

WIN*SOURCE*
ELECTRONICS

THE DATASHEET OF
350431-4



350431-4 ✓ ACTIVE

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

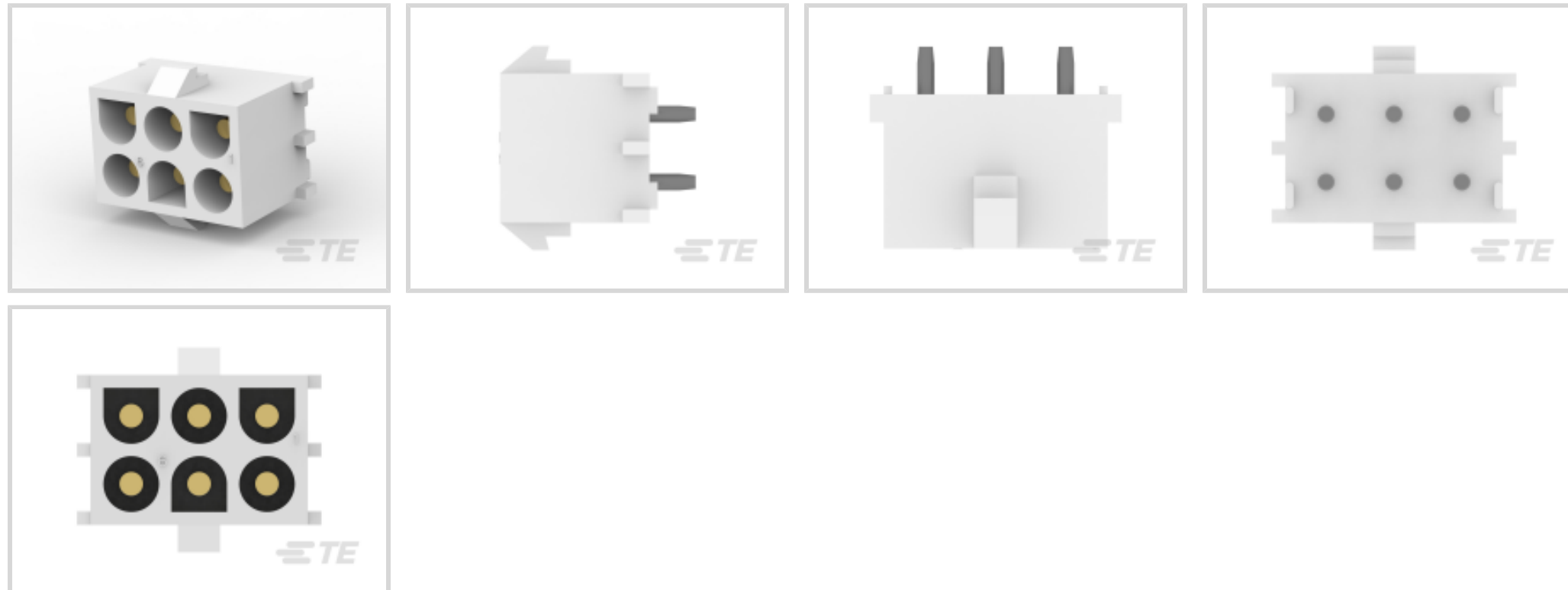
TE Internal #: 350431-4

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Universal MATE-N-LOK

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

Number of Rows: **2**

Features

Electrical Characteristics

Operating Voltage	600 VAC
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Dimensions

Row-to-Row Spacing	6.35 mm[.25 in]
Connector Width	13.97 mm[.55 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Connector Height	13.97 mm[.55 in]
Connector Length	20.32 mm[.8 in]
Profile Height from PCB	14.73 mm[.58 in]

Packaging Features

Packaging Quantity	100
Packaging Method	Bag

Industry Standards

Compatible With Agency/Standards Products	UL, VDE, CSA
UL Rating	Recognized



Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-2

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Tab
Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Termination Post & Tail Diameter	1.57 mm[.062 in]
Termination Post & Tail Length	3.56 mm[.14 in]
Termination Method to PCB	Through Hole - Solder

Contact Features

Contact Underplating Material	Nickel
Mating Pin Diameter	2.2 mm[.087 in]
Contact Underplating Material Thickness	1.27 – 1.79 µm[50 – 70 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Size	2.2mm
Contact Mating Area Plating Material Thickness	.76 – .91 µm[30 – 36 µin]
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Shape & Form	Round
Contact Layout	Matrix
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold



Contact Type	Pin
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Contact Current Rating (Max)	12 A
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Housing Features

Mating Entry Location	Top
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Housing Material	Nylon
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Centerline (Pitch)	6.35 mm [.25 in]
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Configuration Features

Number of Columns	3
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Number of Loaded Positions	6
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Number of Power Positions	6
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Connector Contact Load Condition	Fully Loaded
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PCB Mount Orientation	Vertical
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Number of Positions	6
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Number of Rows	2
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Product Type Features

Mixed & Hybrid Header	No
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Connector Shape	Rectangular
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PCB Connector Assembly Type	PCB Mount Header
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Connector System	Wire-to-Board
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Header Type	Fully Shrouded
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Sealable	No
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Connector & Contact Terminates To	Printed Circuit Board
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Body Features

Primary Product Color	Natural
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Operation/Application

Circuit Application	Power
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Other

EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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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: 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 # 3-480704-0
06P UMNL PLUG HSG NATL



TE Part # 794536-1
06P UMNL CAP HSG 150C BLK



TE Part # 640715-1
06P UMNL STR/REL



TE Part # 350812-1
STR/REL CLAMP UMNL



TE Part # 794714-3
06P UMNL CAP HSG RED,PAN MNT



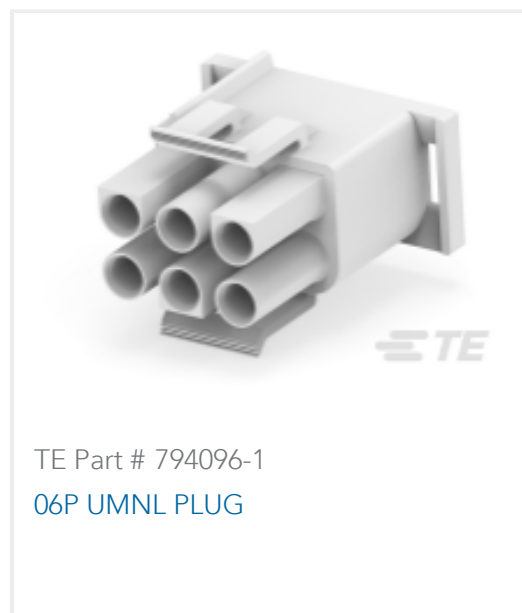
TE Part # 1586887-1
06P UMNL CAP HSG, P/M, GW



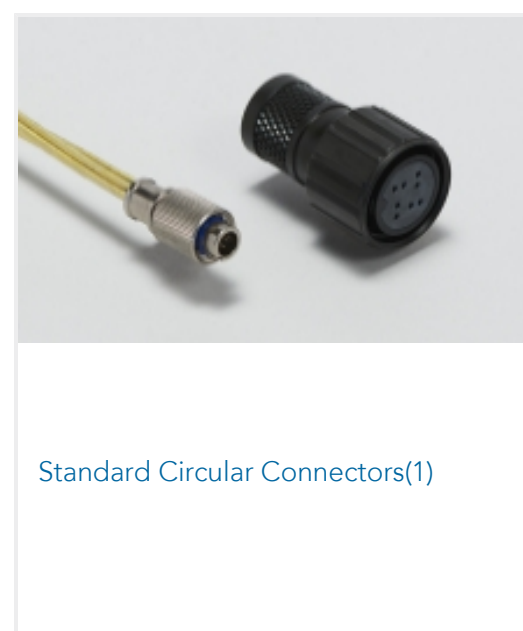
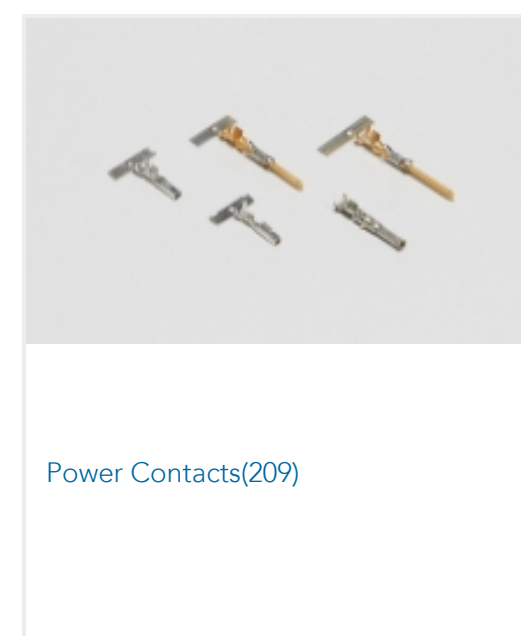
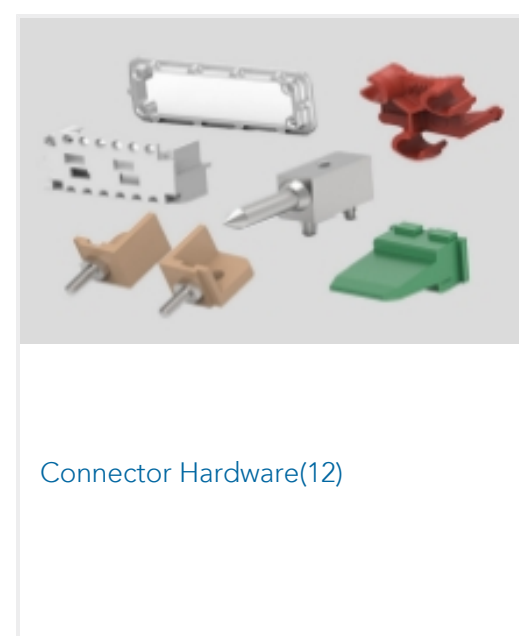
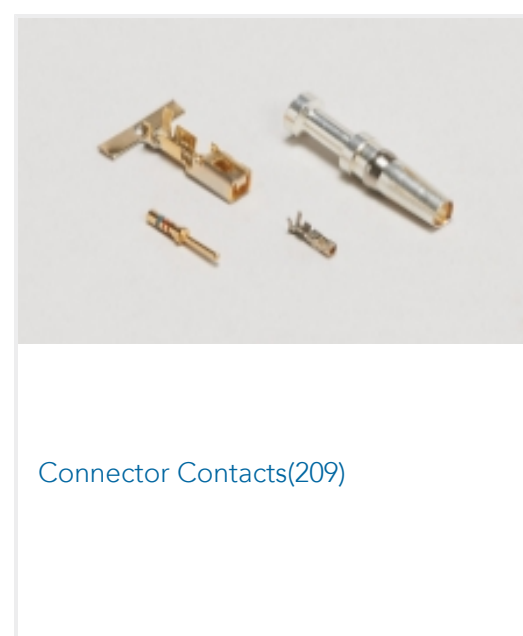
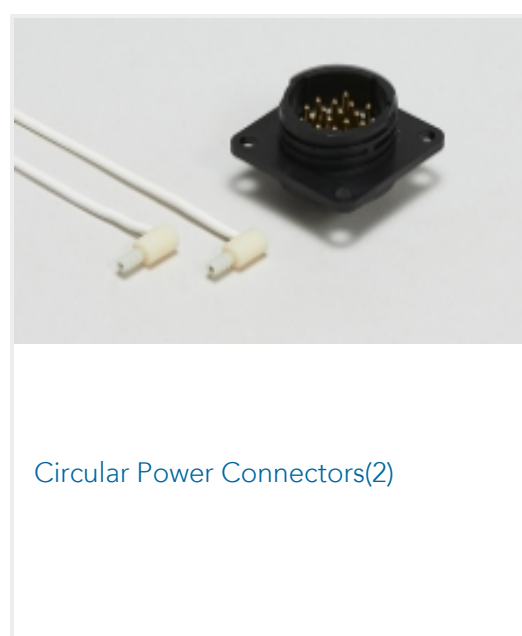
TE Part # 1-640721-0
06P UMNL STR/REL & INSRT NATL



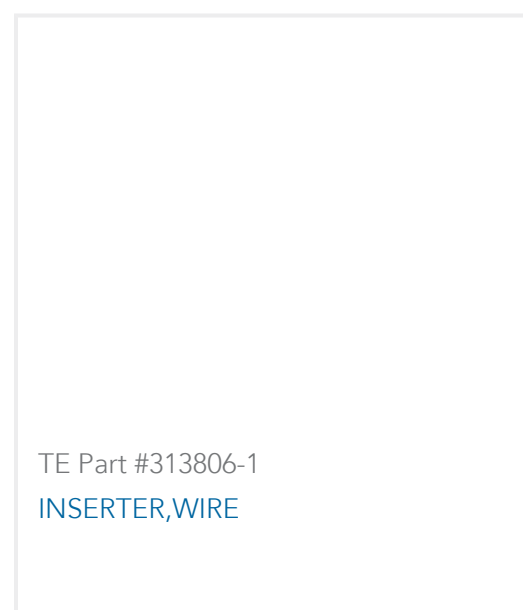
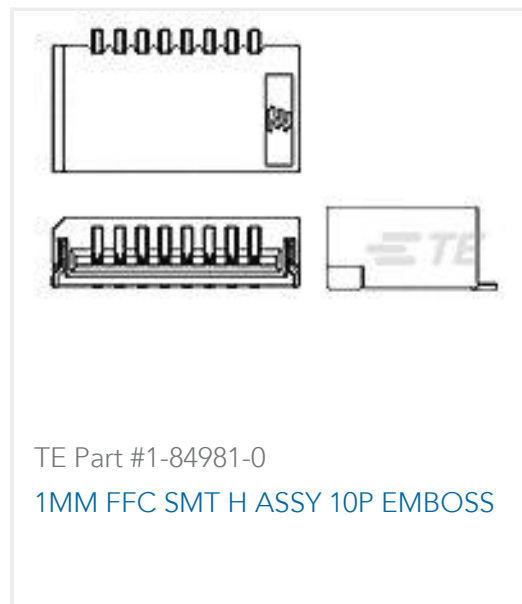
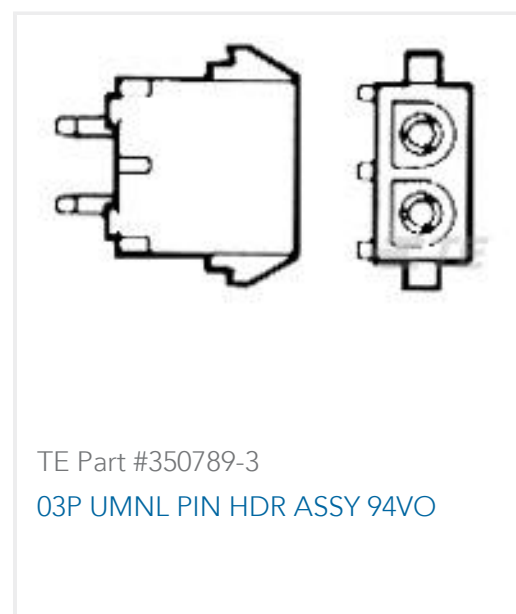
TE Part # 926682-3
06P UNIV.M-N-L.HSG.



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



Customers Also Bought



Documents

Product Drawings

[06P UMNL PINHDR ASSY V2 NAT LF](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_350431-4_Y.2d_dxf.zip](#)

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Customer View Model

[ENG_CVM_350431-4_Y.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_350431-4_Y.3d_stp.zip](#)

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[3D PDF](#)

3D



Customer View Model

[ENG_CVM_CVM_350431-4_AE.2d_dxf.zip](#)

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Customer View Model

[ENG_CVM_CVM_350431-4_AE.3d_igs.zip](#)

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Customer View Model

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY](#)

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Product Specifications

[Application Specification](#)

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Agency Approvals

[UL](#)

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- ✓ Alternative Solution
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