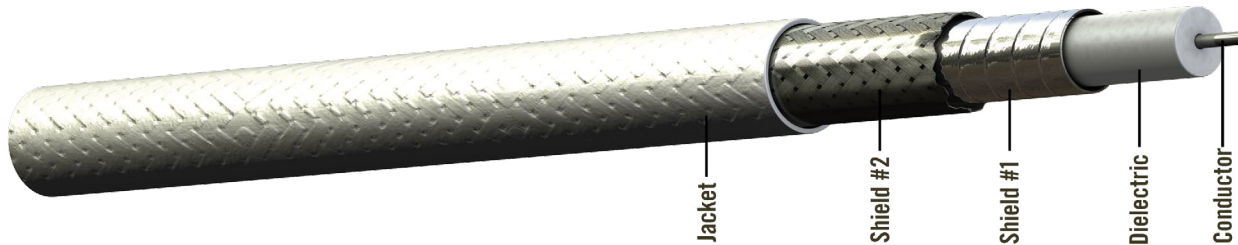


UH67163



CABLE CONSTRUCTION

Conductor: Silver-Plated Copper-Clad Aluminum
Dielectric: PTFE
Shield #1: Silver-Plated Copper Flat Spiral Wrap

Shield #2: Silver-Plated Copper-Clad Aluminum Braid
Jacket: Extruded ETFE, White (Laser Markable)

UH67163 is an UltraLite 50 Ohm premium coaxial cable for proven performance in the aerospace and defense markets. The UH67163 cable is constructed with low loss and ultra-lightweight materials to provide an extremely lightweight and low loss coaxial cable. With a silver-plated copper clad aluminum (SPCCA) braided shield and a flat spiral wrapped shield, The UH67163 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. Due to its construction, the UH67163 is more than 30% lighter than cables of similar size and 80% lighter & lower loss than RG393.

PHYSICAL DATA

Conductor: 14 AWG Solid SPCCA
Temperature Range: -65 to +150°C
Outer Diameter: in (mm) 0.227 (5.77)
Minimum Bend Radius: in (mm) 1.2 (30.48)
Weight: lbs/100 ft (kg/100 m) 3.4 (5.1)

ELECTRICAL DATA

Impedance: 50 ohms
Capacitance: pF/ft (m) 24.7 (81)
Velocity of Propagation: 83%
Time Delay: ns/ft (m) 1.22 (4)
Shielding Effectiveness: dB/min -110
DC Resistance: ohms/1000 ft (m) 4.1 (13.5)

ENVIRONMENTAL DATA

Skydrol Resistant: SAE AS4373E, Method 601
RoHS Compliant: RoHS Directive 2002/95/EC
Flame / Smoke Requirements: FAR Part 25.869 (a) App. F, Part 1, (a)(3)
Berry Specialty Metals Compliance: DFARS 252.225-7014, Alt 1

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@0.4 GHz	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)

Formula for Attenuation:
 $(K1 \times \sqrt{F(\text{MHz})}) + (K2 \times F(\text{MHz}))$

K Values (nom loss):
 K1 = 0.187 K2 = 0.000216

All values nominal, unless otherwise noted

UH67163 ULTRALITE COAXIAL CABLE

CONTACTS/CONNECTORS FOR UH67163

ARINC CONTACTS

PART #	CONTACT TYPE
150501	600 Size 1 Socket
150502	600 Modified Size 1 Socket
150503	600 Size 5 Socket

M39029 FOR MIL-C-38999 CONTACTS

PART #	CONTACT TYPE
150538	Size 8 Pin
150539	Size 8 Socket

SPECIAL PURPOSE

PART #	CONTACT TYPE
150520	Rockwell ProLine Avionics Coaxial Socket

M39012 CONNECTORS

PART #	CONNECTOR TYPE
150512	BNC Straight Plug
150513	BNC 90° Plug
150513-L	BNC 90° Plug (Long)
150504	HN Straight Plug
150505	HN 90° Plug
150510	N Straight Plug
150511	N 90° Plug
150522	N Bulkhead Jack
150569	SC Straight Plug
150549	QMA Straight Plug
150550	QMA 90° Plug
150514	SMA Straight Plug
150515	SMA 90° Plug
150525	SMA Inline Jack
150508	TNC Straight Plug
150509	TNC 90° Plug
150509-L	TNC 90° Plug (long)
150521	TNC Bulkhead Jack
150523	TNC Inline Jack