643426-1 ✓ ACTIVE

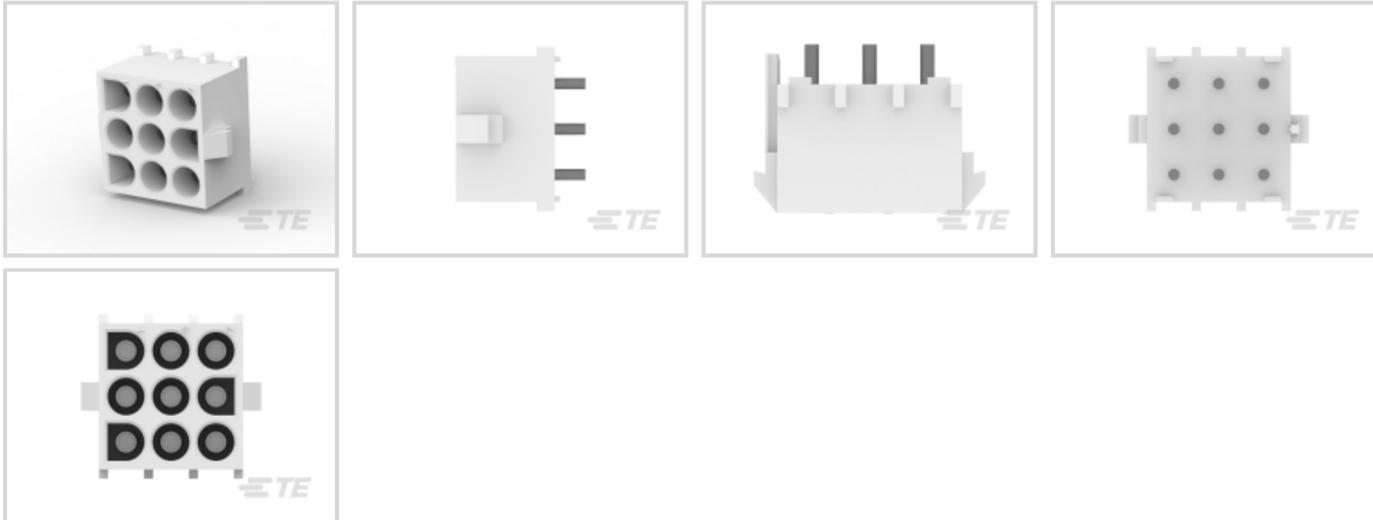## MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 643426-1

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 9 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

View on TE.com >

Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **9**

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	9
PCB Mount Orientation	Vertical
Number of Power Positions	9
Number of Rows	3

Electrical Characteristics

Operating Voltage	600 VAC

Contact Features

Contact Layout	Matrix

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Multiple Contact Types	Without
Contact Current Rating (Max)	12 A
Contact Retention Within Housing	Without
Contact Type	Socket
PCB Contact Termination Area Plating Material	Pre-Tin
Contact Mating Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]

Termination Features

Termination Post & Tail Length	3.81 mm[.149 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Standard Polarized Tail
Strain Relief	Without
Mating Alignment Type	Polarization
Mating Alignment	With
PCB Mount Alignment	With
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	Black
Housing Material	Nylon

Dimensions

Row-to-Row Spacing	6.35 mm[.25 in]
Width	20.32 mm
PCB Thickness (Recommended)	3.18 mm[.125 in]
Height	13.97 mm
Length	20.32 mm

Usage Conditions

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Rectangular Power Connectors, Header, Plug, Wire-to-Board, 9 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

Operating Temperature Range	-67 – 221 °C, -40 – 105 °C[-40 – 221 °F]

Operation/Application

Assembly Integration Feature	Without
Circuit Application	Power

Industry Standards

CSA Rating	Certified
UL Flammability Rating	UL 94V-0
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 & Box
Packaging Quantity	100

Other

| For Use With	Mates with Plug Housing (Using Pin Contacts)

Product Compliance

For compliance documentation, visit the product page on TE.com>

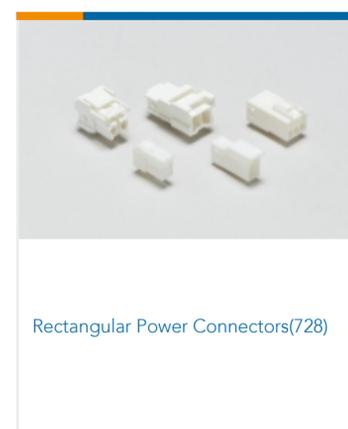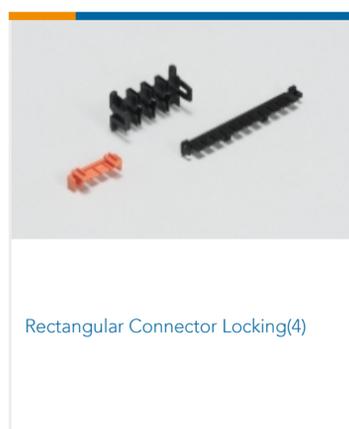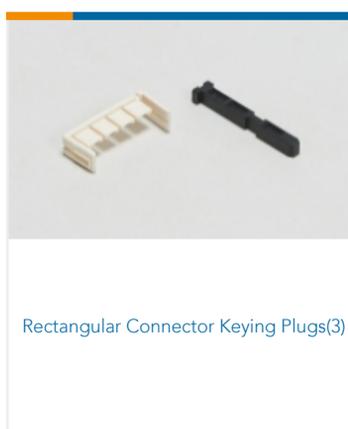| EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does 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

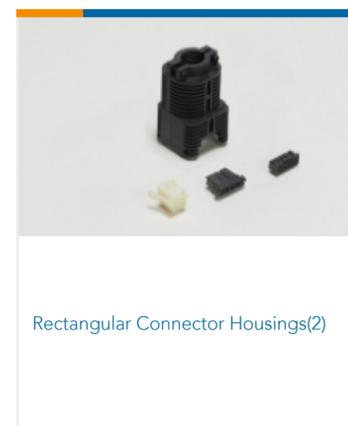Rectangular Power Connectors, Header, Plug, Wire-to-Board, 9 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

Product Compliance Disclaimer

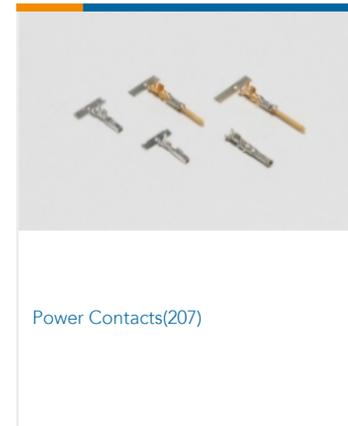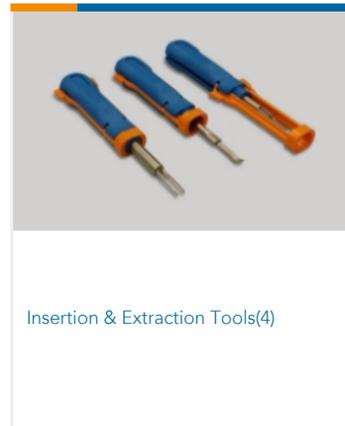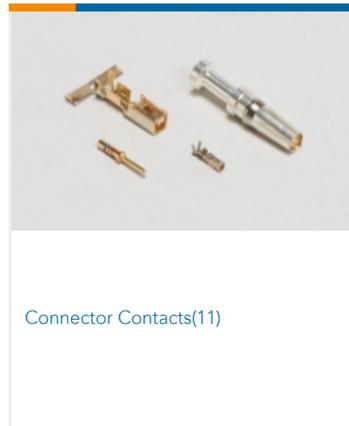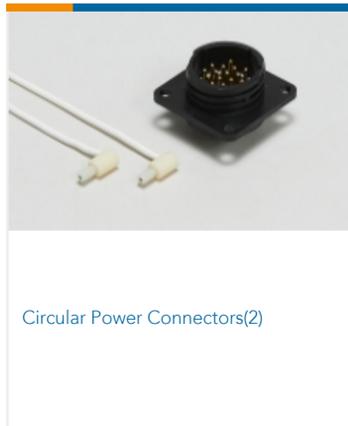This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 350720-1
09P UMNL PLUG HSG

TE Part # 770021-1
09P UMNLII IN-LNE PLUG HSG KIT

TE Part # 927231-3
HONHUS UMNL V0 9-P

TE Part # 927231-5
UNML CAP HSG 9WAY

TE Part # 1969818-1
09P UMNL PIN HDR ASSY NATL, PIN V0 GW

TE Part # 350812-1
STR/REL CLAMP UMNL
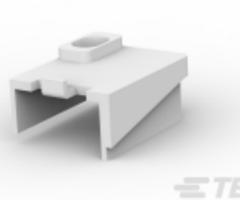
TE Part # 1-640722-0
09P UMNL STR/REL & INSRT NATL

TE Part # 794277-1
09P UMNL INTERFACE SEAL

TE Part # 640716-1
09P UMNL STR/REL & INSRT

TE Part # 1-350590-0
STR/REL CLAMP NATL

TE Part # 794994-1
09P UMNL BLACK INTERFACE SEAL

TE Part # 794278-1
09P UMNL WIRE SEAL

TE Part # 794584-1
05P UMNL SOC HDR ASSY POL SN

TE Part # 1586853-1
09P UMNL CAP HSG, GW

TE Part # 643254-1
09P UMNL ASSY MOD HSG VO

TE Part # 794538-1
09P UMNL CAP HSG 150C BLK

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TE Part # 1969882-1
09P UMNL CAP HSG, P/M, GW V0

TE Part # 2029299-1
9 POS UMNL CAP W/LARGE FLANGE-V0

TE Part # 2029315-1
09P UMNL CAP HSG 150C-RED

TE Part # 2029368-1
09P UMNL-II TW-N-LK-CAP FRONT

Also in the Series | Universal MATE-N-LOK

Circular Power Connectors(2)

Connector Contacts(11)

Insertion & Extraction Tools(4)

Power Contacts(207)

Rectangular Boots & Strain Relief(35)

Rectangular Connector Adapters(7)

Rectangular Connector Hardware(1)

Rectangular Connector Housings(2)

Rectangular Connector Keying Plugs(3)

Rectangular Connector Locking(4)

Rectangular Connector Seals(26)

Rectangular Power Connectors(728)

Documents

CAD Files
Customer View Model
ENG_CVM_643426-1_L.3d_igs.zip

English
Customer View Model
ENG_CVM_643426-1_L.3d_stp.zip

English

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Customer View Model

ENG_CVM_643426-1_L.2d_dxf.zip

English

3D PDF

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

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_643426-1_09252018645_dmtec

English

MD_643426-1_09252018645_dmtec

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

CSA Certificate

English