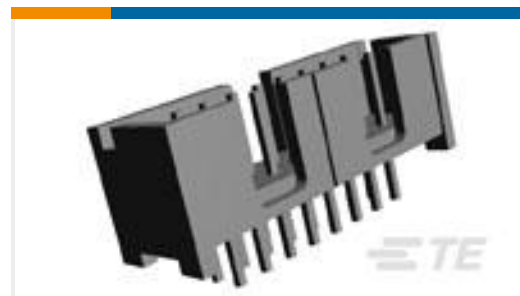
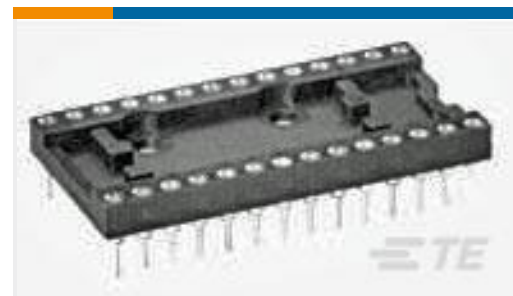
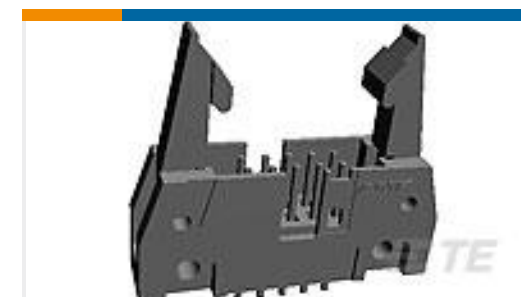
Rectangular Connector Seals(26)



Rectangular Power Connectors(716)

Wire-to-Board Headers & Receptacles
(3)

Customers Also Bought

TE Model / Part #641215-6
06P MTA100 HDR ASSY FL/ST 30AUTE Model / Part #103308-2
014 LOPRO HDR SP 15DPTE Model / Part #6-1437536-4
532-AG11D-ES=SOCKET ASSEMBLYTE Model / Part #641832-1
06P UMNL PIN HDR ASSY V2 NATLTE Model / Part #640586-1
08P UMNL PLUG HSG V2 NATLTE Model / Part #640455-9
09P MTA100 HDR ASSY SQ R/A POLTE Model / Part #640466-1
05P UMNL PIN HDR ASSY V2 NATLTE Model / Part #499910-4
020 UNIV HDR SP 4S 15DP STD L2TE Model / Part #5-103908-2
03 MTE HDR SRST LATCH W/HLDWNTE Model / Part #103328-8
16 MODII HDR DRST B/A .100CL

Documents

Product Drawings

[08P UMNL PIN HDR ASSY V2 NATL](#)

English

CAD Files

[Customer View Model](#)

[ENG_CVM_641825-1_J.3d_igs.zip](#)

English

[Customer View Model](#)



[ENG_CVM_641825-1_J.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_641825-1_J.2d_dxf.zip](#)

English

3D PDF

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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](#)

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Product Specifications

[Application Specification](#)

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[TE Material Declaration](#)

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

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Agency Approvals

[UL Report](#)

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