CABLE CONSTRUCTION

1. Fluoropolymer 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. A fluoropolymer 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: \( (K_1 \cdot \sqrt{F(MHz)}) + (K_2 \cdot F(MHz)) \)

All values nominal unless otherwise noted
## CONNECTORS

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