

CABLE CONSTRUCTION

1. FEP Jacket (Olive Drab)
2. Round Silver-Plated Copper
3. Silver-Plated Copper Spiral Shield
4. PTFE Dielectric
5. Solid Silver-Plated Copper

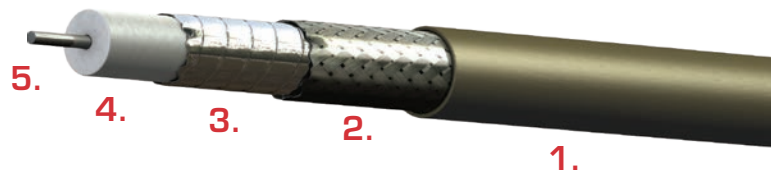
Designed specifically to serve High Frequency Applications on the Ku band & X band, this new Microwave Cable features minimum 200°C on all materials, Silver-Plated Copper throughout. HH85210F is 100% shielded construction, incorporating a flat spiral wrapped shield which achieves -110 dB shielding effectiveness, same as a solid copper tube. The inner spiral shield conforms to the low-loss PTFE dielectric for superior uniformity and stability of all operation parameters, initially and over time.

Special tooling and specialized technicians ensure your custom cable assembly is done to precision—maximizing the performance of the PIC HH85210F 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
120708	TNC Straight Plug
120709	TNC 90 Degree Plug
120721	TNC Bulkhead Jack
120710	N Straight Plug
120711	N 90 Degree Plug
120722	N Bulkhead Jack
120714	SMA Straight Plug
120715	SMA 90 Degree Plug

Call PIC For Other Connector Availability



PHYSICAL DATA *

- Conductor 14 AWG Solid Silver-Plated Copper
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.21 (5.33)
- Minimum Bend Radius: in (mm) 1.0 (25.4)
- Weight: lbs/100 ft (kg/100 m) 4.4 (6.5)
- 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) 24.0 (78.8)
- Velocity of Propagation: % 85.0
- VSWR (Gated) Max 1.20:1
- RF Shielding Effectiveness: dB/min -110
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @1 GHz 6.0 / 6.6 (19.7 / 21.7)
 - @3 GHz 10.6 / 11.8 (34.8 / 38.7)
 - @6 GHz 15.6 / 17.3 (51.2 / 56.8)
 - @12 GHz 22.9 / 25.4 (75.1 / 83.3)
 - @18 GHz 28.9 / 32.1 (94.8 / 105.3)
 - @26 GHz 35.9 / 39.9 (117.8 / 130.9)
- K Values (max loss): K1 = 6.30, K2 = 0.30
- Formula for Attenuation: $(K1 * \sqrt{F(GHz)} + (K2 * F(GHz)))$

**Preliminary numbers*

All values nominal unless otherwise noted

CALL 800.742.3191 REGARDING CABLE AVAILABILITY