

TCom®-LS Low Loss Coaxial Cables

For applications that require repeated flexing and the need for excellent electrical performance, the TCOM-LS series offers a non-halogen, low smoke alternative to the more rigid MIL-C-28830 corrugated copper designs. Detailed data sheets are available upon request.

TMS Number	Conductor in (mm)	Dielectric in (mm)	Shields in (mm)	Jacket in (mm)	Weight lbs/foot (kg/m)	Impedance ohms	Capacitance pF/foot (pF/m)	Velocity (%)	Temperature Range F (C)	Frequency Range Attenuation (Typical)
TCOM-200-LS	BC	Foam PE	FSC:Intl:TC	XLPE + lvs	0.04	50 +/- 1	24.5	83	190	.05 to 10 GHz
	0.04	0.12	0.15	0.2					(-30 +100)	42 db/100' @ 10 GHz
	1.12	2.95	3.91	4.95	0.06		80.38			
TCOM-240-LS	BC	Foam PE	FSC:Intl:TC	XLPE + lvs	0.05	50 +/- 1	24.2	84	190	.05 to 10 GHz
	0.06	0.15	0.19	0.24					(-30 +100)	32 db/100' @ 10 GHz
	1.42	3.81	4.78	6.1	0.074		79.4			
TCOM-300-LS	BC	Foam PE	FSC:Intl:TC	XLPE + lvs	0.06	50 +/- 1	24.1	85	190	.05 to 10 GHz
	0.07	0.19	0.23	0.3					(-30 +100)	27 db/100' @ 10 GHz
	1.78	4.83	5.72	7.62	0.089		79.07			
TCOM-400-LS	BCCAI	Foam PE	FSC:Intl:TC	XLPE + lvs	0.08	50 +/- 1	23.9	85	190	.05 to 10 GHz
	0.11	0.29	0.33	0.41					(-30 +100)	17 db/100' @ 10 GHz
	2.74	7.24	8.38	10.29	0.119		78.42			
TCOM-500-LS	BCCAI	Foam PE	FSC:Intl:TC	XLPE + lvs	0.12	50 +/- 1	23.6	86	190	.05 to 10 GHz
	0.14	0.37	0.42	0.5					(-30 +100)	14 db/100' @ 10 GHz
	3.61	9.4	10.54	12.7	0.179		77.43			
TCOM-600-LS	BCCAI	Foam PE	FSC:Intl:TC	XLPE + lvs	0.16	50 +/- 1	23.4	87	190	.05 to 10 GHz
	0.18	0.455	0.5	0.59					(-30 +100)	12 db/100' @ 10 GHz
	4.47	11.56	12.7	14.99	0.238		76.78			

Attenuation vs. Frequency										
Frequency (MHz)	30	50	150	450	900	2,000	5,000	10,000	k1	k2
TCOM-200-LS	2.1	2.7	4.7	8.2	12	18	29	42	0.37753	0.00038
TCOM-240-LS	1.6	2.0	3.5	6.2	8.9	13	22	32	0.28480	0.00038
TCOM-300-LS	1.2	2.6	2.8	5.0	7.2	11	18	27	0.22580	0.00044
TCOM-400-LS	0.8	1.0	1.8	3.2	4.6	7.0	11.7	17	0.14387	0.00031
TCOM-500-LS	0.6	0.8	1.4	2.5	3.7	5.7	9.6	14	0.13640	0.00031
TCOM-600-LS	0.5	0.6	1.1	2.0	2.9	4.6	7.8	12	0.08888	0.00031

Attenuation at Any Frequency = [k1 x \sqrt{Fmhz}] + [k2 x Fmhz]; dB per 100 feet

Power Handling vs. Frequency									
Frequency (MHz)	30	50	150	450	900	2,000	5,000	10,000	
TCOM-600-LS	4680	3605	2044	1145	786	503	294	191	
TCOM-500-LS	3752	2893	1647	928	641	413	245	161	
TCOM-400-LS	2830	2184	1246	705	489	318	190	126	
TCOM-300-LS	1777	1371	783	443	307	200	120	80	
TCOM-240-LS	1268	979	561	319	222	145	88	59	
TCOM-200-LS	869	671	385	219	153	100	61	41	

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

CATV

The low smoke CATV cables are designed to provide a low loss shipboard entertainment system interconnect, yet meet the rigid shipboard requirements per MIL-C-17 "G". Detailed data sheets are available upon request.

TMS No	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight lbs/ft (kg/m)	Impedance (ohms)	Capacitance pF/ft (pF/m)	Velocity (%)	Temp. Range F (C)	Frequency Range Attenuation Typical
AA-6899 LSRG-11 Quad	BCCS	Foam PE	Quadshield	XLPE	0.073	75 +/- 3	16.5	82	-40 +185	.05 to 1.0 GHz
	0.06 (1.63)	0.29 (7.24)	0.35 (8.79)	0.43 (11.02)	(0.109)		(54.14)		(-40 +85)	4.5 dB/100' @ 1.0 GHz
AA6900 LSRG-6 Quad	BCCS	Foam PE	Quadshield	XLPE	0.033	75 +/- 3	16.5	82	-40 +185	.05 to 1.0 GHz
	0.04 (1.02)	0.180 (4.57)	0.24 (6.12)	0.297 (7.54)	(0.049)		(54.14)		(-40 +85)	6.0 dB/100' @ 1.0 GHz
AA-6901 LSRG-59 Quad	BCCS	Foam PE	Quadshield	XLPE	0.027	75 +/- 3	16.5	82	-40 +185	.05 to 1.0 GHz
	0.034 (0.86)	0.146 (3.71)	0.21 (5.26)	0.262 (6.65)	(0.040)		(54.14)		(-40 +85)	7.7 dB/100' @ 1.0 GHz

See page 9 for materials abbreviations.