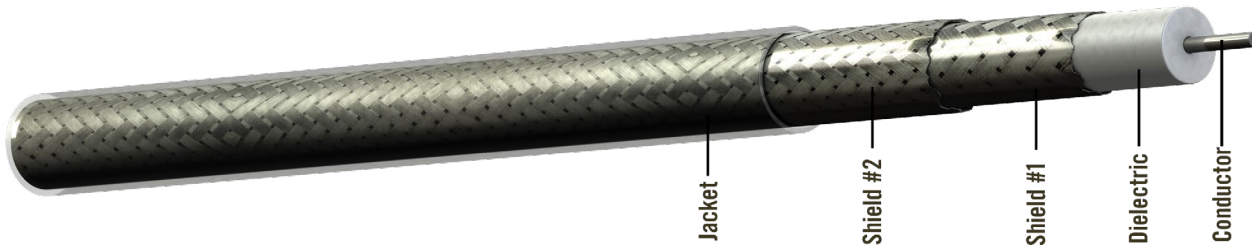


S88207



CABLE CONSTRUCTION

Conductor: Solid Silver-Plated Copper

Dielectric: PTFE

Shield #1: Silver-Plated Copper Flat Strip Braid

Shield #2: Silver-Plated Copper Braid

Jacket: Extruded FEP, Clear

S88207 is a 50 Ohm coaxial cable and the industry's workhorse, with decades of proven performance in the aerospace and defense markets. The S88207 coax cable features low-loss PTFE expanded tape dielectric between the center conductor and the shield and inner braid of silver-plated copper strip braid which provides improved shielding and greater strength than conventional wire braid found in M17/60-RG142 cable. When compared to RG142 coax cable, the S88207 has approximately 20% better attenuation figures and less than half the weight (19 lbs vs 43 lbs per 1,000 ft).

PHYSICAL DATA

| | |
|--------------------------------------|------------------|
| Conductor: | 20 AWG Solid SPC |
| Temperature Range: | -55 to +200°C |
| Outer Diameter: in (mm) | 0.13 (3.3) |
| Minimum Bend Radius: in (mm) | 0.65 (16.51) |
| Weight: lbs/100 ft (kg/100 m) | 1.9 (2.8) |

ENVIRONMENTAL DATA

| | |
|---|--|
| Skydrol Resistant: | SAE AS4373E, Method 601 |
| RoHS Compliant: | RoHS Directive 2002/95/EC) |
| Flame / Smoke Requirements: | FAR Part 25.869 (a) App. F, Part 1, (a)(3) |
| Berry Specialty Metals Compliance: | DFARS 252.225-7014, Alt 1 |

ELECTRICAL DATA

| | |
|--|-------------|
| Impedance: | 50 ohms |
| Capacitance: pF/ft (m) | 25 (82) |
| Velocity of Propagation: | 80% |
| Time Delay: ns/ft (m) | 1.27 (4.17) |
| Shielding Effectiveness: dB/min | -80 |
| DC Resistance: ohms/1000 ft (m) | 10.3 (33.8) |

ATTENUATION DATA

| Frequency | Nom / Max dB/100 ft | Nom / Max (dB/100 m) |
|-----------|------------------------|-------------------------|
| @0.4 GHz | 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) |

Formula for Attenuation:
 $(K1 \times \sqrt{F(\text{MHz})}) + (K2 \times F(\text{MHz}))$

K Values (nom loss):
 K1 = 0.39 K2 = 0.00049

All values nominal, unless otherwise noted

S88207 50 OHM COAXIAL CABLE

CONTACTS/CONNECTORS FOR S88207

ARINC CONTACTS

| PART # | CONTACT TYPE |
|--------|----------------------------|
| 190819 | 404 Size 1 Socket |
| 190801 | 600 Size 1 Socket |
| 190802 | 600 Modified Size 1 Socket |
| 190803 | 404/600 Size 5 Socket |
| 190837 | Size 8 Pin |
| 190829 | Size 8 Socket |

D-SUB CONTACTS

| PART # | CONTACT TYPE |
|--------|--------------------------------|
| 110286 | Size 8 Pin |
| 111113 | Precision 50 ohm Size 8 Pin |
| 110212 | Size 8 Socket |
| 110260 | Precision 50 ohm Size 8 Socket |

M39029 FOR MIL-C-38999 CONTACTS

| PART # | CONTACT TYPE |
|-----------|---------------------------------------|
| 190838 | Size 8 Pin |
| 190838-01 | Size 8 Pin (w/ Environmental Seal) |
| 190839 | Size 8 Socket |
| 190839-01 | Size 8 Socket (w/ Environmental Seal) |
| 190866 | Size 12 Pin |
| 190867 | Size 12 Socket |

M39012 CONNECTORS

| PART # | CONNECTOR TYPE |
|----------|---------------------|
| 190812 | BNC Straight Plug |
| 190813 | BNC 90° Plug |
| 190806 | C Straight Plug |
| 190807 | C 90° Plug |
| 190805 | HN 90° Plug |
| 190810 | N Straight Plug |
| 190811 | N 90° Plug |
| 190822 | N Bulkhead Jack |
| 110566 | QMA Straight Plug |
| 110567 | QMA 90° Plug |
| 190814 | SMA Straight Plug |
| 190815 | SMA 90° Plug |
| 190825 | SMA In-Line Jack |
| 190808 | TNC Straight Plug |
| 190809 | TNC 90° Plug |
| 190809-L | TNC 90° Plug (Long) |
| 190821 | TNC Bulkhead Jack |