

# “LFH” Coaxial & Triaxial Cables for Military Vessels

50, 75 &amp; 95 ohm



## Application

These cables are designed for use on computer and electronic equipment and are available in a variety of styles. All cables comply with requirements of BS2316 and DEF 61-12 Part 9, and incorporate black LFH (Limited Fire Hazard) outer sheath to DEF 61-12 Part 31 for reduced levels of smoke and toxic fumes in the event of a fire. For use on HM surface ships and vessels and other military equipment.

N.S.N. 6145-99-	Anixter Number A10DW-	URM Type	Inner Cond Material	Nominal Cond Stranding #/mm	Nom Cond Diam mm	Dielectric Material	Nominal Diameter Over Dielectric mm	Outer Cond Material	Nom Diam Over Outer Cond mm	Nom O/D mm	Approx Weight kg/km	Minimum Bend Radius (fixed bend) mm
<b>50 ohm coaxial</b>												
891-9849	891-9849	76	PCU	7/0.32	0.96	PE	2.95	PCWB	3.63	5.0	40	25
891-9850	891-9850	43	PCU	1/0.90	0.90	PE	2.95	PCWB	3.63	5.0	40	25
891-9861	891-9861	67	PCU	7/0.77	2.31	PE	7.25	PCWB	8.15	10.3	160	50
891-9862	891-9862	91	PCU	7/0.76	2.28	PE	7.25	2 x PCWB	8.69	11.0	210	55
891-9863	891-9863	112	SPCU	7/0.76	2.28	PE	7.25	2 x SPCWB	8.69	11.0	210	55
<b>75 ohm coaxial</b>												
891-9852	891-9852	70	PCU	7/0.19	0.57	PE	3.25	PCWB	3.93	5.8	60	30
891-9854	891-9854	117	PCU	7/0.212	0.636	PE	3.70	PCWB	4.38	6.0	60	30
891-9855	891-9855	90	CCS	1/0.60	0.60	PE	3.70	PCWB	4.38	6.0	66	30
891-9866	891-9866	57	PCU	1/1.15	1.15	PE	7.25	PCWB	8.15	10.3	150	50
<b>95 ohm coaxial</b>												
891-9858	891-9858	96	CCS	1/0.64	0.64	PE thread + tube	3.70	PCWB	4.38	6.0	42	30
<b>75 ohm triaxial</b>												
891-9856	891-9856	114	CCS	1/0.60	0.60	PE	3.70	2 x PCWB*	4.38(1) 6.06(2)	8.2	110	40
891-9857	891-9857	54	PCU	7/0.19	0.57	PE	3.25	2 x PCWB*	3.93(1) 6.11(2)	8.3	120	45

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Military Vessels

# “LFH” Coaxial & Triaxial Cables for Military Vessels

50, 75 & 95 ohm

PCU = plain copper.

SPCU = silver plated copper.

CCS = copper covered steel.

PCWB = plain copper wire braid.

SPCWb = silver plated copper wire braid.

(1) and (2) = diameter over inner and outer braids.

\* Inner and outer braids on triaxial cable are separated by LFH (Limited Fire Hazard) inter-sheath to DEF61-12 Part 31.

# Technical Information

## 50,75 & 95 ohm coaxial & 75 ohm triaxial and 100 ohm twinaxial “LFH” Cable

Anixter Number A10DW-	Nominal Characteristic Imp ohms	Maximum d.c. Cond Resistance @ 20°C ohms/km	Nom Cap pF/m	Nominal Velocity of Propagation %	Nominal Attenuation (dB/100m)						
					100 MHz	200 MHz	300 MHz	600 MHz	1000 MHz	3000 MHz	10000 MHz
<b>50 ohm coaxial</b>											
891-9849	50 +/- 2	31.8	100	66.6	15.5	22.2	27.4	39.8	52.7	-	-
891-9850	50 +/- 2	28.0	100	66.6	13.0	18.7	23.2	33.8	44.6	-	-
891-9861	50 +/- 2	5.56	100	66.6	6.8	9.9	12.5	18.6	25.2	-	-
891-9862	50 +/- 2	5.71	100	66.6	6.8	9.9	12.5	18.6	25.2	-	-
891-9863	50 +/- 2	5.56	100	66.6	6.8	9.9	12.5	18.6	25.2	50.0	138.0
<b>75 ohm coaxial</b>											
891-9852	75 +/- 3	92.0	67	66.6	15.2	21.8	27.0	39.1	51.7	-	-
891-9854	75 +/- 3	73.6	67	66.6	12.2	17.5	21.5	30.9	40.5	-	-
891-9855	75 +/- 3	221.0	67	66.6	11.2	16.1	20.0	29.3	39.1	-	-
891-9866	75 +/- 3	17.2	67	66.6	6.1	9.0	11.3	17.0	23.1	-	-
<b>95 ohm coaxial</b>											
891-9858	95 +/- 5	193.0	40	90	7.9	11.2	13.8	19.7	25.8	-	-
<b>75 ohm triaxial</b>											
891-9856	75 +/- 3	221.0	67	66.6	11.2	16.1	20.0	29.3	39.1	-	-
891-9857	75 +/- 3	92.0	67	66.6	15.2	21.8	27.0	39.1	51.7	-	-
<b>100 ohm twinaxial</b>											
891-9872	100 +/- 5	54.2	52	65.5	25.0	36.0	45.0	65.0	-	-	-

“-” indicates cables are not recommended for use at these frequencies.