PIC HT77210F
50 OHM MICROWAVE COAXIAL CABLE

CABLE CONSTRUCTION
1. Fluoropolymer Jacket (Olive Drab)
2. Round Silver-Plated Copper
3. Aluminum Polyimide
4. Silver-Plated Copper Flat Strip Braid
5. PTFE Dielectric
6. Solid Silver-Plated Copper

Designed specifically to serve High Frequency Applications on the Ku band & X band, this new Microwave Cable features minimum 200°C on all materials, Silver-Plated Copper throughout, plus: Inner Flat Strip Braid; High Temp Polyimide Foil; and Braided Shield.

Special tooling and specialized technicians ensure your custom cable assembly is done to precision—maximizing the performance of the PIC HT77210F with: Certified Test Process & Equipment-- ISO 9001/AS 9100; Phase-matched Ship Sets; Complete Lot Traceability; Certified Test Reports; and Improved Supply Chain Efficiency. [For quality assurance this cable is sold in an assembly only].

CONNECTOR DATA

<table>
<thead>
<tr>
<th>PIC P/N</th>
<th>CONNECTOR TYPE</th>
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<tbody>
<tr>
<td>120508</td>
<td>TNC Straight Plug</td>
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<tr>
<td>120509</td>
<td>TNC 90 Degree Plug</td>
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<tr>
<td>120521</td>
<td>TNC Bulkhead Jack</td>
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<tr>
<td>120510</td>
<td>N Straight Plug</td>
</tr>
<tr>
<td>120511</td>
<td>N 90 Degree Plug</td>
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<td>120514</td>
<td>SMA Straight Plug</td>
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<tr>
<td>120515</td>
<td>SMA 90 Degree Plug</td>
</tr>
<tr>
<td>120534</td>
<td>BMB Jack Snap Mount</td>
</tr>
<tr>
<td>120535</td>
<td>BMB SZ 5 Jack</td>
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</tbody>
</table>

Call PIC For Other Connector Availability

PHYSICAL DATA
• Conductor: 16 AWG Solid Silver-Plated Copper
• Operating Temperature: -55° to +200°C
• Outer Diameter: in (mm) 0.21 (5.28)
• Minimum Bend Radius: in (mm) 1.0 (25.4)
• Weight: lbs/100 ft (kg/100 m) 4.5 (6.7)
• Complies with RoHS (Directive 2002/95/EC)
• Complies with FAR Part 23 and 25, Appendix F

ELECTRICAL DATA
• Impedance: ohms 50
• Capacitance: pF/ft (m) 26.5 (87.0)
• Velocity of Propagation: % 76.5
• VSWR (Gated) Max 1.20:1
• RF Shielding Effectiveness: dB/min -90
• Attenuation: Nom / Max dB/100 ft (dB/100 m)
  - @1 GHz 7.6 / 8.4 (24.9 / 27.6)
  - @3 GHz 13.7 / 15.1 (44.9 / 49.5)
  - @6 GHz 20.0 / 22.0 (65.6 / 72.2)
  - @12 GHz 29.5 / 32.5 (96.8 / 106.6)
  - @18 GHz 37.3 / 40.1 (122.4 / 131.6)
  - @26 GHz 46.2 / 50.9 (151.6 / 167.0)
• K Values (nom loss): K1 = 0.232, K2 = 0.00034
• Formula for Attenuation: \( \text{Attenuation} = K1 \times \sqrt{F(MHz)} + K2 \times F(MHz) \)

All values nominal unless otherwise noted

2 WEEK LEAD TIME OR LESS ON MOST ASSEMBLIES