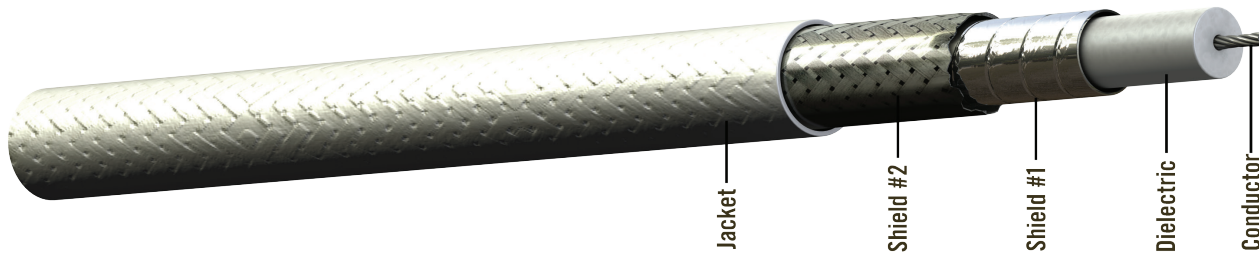


S65161-A



CABLE CONSTRUCTION

Conductor: Silver-Plated Copper

Dielectric: PTFE

Shield #1: Silver-Plated Flat Spiral Braid

Shield #2: Silver-Plated Copper Braid

Jacket: Extruded ETFE, White (Laser Markable)

S65161-A is a 50 Ohm coaxial cable and the industry's workhorse, with decades of proven performance in the aerospace and defense markets. The S65161-A features a 100% shielded construction, incorporating both silver-plated copper spiral (inner) and braided (outer) shields. The electrical characteristics of S65161-A are comparable to standard RG393 coax cable, yet S65161-A weighs less than 25% of RG393 cable.

PHYSICAL DATA

Conductor:	16 AWG Stranded SPC
Temperature Range:	-65 to +150°C
Outer Diameter: in (mm)	0.195 (4.95)
Minimum Bend Radius: in (mm)	1 (25.4)
Weight: lbs/100 ft (kg/100 m)	3.5 (5.2)

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

ELECTRICAL DATA

Impedance:	50 ohms
Capacitance: pF/ft (m)	26 (85.3)
Velocity of Propagation:	83%
Time Delay: ns/ft (m)	1.23 (4.04)
Shielding Effectiveness: dB min	-110
DC Resistance: ohms/1000 ft (m)	3.9 (12.8)

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@0.4 GHz	5.1/5.6	(16.7/18.4)
@1.0 GHz	8.2/9.1	(26.9/29.9)
@1.6 GHz	10.5/11.6	(34.4/38.1)
@5.0 GHz	19.2/21.1	(63.0/69.2)

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

K Values (nom loss):
 K1 = 0.251 K2 = 0.0003

All values nominal, unless otherwise noted

S65161-A 50 OHM COAXIAL CABLE

CONTACTS/CONNECTORS FOR S65161-A

ARINC CONTACTS

PART #	CONTACT TYPE
190519A	404 Size 1 Socket
190501A	600 Size 1 Socket
190502A	600 Modified Size 1 Socket
190503	404/600 Size 5 Socket

M39012 CONNECTORS

PART #	CONNECTOR TYPE
190512A	BNC Straight Plug
190513A	BNC 90° Plug
190506A	C Straight Plug
190507A	C 90° Plug
190504A	HN Straight Plug
190505A	HN 90° Plug
190510A	N Straight Plug
190511A	N 90° Plug
190524A	N Inline Jack
190522A	N Bulkhead Jack
190514A	SMA Straight Plug
190514A-G	SMA Straight Plug (Gold Plated)
190515A	SMA 90° Plug
190515A-G	SMA 90° Plug (Gold Plated)
190525A-G	SMA Inline Jack (Gold Plated)
190508A	TNC Straight Plug
190509A	TNC 90° Plug
190531A	TNC 75° Plug
190523A	TNC Inline Jack
190521A	TNC Bulkhead Jack