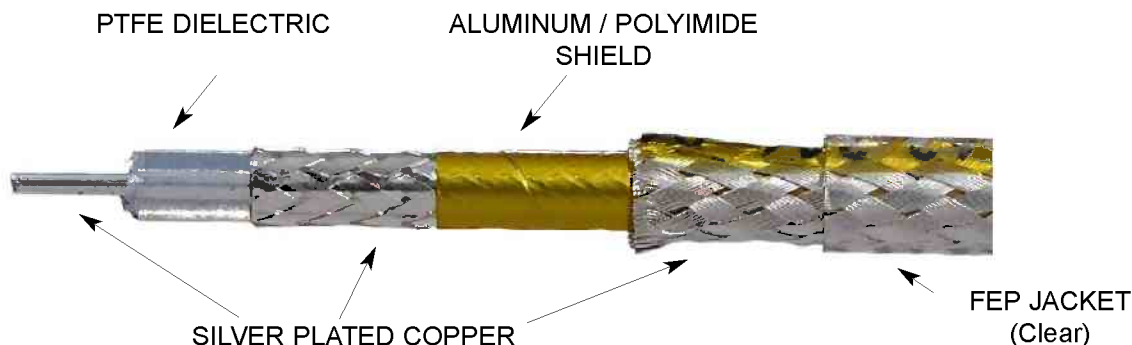


## LOW LOSS 50Ω COAXIAL CABLE



This cable is particularly suitable for GPS, TCAS, MLS, Mode S and SATCOM installations. It is dimensionally identical to RG142, but has lower loss and improved shielding.

This special coaxial design incorporates a multi-layered shielding technique that combines conventional shields with an inner braid woven of flat strips of silver plated copper. This "unitized" shield reduces attenuation at frequencies over 1GHz when compared to round wire braids in standard coaxial cables. Additionally, the cable VSWR is lower because the braids can be applied more uniformly. The attenuation and VSWR variation due to aging and flexure is substantially less.

S44193 can be terminated with standard RG142/RG400 connectors.

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

### ELECTRICAL DATA

Conductors	19 AWG Solid SPC	Impedance (ohms)	50
Temperature	-55°C to +200°C	Capacitance (pF/ft)	29.3
Outer Diameter (in.)	0.195	Velocity of Propagation (%)	70
Minimum Bend Radius (in.)	1.0	Time Delay (ns/ft)	1.45
Weight (lbs / 100ft)	4.3	Shielding Effectiveness (dB)	-90
		Attenuation (dB/100 ft) Nom/Max	@ 400 MHz 7.0 / 7.7
			@ 1.0 GHz 11.3 / 12.4
			@ 1.6 GHz 14.6 / 16.0
			@ 5.0 GHz 27.1 / 29.8

All values nominal unless otherwise noted  
See connector information on the next sheet



**MOST CABLES ARE IN STOCK AND AVAILABLE FOR QUICK DELIVERY  
PLEASE CONTACT CUSTOMER SERVICE FOR DETAILS @ 262-246-0500**



**CONNECTORS FOR PIC P/N S44193***Also fit PIC P/N S44191, S44193, RG142 and RG400*

<b>CONTACTS</b>	<b>PIC P/N</b>
<b>ARINC</b>	
404 Size 1	190119
600 Size 1	190101
600 Modified Size 1	190102
600 Size 5	110123
<b>RF CONNECTORS</b>	
BNC Straight Plug	190112
BNC 90° Plug	190113
BNC InLine Jack	190127
BNC Bulkhead Jack	110193
C Straight Plug	190106
C 90° Plug	190107
HN Straight Plug	190104
HN 90° Plug	190105
N Straight Plug	190110
N 90° Plug	190111
N Bulkhead Jack	110087
SMA Straight Plug	110198
SMA 90° Plug	110207
TNC Straight Plug	190108
TNC 90° Plug	190109
TNC 75° Plug	190131
TNC Bulkhead Jack	190121

*DIE SETS AVAILABLE ON LOAN OR FOR PURCHASE FROM PIC**REFER TO CONNECTOR DRAWING FOR TOOLING*