

CABLE CONSTRUCTION

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

This ultra lightweight and flexible cable has a silver-plated copper clad aluminum (SPCCA) braided shield. Our next generation of light weight cable is more than 30% lighter than cables of similar size and 56% lighter & significantly lower loss than RG400/142. It is laser-markable, easy to terminate, and easily assembled in the field.

UH44193 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 19 AWG Solid SPCCS
- Operating Temperature -65° to +150°C
- Outer Diameter: in (mm) 0.152 (3.86)
- Minimum Bend Radius: in (mm) 0.80 (20.32)
- Weight: lbs/100 ft (kg/100 m) 1.9 (2.9)

ELECTRICAL DATA

- Impedance: ohms 50
- Capacitance: pF/ft (m) 25.0 (82.1)
- Velocity of Propagation: % 81
- Time Delay: ns/ft (m) 1.25 (4.10)
- RF Shielding Effectiveness: dB/min -110
- DC Resistance: ohms/1000 ft (m) 19.1 (62.7)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @400 MHz 6.5 / 7.3 (21.3 / 23.9)
 - @1.0 GHz 10.4 / 11.6 (34.1 / 38.1)
 - @1.6 GHz 13.3 / 14.8 (43.6 / 48.6)
 - @5.0 GHz 24.3 / 27.0 (79.7 / 88.6)
- K Values (nom loss): K1 = 10.07, K2 = 0.342
- Formula for Attenuation: $(K1 * \sqrt{F(GHz)}) + (K2 * F(GHz))$

All values nominal unless otherwise noted



PIC P/N **CONNECTOR TYPE**

ARINC

150101	600 Size 1
150102	600 Modified Size 1
150103	600 Size 5
150129	Size 8 Socket

M39029 for MIL-C-38999 Connector

150139	Size 8 Socket
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M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
150112	BNC Straight Plug	150114	SMA Straight Plug
150113	BNC 90° Plug	150115	SMA 90° Plug
150113-L	BNC 90° Plug (Long)	150108	TNC Straight Plug
150127	BNC Inline Jack	150109	TNC 90° Plug
150128	BNC Bulkhead Jack	150121	TNC Bulkhead Jack
150106	C Straight Plug		
150107	C 90° Plug		
150110	N Straight Plug		
150111	N 90° Plug		
150122	N Bulkhead Jack		



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