



## RECTANGULAR POWER CONNECTORS



✓ Active

[↓](#) **PRODUCT DRAWING**  
English

[↓](#) **3D PDF**



TE CONNECTIVITY (TE)

### 06P MINI-UMNL ASSY VO SNNI\*

[MATE-N-LOK](#) | [Mini-Universal MATE-N-LOK](#)

1-770178-0

TE Internal Number: 1-770178-0

[Always EU RoHS/ELV Compliant](#)

Product Type **Header**

Housing Type **Plug**

Connector System **Wire-to-Board**

Applies To **Printed Circuit Board**

Contact Current Rating (A) **9.5**



### Product Drawings

[HEADER ASSEMBLY, 6 CKT, MINI UNIVERSAL, MATE-N-LOK](#)

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### CAD Files

[3D PDF](#)

PDF  
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[Customer View Model](#)

2D\_DXF.ZIP  
English

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.ZIP  
English

### Catalog Pages/Data Sheets

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

PDF  
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[1-1773458-0\\_MINI\\_UNIVERSAL\\_MATE\\_N\\_LOK\\_CONNECTOR\\_SYSTEM\\_QRG](#)

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## Product Specifications

Application Specification

[Mini-Universal MATE-N-LOK Connectors](#)

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## Product Environmental Compliance

TE Material Declaration

[MD\\_1-770178-0\\_02262016927\\_dmtec](#)

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Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

Product Type Features	Product Type	<b>Header</b>
	Housing Type	<b>Plug</b>
	Contact Type	<b>Pin</b>
Configuration Features	Number of Positions	<b>6</b>
	Centerline	<b>4.14 mm [ .163 in ]</b>
	PCB Mounting Orientation	<b>Vertical</b>
	Number of Rows	<b>2</b>
	Row-to-Row Spacing	<b>4.14 mm [ .163 in ]</b>
	Multiple Contact Types	<b>Without</b>
Electrical Characteristics	Contact Current Rating (A)	<b>9.5</b>
	Operating Voltage (VAC)	<b>600</b>
	Operating Voltage (VDC)	<b>600</b>
Contact Features	Contact Retention	<b>Without</b>
	Contact Termination Area Plating Material	<b>Tin</b>
	Contact Termination Area Plating Thickness	<b>3.81 µm [ 150 µin ]</b>
Termination Features	Wire/Cable Size (AWG)	<b>30 – 16</b>
	Wire/Cable Size (mm <sup>2</sup> )	<b>.05 – 1.308</b>
	Wire/Cable Size (CMA)	<b>100.5 – 2583</b>
	Termination Method to Wire/Cable	<b>Solder</b>
	Termination Method to PC Board	<b>Through Hole - Solder</b>
	Termination Post/Tail Length	<b>3.69 mm [ .145 in ]</b>

Mechanical Attachment	Mating Alignment	With
	Mating Retention	With
	PCB Mount Retention	With
	PCB Mount Retention Type	Boardlocks
	Mating Alignment Type	Chamfered Edges
	PCB Mount Alignment	Without
	Assembly Integration Feature	Without
	Mating Retention Type	Locking Tab
	Panel Mount Retention	Without
	Strain Relief	Without
Housing Features	UL Flammability Rating	UL 94V-0
	Housing Color	White
	Housing Material	Nylon
	Boardlock Material	Nylon
Dimensions	Width (mm)	9.83
	Height (mm)	13.49
	PCB Thickness (Recommended)	1.57 mm [ .062 in ]
	Length (mm)	13.97
	Insulation Diameter (Max) (mm)	3.2
Usage Conditions	Sealed Condition	Sealed
Operation/Application	Connector System	Wire-to-Board
	Applies To	Printed Circuit Board
	Operating Temperature	-55 – 105 °C [ -67 – 221 °F ]
Industry Standards	Glow Wire Rating	Standard Part - Not Glow Wire
	VDE Tested	Yes
	CSA Rating	Certified
	Agency/Standard Number	E28476
	UL Rating	Recognized
	CSA File Number	LR7189
	Agency/Standard	CSA, UL
Packaging Features	Packaging Method	Bag

Packaging Quantity200

OtherFor Use WithPlug Housing

Product Compliance

[Statement of Compliance](#)  
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[VIEW ALL PRODUCT COMPLIANCE](#)

