## CRISTEK'S P/N EQUIVALENT TO M83513 MIL SPEC.

**slash number (M83513/#)**  
22 = plug size 9-37  
23 = plug size 51  
24 = plug size 100  
25 = receptacle size 9-37  
26 = receptacle size 51  
27 = receptacle size 100

### number of contacts

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
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<td>1.390</td>
<td>±0.007</td>
<td>.565</td>
<td>.685</td>
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<tr>
<td>15</td>
<td>1.390</td>
<td>1.150</td>
<td>.715</td>
<td>.945</td>
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<td>1.690</td>
<td>1.450</td>
<td>.865</td>
<td>1.185</td>
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<td>25</td>
<td>1.740</td>
<td>1.500</td>
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<td>1.800</td>
<td>1.115</td>
<td>1.575</td>
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<td>2.100</td>
<td>1.265</td>
<td>1.875</td>
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<td>51</td>
<td>2.270</td>
<td>2.000</td>
<td>1.215</td>
<td>1.775</td>
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<tr>
<td>100</td>
<td>3.250</td>
<td>2.800</td>
<td>1.800</td>
<td>2.585</td>
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**Terminations**

<table>
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<td>.140</td>
<td>.015</td>
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<td>.172</td>
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</table>

**Shell Finish**

- C = Cadmium  
- N = Nickel

**Shell Hardware**

- N = No Hardware  
- P = Jackpost per M83513/05-07 sizes 9 thru 51  
- Jackpost per M83513/05-17 for size 100

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### Materials and Finishes

**Materials:**

- Shell: Aluminum Alloy  
- Insulator & Backshell: Glass Filled Thermoplastic  
- Contact: Copper Alloy  
- Interfacial Seal (Recept): Fluorosilicone Blend

**Finish:**

- Shell: Electroless Nickel or Cadmium over Electroless Nickel  
- Contact: Gold over Nickel

### Specifications:

- Current Rating: 3 Amps Max  
- Temperature Rating: -55°C to +125°C  
- Insulation Resistance: 5000 Megohms Min  
- DWV at Sea Level: 600 VAC  
- DWV at 70,000 ft Altitude: 150 VAC  
- Contact Retention: 5 lb Minimum Axial Load  
- Engagement Force: 6 oz Max  
- Separation Force: 0.5 oz Min

### Additional Information:

- For cross-referencing Cristek part numbers to M83513, see cross reference information in the front of this section.
- For mounting hardware options, see the hardware pages at the end of this section and design and performance in general accordance with M83513.
PLUG PCB LAYOUTS

0.100 X 0.100 GRID PATTERN OFFSET 0.050
RECEPTACLE PCB LAYOUTS

9 CONTACTS

15 CONTACTS

21 CONTACTS

25 CONTACTS

31 CONTACTS

37 CONTACTS

51 CONTACTS

100 CONTACTS

MILITARY MICRO-D METAL SHELL STRAIGHT BOARD MOUNT

SERIES M83513/22-27

CRISTEK.COM 888.265.9162

TOLERANCE: .005

.01

ANGLE ±1°

.100 X .100 GRID PATTERN OFFSET .050

REV H