

## Low Smoke - Non-Halogen Military/Aerospace Coax

### Features & Benefits

- Rugged Abrasion Resistant Jacket
- Excellent Shielding Effectiveness
- Fire Retardant (non-halogen)
- Light Weight
- Flexible for Ease of Deployment
- Excellent Connector Selection



• **Flexible:** With very tight minimum bend radius, LSSB cable can be easily routed into and through tight spaces. Ideal for tactical deployment and retrieval.

• **Excellent Loss:** LSSB has lower loss than other cables of the same size and is significantly less than the M17 spec requirement.

• **Fire Retardant:** A black UV resistant non-halogen Low Smoke - Fire Retardant cross-linked polyethylene jacket makes the cable rugged and resistant to the full range of military/defense environments. LSSB cables easily achieve FAR 25, NES-711, NES-713 compliance.

• **RF Shielding:** High coverage (>95%) braids, result in >40-60 dB RF shielding (>80 dB - 120 dB crosstalk) and excellent interference immunity (ingress and egress).

• **Connectors and Assemblies:** A full range of connector interfaces is available in crimp or clamp styles. Custom pre-terminated and tested assemblies with phase matching, insertion loss matching, and other special electrical or marking requirements can also be provided.

### LSSB Shipboard Coaxial Cables

TMS & M17 Number	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight lbs/foot (kg/m)	Impedance ohms Vp(%)	Capacitance pF/foot (pF/m)	DC Resistance ohms/1kft (/km)	Oper. Voltage kvrms	Temp. Range F (C)	Test Freq. GHz
LSSB-RG6 M17/180-00001	CCS 0.0285 (0.72)	PE 0.185 (4.70)	34 SC: 34 BC 0.243 (6.17)	XLPE 0.332 (8.43)	0.092 (0.137)	75 +/- 3 65.9	20.6 (67.6)	32.2 (105.6)	1.1 (3.6)	2.7 (-30+80)	3 GHz
LSSB-RG11 M17/181-00001	TC 7/.0159 0.0477 (1.21)	PE 0.285 (7.24)	33 BC 0.318 (8.08)	XLPE 0.405 (10.29)	0.142 (0.212)	75 +/-3 65.9	20.6 (67.6)	6.1 (20.0)	1.2 (3.9)	5.0 (30+80)	3 GHz
LSSB-RG58 M17/183-00001	TC 19/.0072 0.0355 (0.900)	PE 0.116 (2.95)	36 BC 0.139 (3.53)	XLPE 0.195 (4.95)	0.03 (0.045)	50 +/-2 65.9	30.8 (101.1)	10.9 (35.8)	4.1 (13.5)	1.9 (-30 +80)	0.05- 1 GHz
LSSB-RG214 M17/190-00001	SC 7/.0296 0.089 (2.26)	PE 0.285 (7.24)	34 SC:34 SC 0.343 (8.71)	XLPE 0.425 (10.80)	0.154 (0.229)	50 +/-2 65.9	30.8 (101.1)	1.7 (5.6)	1.3 (4.3)	5.0 (-30 +80)	0.05- 11 GHz
LSSB-RG223 M17/194-00001	SC 0.035 (0.889)	PE 0.116 (2.95)	36 SC:36 SC 0.162 (4.11)	XLPE 0.212 (5.38)	0.044 (0.066)	50 +/-2 65.9	30.8 (101.1)	8.2 (26.9)	2.2 (7.2)	1.9 (-30 +80)	0.05- 2.5 GHz

See M17 tables for additional sizes and armored versions

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