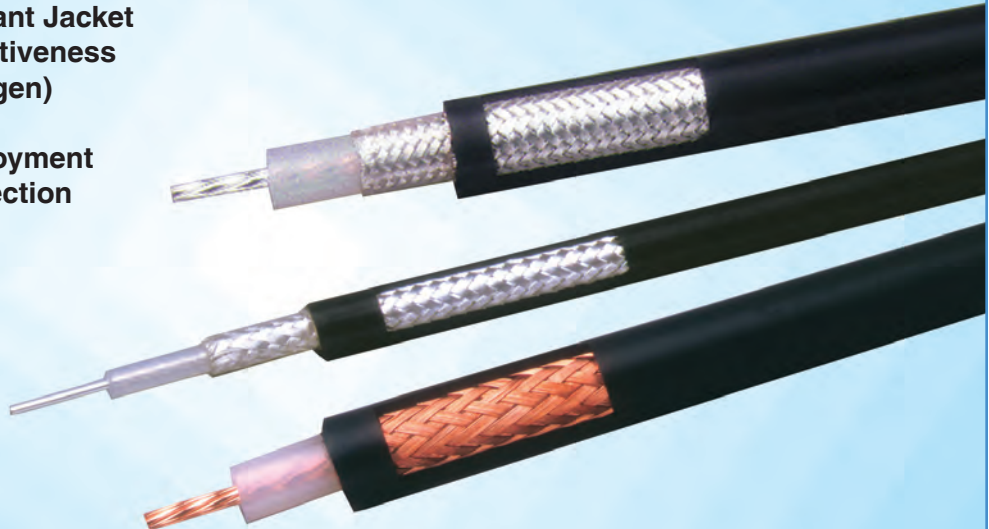


- MIL-Spec Air Frame, Shipboard, Ground (Tactical)

## 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) Cent. Cond Shield (s)	Oper. Voltage kVrms	Temp. Range F (C)	Test Freq.
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 7/0.0159 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 19/0.0072 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 7/0.0296 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

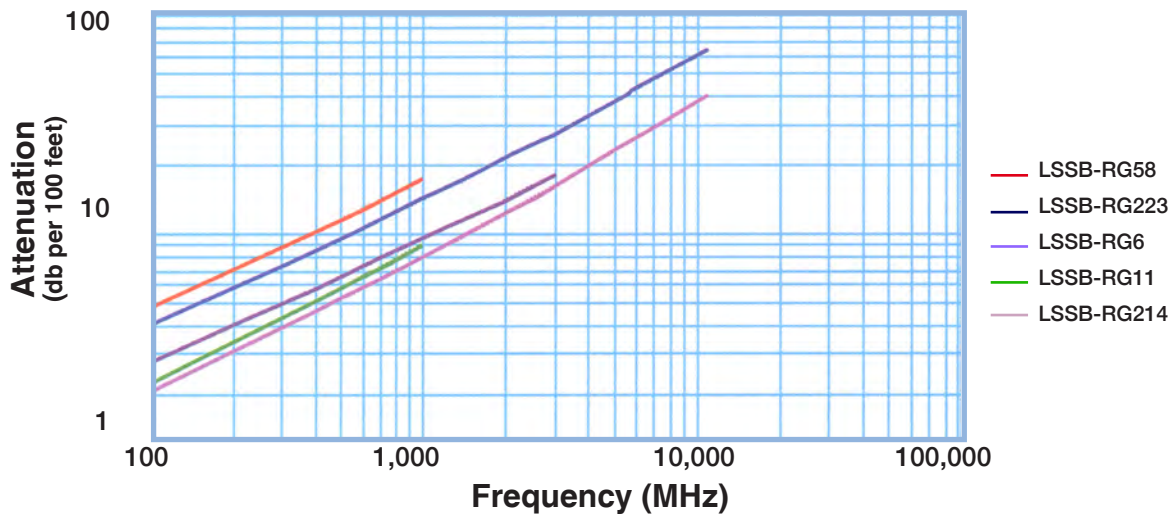
See M17 tables for additional sizes and armored versions

(800)-TMS-COAX • [www.timesmicrowave.com](http://www.timesmicrowave.com) • (203)-949-8400

Interconnect (M17/180 -/200, /210-/218)

- Fire Retardant / Low Smoke (non-halogen)
- Flexible For Easy Deployment / Routing

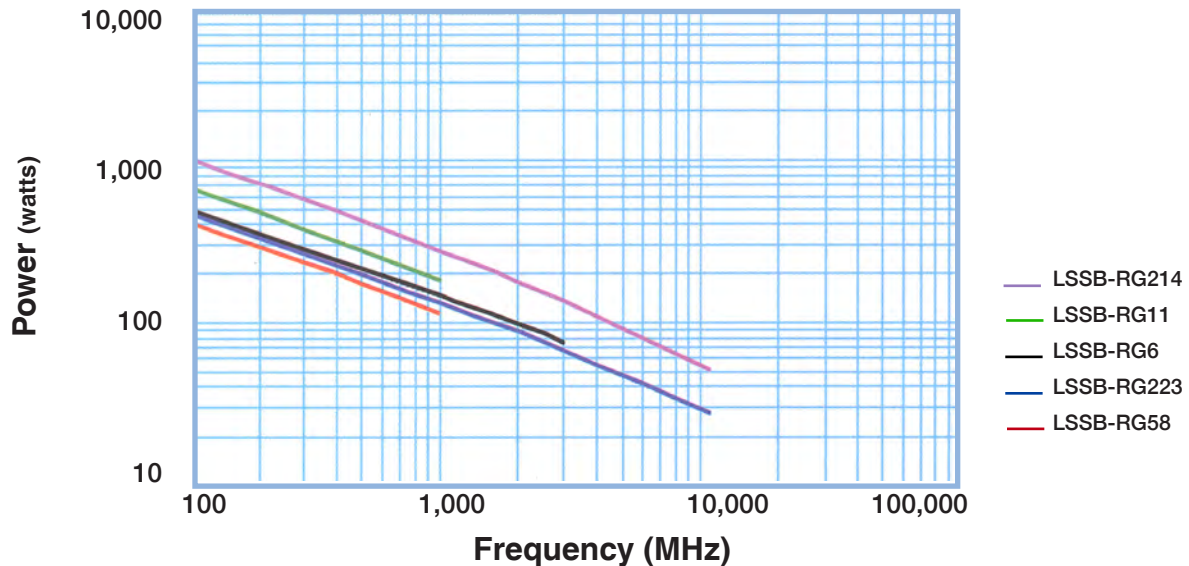
**Attenuation vs. Frequency (Typical)**



Frequency (MHz)	10	30	50	100	400	1,000	1,500	2,000	2,500	3,000	11,000	k1	k2
LSSB-RG58	1.4	2.5	3.3	4.6	10.2	17	-	-	-	-	-	0.444971	0.003370
LSSB-RG223	1.2	2.2	2.8	4.1	8.6	14	18	22	25	28	65	0.383488	0.002232
LSSB-RG6	0.8	1.5	1.9	2.7	5.7	9.6	12	14	16	18	-	0.262144	0.001264
LSSB-RG11	0.7	1.2	1.6	2.3	5.1	6.9	-	-	-	-	-	0.202970	0.002527
LSSB-RG214	0.6	1.1	1.4	2.1	4.6	7.9	10	12	14	16	41	0.191365	0.001895

Attenuation at Any Frequency = [ k1 x SQRT (Fmhz)] + [ k2 x Fmhz ]; dB per 100 feet

**Power Handling vs. Frequency (Typical)**



Frequency (MHz)	10	30	50	100	400	1,000	1,500	2,000	2,500	3,000	11,000
LSSB-RG214	3549	2003	1528	1051	481	276	213	177	152	134	51
LSSB-RG11	2430	1364	1037	709	318	179	-	-	-	-	-
LSSB-RG6	1678	957	736	513	244	146	116	97	85	76	-
LSSB-RG223	1558	887	680	472	223	132	103	87	75	67	27
LSSB-RG58	1412	800	612	423	196	114	-	-	-	-	-

Watts; Sea Level; Ambient +40C; VSWR 1:1