

CABLE CONSTRUCTION

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

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 60% lighter than S22089. It is laser-markable, easy to terminate, and easily assembled in the field.

UH22089 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 10 AWG Solid SPCCA
- Operating Temperature -65° to +150°C
- Maximum Temperature -65° to +200°C
- Outer Diameter: in (mm) 0.345 (8.76)
- Minimum Bend Radius: in (mm) 1.70 (43.18)
- Weight: lbs/100 ft (kg/100 m) 7.2 (10.7)

ELECTRICAL DATA

- Impedance: ohms 50
- Capacitance: pF/ft (m) 24.0 (78.8)
- Velocity of Propagation: % 83
- Time Delay: ns/ft (m) 1.22 (4.00)
- RF Shielding Effectiveness: dB/min -110
- DC Resistance: ohms/1000 ft (m) 2.00 (6.56)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @400 MHz 2.2 / 2.4 (7.2 / 7.9)
 - @1.0 GHz 3.5 / 3.9 (11.5 / 12.8)
 - @1.6 GHz 4.4 / 4.9 (14.4 / 16.1)
 - @5.0 GHz 8.1 / 9.0 (26.6 / 29.5)
- K Values (nom loss): K1 = 3.31, K2 = 0.135
- Formula for Attenuation: $(K1 * \sqrt{F(GHz)}) + (K2 * F(GHz))$

All values nominal unless otherwise noted

PIC P/N **CONNECTOR TYPE**

ARINC

150401	600 Size 1
150402	600 Modified Size 1

M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
150412	BNC Straight Plug	150414	SMA Straight Plug
150413	BNC 90° Plug	150415	SMA 90° Plug
150406	C Straight Plug	150408	TNC Straight Plug
150407	C 90° Plug	150409	TNC 90° Plug
150410	N Straight Plug	150409-L	TNC 90° Plug (Long)
150411	N 90° Plug	150421	TNC Bulkhead Jack
150422	N Bulkhead Jack		

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