

CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. SPCCA Braided Shield
3. SPC Spiral Shield
4. PTFE Dielectric
5. SPCCA Center Conductor

This ultra lightweight and flexible cable has a silver-plated copper clad aluminum (SPCCA) center conductor and braided shield. Our next generation of light weight cable is more than 30% lighter than cables of similar size and 80% lighter & lower loss than RG393. It is laser-markable, easy to terminate, and easily assembled in the field.

UH67163 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 operating parameters, initially and over time.

It is Skydrol resistant, RoHS compliant and meets the FAA flammability requirements 14 CFR Part 25.869 (a)(4) Amdt 25-113 Appendix F Part 1 (a)(3); complies with MIL-C-17 as applicable.

PIC  **RF MATES**[®] **ULTRALITE**



PHYSICAL DATA

- Conductor 14 AWG Solid SPCCA
- Operating Temperature -65° to +150°C
- Outer Diameter: in (mm) 0.227 (5.77)
- Minimum Bend Radius: in (mm) 1.20 (30.48)
- Weight: lbs/100 ft (kg/100 m) 3.4 (5.1)

ELECTRICAL DATA

- Impedance: ohms 50
- Capacitance: pF/ft (m) 24.0 (78.8)
- Velocity of Propagation: % 84
- Time Delay: ns/ft (m) 1.21 (3.97)
- RF Shielding Effectiveness: dB/min -110
- DC Resistance: ohms/1000 ft (m) 4.10 (13.46)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @400 MHz 3.9 / 4.3 (12.8 / 14.1)
 - @1.0 GHz 6.2 / 6.8 (20.3 / 22.3)
 - @1.6 GHz 7.9 / 8.7 (25.9 / 28.5)
 - @5.0 GHz 14.3 / 15.9 (46.9 / 52.2)
- K Values (nom loss): K1 = 5.90, K2 = 0.216
- Formula for Attenuation: $(K1 * \sqrt{F(GHz)}) + (K2 * F(GHz))$

All values nominal unless otherwise noted



PIC P/N **CONNECTOR TYPE**

ARINC

150501	600 Size 1
150502	600 Modified Size 1
150503	600 Size 5

M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
150512	BNC Straight Plug	150514	SMA Straight Plug
150513	BNC 90° Plug	150515	SMA 90° Plug
150504	HN Straight Plug	150525	SMA Inline Jack
150505	HN 90° Plug	150508	TNC Straight Plug
150510	N Straight Plug	150509	TNC 90° Plug
150511	N 90° Plug	150509-L	TNC 90° Plug (Long)
150522	N Bulkhead Jack	150521	TNC Bulkhead Jack
150569	SC Straight Plug	150523	TNC Inline Jack



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