

770012-6 ✓ ACTIVE

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

TE Internal #: 770012-6

Universal MATE-N-LOK, Power Contacts, Contact, Operating Voltage 600 VAC, Gold, 30 – 26AWG Wire Size, .05 – .13mm² Wire Size, Wire-to-Wire

[View on TE.com >](#)



Connectors > Power Connectors > Power Contacts



Power Contact Type: **Contact**

Operating Voltage: **600 VAC**

Contact Mating Area Plating Material: **Gold**

Wire Size: **.05 – .13 mm²**

Features

Product Type Features

Power Contact Type	Contact
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	7 A
Contact Type	Socket
Contact Retention Within Housing	Without
Mating Pin Diameter	2.2 mm[.086 in]
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Wire Contact Termination Area Plating Material Thickness	.76 µm[30 µin]
Wire Contact Termination Area Plating Material	Gold



Wire Contact Termination Area Plating Material Finish	Bright
Contact Orientation	Straight
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]

Termination Features

Termination Method to Wire & Cable	Crimp
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Dimensions

Wire Size	.05 – .13 mm ²
Accepts Wire Insulation Diameter Range	.81 – 1.45 mm[.032 – .057 in]

Usage Conditions

Operating Temperature Range	-55 – 120 °C[-67 – 248 °F]
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Operation/Application

Circuit Application	Power
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Industry Standards

CSA Rating	Certified
Glow Wire Rating	Standard Part - Not Glow Wire
VDE Tested	Yes
Agency/Standard	CSA, UL
CSA File Number	LR 7189
UL Rating	Recognized
UL File Number	E28476

Packaging Features

Packaging Method	Reel
Packaging Quantity	5000

Other

Wire/Cable Type	Discrete Wire
Wire Type	Stranded
For Use With	Standard Universal MATE-N-LOK(Pin)

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	Not Yet Reviewed
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: JUN 2020 (209) Candidate List Declared Against: JUL 2017 (174) 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	Not applicable for solder process capability

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

TE Model / Part # 455830-1
INSERTION TOOL

TE Model / Part # 539972-1
EXTRACTION TOOL

TE Model / Part # 770023-1
15P UMNLII IN-LNE PLUG HSG KIT

TE Model / Part # 770016-1
05P UMNLII IN-LNE PLUG HSG KIT



TE Model / Part # 770017-1
02P UMNLI IN-LNE PLUG HSG KIT



TE Model / Part # 770029-1
12P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770018-1
03P UMNLI IN-LNE PLUG HSG KIT



TE Model / Part # 770021-1
09P UMNLI IN-LNE PLUG HSG KIT



TE Model / Part # 770022-1
12P UMNLI IN-LNE PLUG HSG KIT



TE Model / Part # 770028-1
09P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770024-1
02P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770030-1
15P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770026-1
04P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770025-1
03P UMNLI IN-LINE CAP HSG KIT



TE Model / Part # 770019-1
04P UMNLI IN-LNE PLUG HSG KIT



TE Model / Part # 770027-1
06P UMNLI IN-LINE CAP HSG KIT




TE Model / Part # 770020-1
06P UMNLI IN-LNE PLUG HSG KIT




TE Model / Part # 9-1579007-5
EXTRACTION TOOL


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




Circular Power Connectors(2)



Connector Contacts(11)



Power Contacts(207)



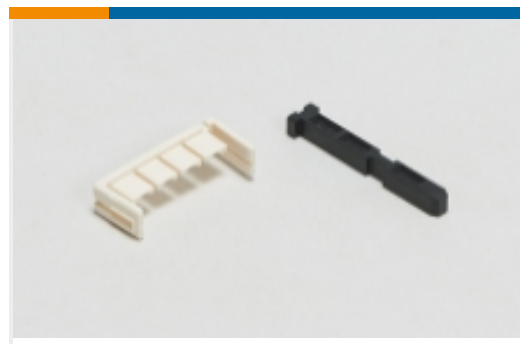
Rectangular Boots & Strain Relief(35)



Rectangular Connector Adapters(7)



Rectangular Connector Housings(3)



Rectangular Connector Keying Plugs(3)



Rectangular Connector Locking(4)



Rectangular Connector Seals(26)



Rectangular Power Connectors(716)



Wire-to-Board Headers & Receptacles (3)

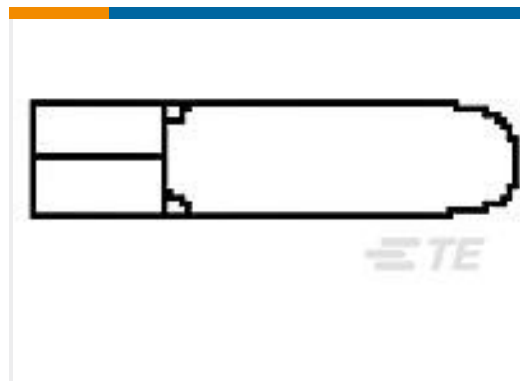
Customers Also Bought



TE Model / Part #4-2176363-7
RQ 0402 1K3 0.1% 10PPM 5K RL



TE Model / Part #770835-3
MINI UMNL PIN AU



TE Model / Part #323135
SOLIS TAB 22-16



TE Model / Part #SB0865
GO1327 1Pt100 W0.3 L13/D2.7mm



TE Model / Part #3-644662-2
02P MTA156 CONN ASSY 22AWG LF



TE Model / Part #42751-1
RING CRIMP 16-14 AWG BR



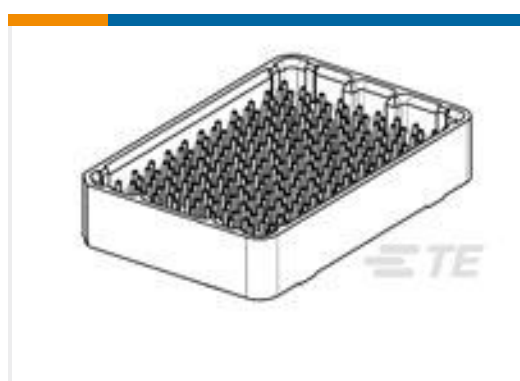
TE Model / Part #445705-1
AMPLIMITE COAX MIX,3C3



TE Model / Part #350925-6
UMNL SOK AUNI/PHBZ



TE Model / Part #5745883-2
PLUG ASSY,50P,HDP-20,CN



TE Model / Part #7-2057360-8
STRADA MESA,HD,ST,080,000,00,SN,
N,28

Documents



Product Drawings

UMNL II SOK SELECT AU/PHBZ

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_770012-6_G.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_770012-6_G.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_770012-6_G.3d_stp.zip](#)

English

3D PDF

English

Customer View Model

[ENG_CVM_770012-6_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_770012-6_C.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_770012-6_C.2d_dxf.zip](#)

English

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Datasheets & Catalog Pages

SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY

English

Product Specifications

Application Specification

English