PIC MicroMATES®

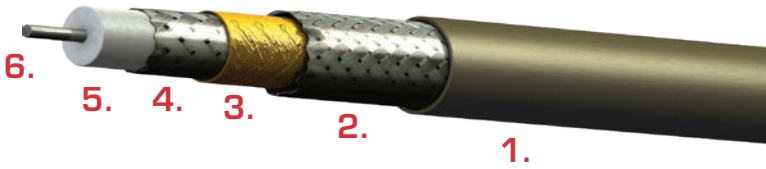
PRODUCT BULLETIN

PIC HT77300F

50 OHM MICROWAVE COAXIAL CABLE

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