1586681-2 ✓ ACTIVE

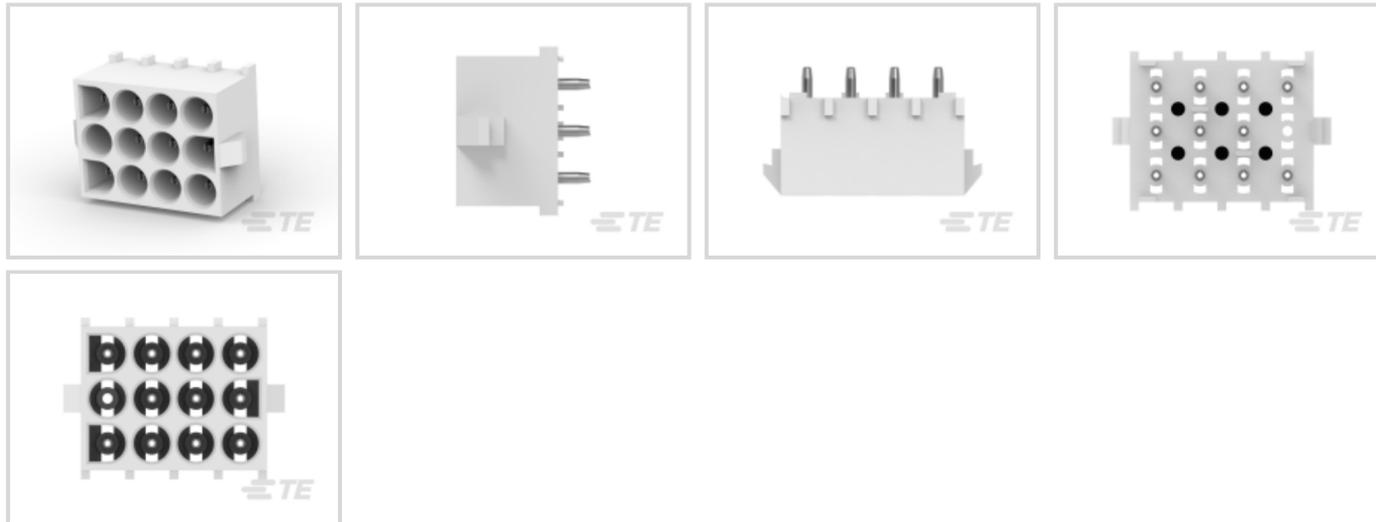## MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 1586681-2

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 12 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

View on TE.com >

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: **12**

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 Columns	4
Number of Loaded Positions	11
Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	11
Number of Rows	3

Electrical Characteristics

Operating Voltage	600 VAC

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Contact Features

Contact Layout	Matrix
Contact Base Material	Phosphor Bronze
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	Tin

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarization
Mating Alignment	With
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Row-to-Row Spacing	6.35 mm[.25 in]
Height	14.73 mm[.58 in]
PCB Thickness (Recommended)	1.57 mm[.06 in]
Length	26.67 mm[1.05 in]
Width	20.32 mm[.8 in]

Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
Shielded	No

Operation/Application

Circuit Application	Power

Industry Standards

UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

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UL Rating	Recognized
Agency/Standard	UL

Packaging Features

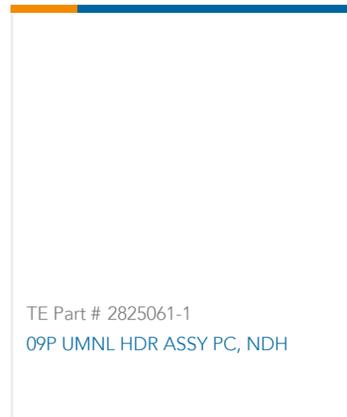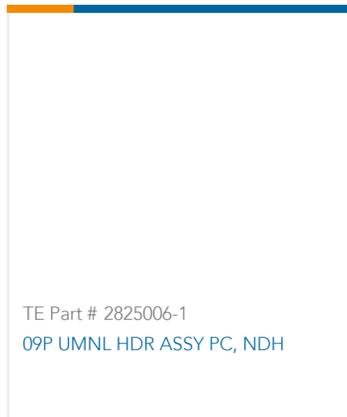| Packaging Method	Bag
Packaging Quantity	75

Product Compliance

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

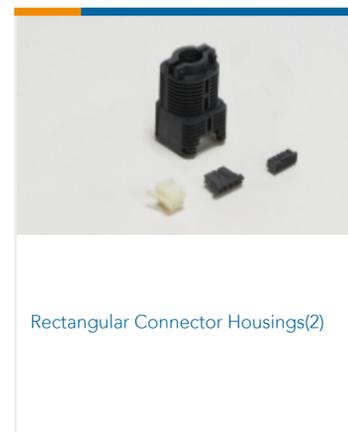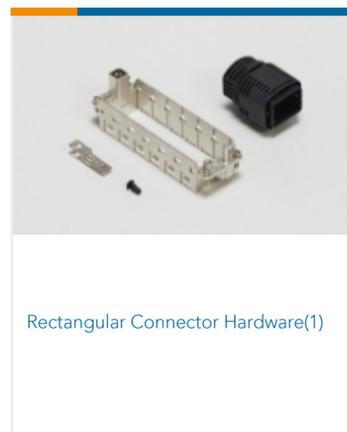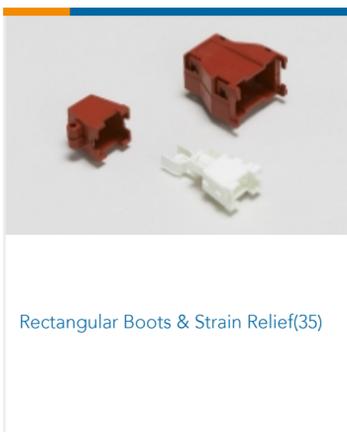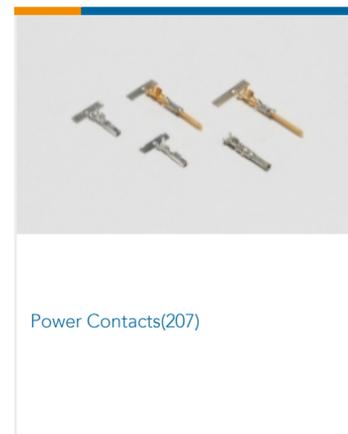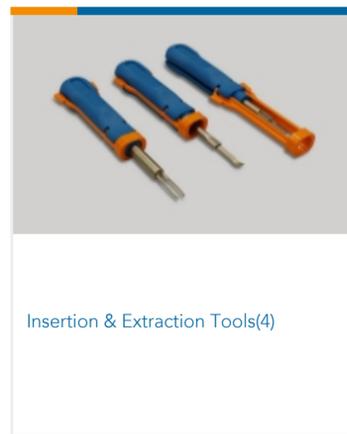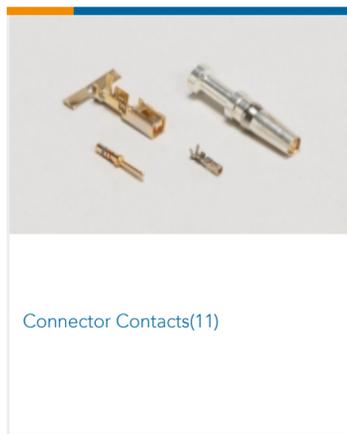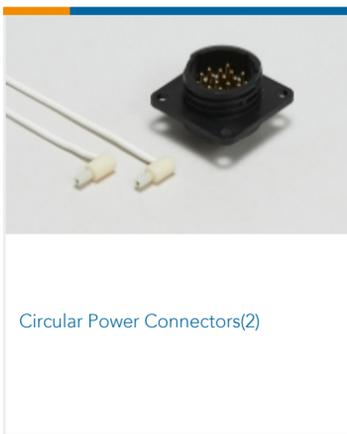| EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does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

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

1586681-2

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 12 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

TE Part # 1586174-1
06P UMNL PIN HDR 94VO NDH

TE Part # 2029002-1
09P UMNL HDR ASSY PC, NDH

TE Part # 1586681-8
12P UMNL PIN HDR ASSY 94VO SL

TE Part # 1586682-3
09P UMNL HDR ASSY PC 94VO SL

TE Part # 2029397-1
03P UMNL PIN HDR ASY 94VO NODH

TE Part # 1-350786-6
02P UMNL HDR ASSY VO, BLUE

TE Part # 1586176-1
12P UMNL PIN HDR 94VO NDH

TE Part # 2029451-1
06P UMNL SOK HDR ASSY W/O DRNS

TE Part # 6-641968-1
4P UMNL PIN HDR ASS POL VO BLU

TE Part # 2825006-1
09P UMNL HDR ASSY PC, NDH

TE Part # 2825061-1
09P UMNL HDR ASSY PC, NDH

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)

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Rectangular Connector Keying Plugs(3)

Rectangular Connector Locking(4)

Rectangular Connector Seals(26)

Rectangular Power Connectors(728)

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1586681-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1586681-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1586681-2_A.3d_stp.zip

English

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