

In addition to the MIL-C-17 qualified products listings, Times Microwave Systems has also been approved by NAVSEA for a wide range of low-smoke designs specified for shipboard use. The table below lists these NAVSEA designs.

NAVSEA Approved Low-Smoke Coaxial/Triaxial Cables

NAVSEA 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
6323052 50 Ohm	19/25 SPC 0.089 (2.26)	Foam PE 0.239 (6.07)	Double SPC 0.30 (7.62)	XLPE 0.415 (10.54)	0.12 (0.179)	50 +/- 2	24.5 (80.38)	80	-40 +185 (-40 +85)	.01 to 5.0 GHz 23 dB/100' @ 5.0 GHZ
6323054 75 Ohm	19/30 TPC 0.48 (1.22)	Foam PE 0.227 (5.77)	Double TPC 0.29 (7.37)	XLPE 0.420 (10.67)	0.132 (0.197)	75 +/- 3	19.0 (62.34)	76	-40 +185 (-40 +85)	.01 to 1.0 GHz 10 dB/100' @ 1.0 GHZ
6323056 50 Ohm Triax	19/32 TPC 0.040 (1.02)	Foam PE 0.120 (3.05)	TPC/Int/TPC 0.21 (5.18)	XLPE 0.283 (7.19)	0.065 (0.097)	50 +/- 2	29.0 (95.15)	70	-40 +185 (-40 +85)	.01 to 1.0 GHz 21 dB/100' @ 1.0 GHZ
6323059 75 Ohm Triax	19/36 TPC 0.025 (0.64)	Foam PE 0.133 (3.38)	TPC/Int/TPC 0.22 (5.66)	XLPE 0.325 (8.26)	0.08 (0.119)	75 +/- 3	19.0 (62.34)	70	-40 +185 (-40 +85)	.05 to 1.0 GHz 18.5 dB/100' @ 1.0 GHZ
6322493 75 Ohm Triax	19/30 TPC 0.048 (1.22)	Foam PE 0.227 (5.77)	TPC/Int/TPC 0.36 (9.02)	XLPE 0.465 (11.81)	0.15 (0.223)	75 +/- 3	18.5 (60.70)	76	-40 +185 (-40 +85)	.01 to 1.0 GHz 10 dB/100' @ 1.0 GHZ
6262065 50 Ohm Triax	7/20 SPC 0.089 (2.26)	Foam PE 0.239 (6.07)	SPC/Int/SPC 0.35 (8.86)	XLPE 0.450 (11.43)	0.155 (0.231)	50 +/- 2	27.5 (90.23)	77	-40 +185 (-40 +85)	.01 to 1.0 GHz 8.2 dB/100' @ 1.0 GHZ

Waterblocked, Low-Smoke Triaxial Cables

For applications that require watertightness in addition to the performance requirements of the LS/LT designs, Times is qualified to the M17/134 and M17/135 designs. These triaxial designs meet the 25 psi-6 hour watertightness test, as well as the 1000 psi-2 hour hydrostatic tests that are requirements of MIL-C-17.

MIL-C-17 Waterblocked Triaxial Cables

M17 Part No.	M17 QPL	TMS Part No.	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight lb/ft (kg/m)	Impedance ohms Vp (%)	Capacitance pF/ft (pF/m)	Max Oper. Voltage vrms	Temp. Range F (C)	M17 Test Frequency	Comments
M17/134-00003	17-952-85	AA-7557	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-XLPE-36SC 0.198 (5.03)	XLPE 0.245 (6.22)	0.050 (0.074)	50 +/-2 66	32.2 (105.6)	1,900	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-halogen Low smoke M17/134-00001
M17/134-00004	17-952-85	AA-7558	SC 0.033 (0.84)	PE 0.116 (2.95)	36SC-XLPE-36SC 0.198 (5.03)	XLPE 0.245 (6.22)	0.050 (0.074)	50 +/-2 66	32.2 (105.6)	1,900	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-halogen Low smoke M17/134-00002
M17/135-00005	17-202-88	AA-7559	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-XLPE-33SC 0.398 (10.11)	XLPE 0.500 (12.70)	0.185 (0.276)	50 +/-2 66	32.0 (105.0)	5,000	-22 +185 (-30 +85)	.05-3 GHz Swept	Waterblocked Non-halogen Low smoke M17/135-00003
M17/135-00006	17-202-88	AA-7560	SC 0.081 (2.06)	PE 0.285 (7.24)	33SC-XLPE-33SC 0.398 (10.11)	XLPE 0.500 (12.70)	0.185 (0.276)	50 +/-2 66	32.0 (105.0)	5,000	-22 +185 (-30 +85)	.05-3 GHz Swept	Non-Waterblocked Non-halogen Low smoke M17/135-00004

See page 9 for materials abbreviations.