

CABLE CONSTRUCTION

1. FEP Jacket (Clear)
2. Silver-Plated Copper Shield
3. Silver-Plated Copper Flat Strip Braid
4. PTFE Dielectric
5. Silver-Plated Copper Conductor



Designed as a lightweight replacement for M17/60-RG142, S88207 is two-thirds the diameter and less than half the weight — 19 lbs vs 43 lbs per 1,000 ft. for RG142. This is accomplished through the use of a low-loss PTFE expanded-tape dielectric between the center conductor and the shield. In addition, the inner braid is a silver-plated copper strip braid, offering improved shielding and greater strength than conventional wire braid.

Attenuation figures are approximately 20% better than RG142. An FEP jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

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	20 AWG Solid SPC
• Operating Temperature	-55° to +200°C
• Outer Diameter: in (mm)	0.13 (3.30)
• Minimum Bend Radius: in (mm)	0.65 (16.51)
• Weight: lbs/100 ft (kg/100 m)	1.9 (2.8)

ELECTRICAL DATA

• Impedance: ohms	50
• Capacitance: pF/ft (m)	25.0 (82.0)
• Velocity of Propagation: %	80.0
• Time Delay: ns/ft (m)	1.27 (4.17)
• RF Shielding Effectiveness: dB/min	-80
• DC Resistance: ohms/1000 ft (m)	10.3 (33.8)
• Attenuation: Nom / Max	dB/100 ft (dB/100 m)
• @400 MHz	8.0 / 8.8 (26.2 / 28.9)
• @1.0 GHz	12.8 / 14.1 (42.0 / 46.3)
• @1.6 GHz	16.4 / 18.0 (53.8 / 59.1)
• @5.0 GHz	30.0 / 33.0 (98.4 / 108.3)
• K Values (nom loss):	K1 = 0.39, K2 = 0.00049
• Formula for Attenuation:	$(K1 * \sqrt{F(MHz)}) + (K2 * F(MHz))$

All values nominal unless otherwise noted

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
ARINC			
190819	404 Size 1	190803	404/600 Size 5
190801	600 Size 1	190837	Size 8 Pin
190802	600 Modified Size 1	190829	Size 8 Socket

D-SUB			
110286	Size 8 Pin		
110260	Precision 50 ohm Size 8 Pin		
110212	Size 8 Socket		

M39029 for MIL-C-38999 Connector

190838 / 190838-01	Size 8 Pin : w/Enviro Seal (-01)		
190839 / 190839-01	Size 8 Socket : w/Enviro Seal (-01)		
190866	Size 12 Pin		
190867	Size 12 Socket		

PIC P/N	CONNECTOR TYPE	PIC P/N	CONNECTOR TYPE
190812	BNC Straight Plug	110566	QMA Straight Plug
190813	BNC 90° Plug	110567	QMA 90° Plug
190827	BNC Inline Jack	190814	SMA Straight Plug
190806	C Straight Plug	190815	SMA 90° Plug
190807	C 90° Plug	190825	SMA Inline Jack
190805	HN 90° Plug	190808	TNC Straight Plug
190810	N Straight Plug	190809	TNC 90° Plug
190811	N 90° Plug	190809-L	TNC 90° Plug (Long)
190822	N Bulkhead Jack	190823	TNC Inline Jack
		190821	TNC Bulkhead Jack

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