PIC Wire & Cable is a division of The Angelus Corporation, a leading provider of aerospace and defense industry solutions.
ISO 9001 • AS 9100 • FAA PMA Certified
www.picwire.com
phone 1.262.246.0500  toll free 1.800.742.3191
v.021918

PIC HT77300F
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 HT77300F 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>
</tr>
</thead>
<tbody>
<tr>
<td>120206</td>
<td>TNC Straight Plug</td>
</tr>
<tr>
<td>120209</td>
<td>TNC 90 Degree Plug</td>
</tr>
<tr>
<td>120221</td>
<td>TNC Bulkhead Jack</td>
</tr>
<tr>
<td>120210</td>
<td>N Straight Plug</td>
</tr>
<tr>
<td>120211</td>
<td>N 90 Degree Plug</td>
</tr>
<tr>
<td>120222</td>
<td>N Bulkhead Jack</td>
</tr>
<tr>
<td>120214</td>
<td>SMA Straight Plug</td>
</tr>
<tr>
<td>120215</td>
<td>SMA 90 Degree Plug</td>
</tr>
</tbody>
</table>

Call PIC For Other Connector Availability

PHYSICAL DATA
- Conductor: 12 AWG Solid Silver-Plated Copper
- Operating Temperature: -55° to +200°C
- Outer Diameter: 0.30 (7.62)
- Minimum Bend Radius: 1.5 (38.1)
- Weight: 1.5 (38.1)
- Complies with RoHS (Directive 2002/95/EC)
- Complies with FAR Part 23 and 25, Appendix F

ELECTRICAL DATA
- Impedance: 50 ohms
- Capacitance: 26.5 (87.0)
- Velocity of Propagation: 77.0
- VSWR (Gated) Max: 1.20:1
- RF Shielding Effectiveness: -90 dB/min
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
  - @1 GHz: 5.0 / 5.5 (16.4 / 18.0)
  - @3 GHz: 9.0 / 9.9 (29.5 / 32.5)
  - @6 GHz: 13.2 / 14.5 (43.3 / 47.6)
  - @12 GHz: 19.5 / 21.5 (64.0 / 70.5)
  - @18 GHz: 24.7 / 27.2 (81.0 / 89.2)
- K Values (nom loss): K1 = 0.15, K2 = 0.000255
- Formula for Attenuation: \( (K1 \cdot \sqrt{F(MHz)} + (K2 \cdot F(MHz)) \)

All values nominal unless otherwise noted

2 WEEK LEAD TIME OR LESS ON MOST ASSEMBLIES