

CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Round Silver Plated Copper
3. Silver-Plated Copper Spiral Shield
4. PTFE Dielectric
5. Stranded Silver-Plated Copper



This is a flexible, unusually lightweight cable with electrical characteristics comparable to RG393, yet weighs less than 25%. It is half the diameter (and thus far more flexible), laser-markable, easier to terminate, and easily assembled in the field.

S65161-A is 100% shielded construction, incorporating both silver-plated copper spiral (inner) and braided (outer) shields. The inner spiral shield conforms to the low-loss expanded 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 of FAR Part 23 and 25, Appendix F; complies with MIL-C-17 as applicable.

PHYSICAL DATA

• Conductor	16 AWG Stranded SPC
• Operating Temperature	-65° to +200°C
• Outer Diameter: in (mm)	0.20 (4.95)
• Minimum Bend Radius: in (mm)	1.00 (25.40)
• Weight: lbs/100 ft (kg/100 m)	3.5 (5.2)

ELECTRICAL DATA

• Impedance: ohms	50
• Capacitance: pF/ft (m)	26.0 (85.3)
• Velocity of Propagation: %	83.0
• Time Delay: ns/ft (m)	1.23 (4.04)
• RF Shielding Effectiveness: dB/min	-110
• DC Resistance: ohms/1000 ft (m)	3.9 (12.8)
• Attenuation: Nom / Max	dB/100 ft (dB/100 m)
• @400 MHz	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)
• K Values (max loss):	K1 = 8.72, K2 = 0.33
• Formula for Attenuation:	$(K1 * \sqrt{F(GHz)}) + (K2 * F(GHz))$

All values nominal unless otherwise noted

PIC P/N **CONNECTOR TYPE**

ARINC

190519A	404 Size 1
190501A	600 Size 1
190502A	600 Modified Size 1
190503A	404/600 Size 5

M39012

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190512A	BNC Straight Plug	190514A	SMA Straight Plug
190513A	BNC 90° Plug	190515A	SMA 90° Plug
190527A	BNC Inline Jack	190525A	SMA Inline Jack
190506A	C Straight Plug	190508A	TNC Straight Plug
190507A	C 90° Plug	190509A	TNC 90° Plug
190504A	HN Straight Plug	190531A	TNC 75° Plug
190505A	HN 90° Plug	190523A	TNC Inline Jack
		190521A	TNC Bulkhead Jack
190510A	N Straight Plug		
190511A	N 90° Plug		
190524A	N Inline Jack		
190522A	N Bulkhead Jack		

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