

CABLE CONSTRUCTION

1. FEP 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

PIC P/N	CONNECTOR TYPE
120208	TNC Straight Plug
120209	TNC 90 Degree Plug
120221	TNC Bulkhead Jack
120210	N Straight Plug
120211	N 90 Degree Plug
120222	N Bulkhead Jack
120214	SMA Straight Plug
120215	SMA 90 Degree Plug

Call PIC For Other Connector Availability



PHYSICAL DATA

- Conductor 12 AWG Solid Silver-Plated Copper
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.30 (7.62)
- Minimum Bend Radius: in (mm) 1.5 (38.1)
- Weight: lbs/100 ft (kg/100 m) 8.8 (13.1)
- 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: % 77.0
- VSWR (Gated) Max 1.20:1
- RF Shielding Effectiveness: dB/min -90
- 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: $(K1 * \sqrt{F(MHz)}) + (K2 * F(MHz))$

All values nominal unless otherwise noted

2 WEEK LEAD TIME OR LESS ON MOST ASSEMBLIES