**INTRODUCTION:**
Adam Tech MTJ series Modular Jacks are a complete line of PCB and wire leaded jacks which are UL and CSA approved and meet all required FCC rules and regulations. Adam Tech offers a multitude of sizes (4P2C thru 10P10C) with styles including single, ganged and stacked versions with options of ferrite or magnetic filtering and or metal shielding. Jacks with integral LED’s and combination hybrids such as MTJ/USB jacks are also available. These jacks are available in thru-hole or SMT mounting.

**FEATURES:**
UL 1863 recognized versions  
FCC compliant to No. 47 CFR part 68  
Magnetic and Ferrite filtered types  
4,6,8 and 10 positions available  
Single, stacked or ganged  
Hi-Temp and LED options  
Unshielded or Metal Shielded  
Thru-Hole or SMT mounting  
Cat. 5 & 5e ANSI/TIA/EIA 568.2

**MATING PLUGS:**
Adam Tech modular plugs and all industry standard telephone plugs.

**SPECIFICATIONS:**
**Material:**  
Standard Insulator: PBT, or ABS, rated UL94V-0  
Optional Hi-Temp Insulator: Nylon 6T rated UL94V-0  
Insulator Colors: Black or medium gray  
Contacts: Phosphor Bronze  
Shield: Phosphor Bronze, Nickel plated

**Contact Plating:**  
Flat contacts: Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.  
Round contacts: Gold over Nickel underplate overall

**Electrical:**  
Operating voltage: 150V AC max.  
Current rating: 1.5 Amps max.  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 500 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**  
Insertion force: 4 contacts: 17.6N  
6 contacts: 20.6N  
8 contacts: 22.5N  
10 contacts: 24.5N  
Durability: 500 Cycles

**Temperature Rating:**  
Operating temperature: -40°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260C

**PACKAGING:**  
Anti-ESD plastic trays

**SAFETY AGENCY APPROVALS:**  
UL Recognized & CSA Certified, File no. E224049

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**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>MTJ</th>
<th>6</th>
<th>4</th>
<th>0</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIES INDICATOR</td>
<td>MTJ = Modular telephone jack</td>
<td></td>
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<tr>
<td>HOUSING PLUG SIZE</td>
<td>4, 6, 8 or 10</td>
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<tr>
<td>NO. OF CONTACT POSITIONS FILLED</td>
<td>2, 4, 6, 8 or 10</td>
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<tr>
<td>HOUSING TYPE</td>
<td>0, 1, 2, 2B, 2C, 3, 5, 7, 9, A, E, F, G, H, K, M, T, V, W, WA, WB, Y, Q</td>
<td></td>
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<tr>
<td>BODY COLOR</td>
<td>1 = Black 2 = Gray</td>
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<tr>
<td>PLATING</td>
<td>X = Gold Flash over Nickel underplate</td>
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<tr>
<td>OPTIONS</td>
<td>Add designator(s) to end of part number</td>
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<tr>
<td>S</td>
<td>Face shielded jack (Body type 0 only)</td>
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<tr>
<td>FSX</td>
<td>Full metal shield (Use FSA, FSB, FSD, FSE)</td>
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<tr>
<td>SMT</td>
<td>Surface mount tails, housings 0, 5, 9, G &amp; W with Hi-Temp insulator</td>
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<tr>
<td>N</td>
<td>No panel stops (Types: 1, 0, 2, 3, D)</td>
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<tr>
<td>K</td>
<td>Keyed telephone jack</td>
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<tr>
<td>HT</td>
<td>Hi-Temp insulator for Hi-Temp soldering processes up to 280°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)</td>
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<tr>
<td>PG</td>
<td>Panel ground tabs</td>
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<tr>
<td>KT</td>
<td>Kapton Tape pickup when applicable</td>
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</tbody>
</table>
MODULAR JACKS
COMPACT & SHIELDED JACK - TYPE 2, 2B & 2C
MTJ SERIES

TYPE 2
4P4C
6P6C
6P4C

TYPE 2B & 2C
4P4C
6P6C
6P4C
8P8C

Recommended PCB Layout