

## 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**

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

**M39012**

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

*Die Sets Available On Loan Or For Purchase From PIC  
Refer To Connector Drawing For Tooling  
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