Habia Cable

LFH/URM PE / HFS 107 XL -40°C/+80°C

Coax

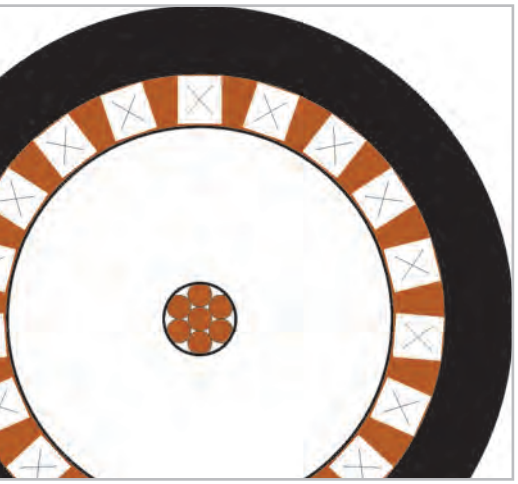
Flame retardant	IEC 60332-1-2
Smoke generation	IEC 61034-2
Toxicity	IEC 60754-2
Frequency range	Up to 2,5 GHz
Screening efficiency	(single braid) -40 dB (double braid) -70 dB
Velocity propagation	66 %

- Def Stan 61-12 Part 9: Tables 7c1, 7c2 and 8d

Construction

Conductor	Plain Copper (CU) Silver Plated Copper (SPC) Silver Plated High Strength Copper Alloy (HSA)	Dielectric	HFI 90
Shield	Braid of Copper (C)	Sheath	HFS 107 XL
Core colour	Natural	Sheath	Black
Marking	NNN-NNNN DESCRIPTION XX-HC-YEAR e.g. 891-9850 LFH/URM 43 SE-HC-2012 NNN-NNNN to be replaced with the last 7 digits of the Nato Stock Number XX to be replaced with country of manufacture		

Description	Construction						Electrical			MBR	Article Number
	conductor material	conductor Ø	dielectric Ø	shield/s Ø	sheath/s Ø	weight g/m	V rms V DC	imp. Ω	cap. pF/m	fixed flexing	NSN: (6145-99-)
LFH/URM 43 (50 Ohm coaxial)	CU 1x 0.90	0.90	2.95	3.70	5.00	40	5,200 21,000	50	100	25 80	61989-198-50 (891-9850)
LFH/URM 54 (75 Ohm triaxial)	CU 7x 0.19	0.57	3.25	in 3.95 out 6.10	in 5.40 out 8.30	120	3,600 14,000	75	67	45 140	61989-198-57 (891-9857)
LFH/URM 57 (75 Ohm coaxial)	CU 1x 1.15	1.15	7.25	8.15	10.30	150	10,500 42,000	75	67	50 170	61989-198-66 (891-9866)
LFH/URM 60 (75 Ohm coaxial)	CU 1x 1.15	1.15	7.25	in 7.95 out 8.65	11.00	185	10,500 42,000	75	67	55 180	61989-198-68 (891-9868)
LFH/URM 67 (50 Ohm coaxial)	CU 7x 0.75	2.25	7.25	8.15	10.30	160	13,000 40,000	50	100	50 170	61989-198-61 (891-9861)
LFH/URM 70 (75 Ohm coaxial)	CU 7x 0.19	0.57	3.25	3.95	5.80	60	3,600 14,000	75	67	30 100	61989-198-52 (891-9852)
LFH/URM 76 (50 Ohm coaxial)	CU 7x 0.32	0.96	2.95	3.65	5.00	40	5,200 21,000	50	100	25 80	61989-198-49 (891-9849)
LFH/URM 90 (75 Ohm coaxial)	CCS 1x 0.60	0.60	3.70	4.40	6.00	60	5,200 21,000	75	67	30 100	61989-198-55 (891-9855)
LFH/URM 112 (50 Ohm coaxial)	SPC 7x 0.75	2.25	7.25	in 7.95 out 8.65	10.80	210	13,000 40,000	50	100	55 180	61989-198-63 (891-9863)
LFH/URM 114 (75 Ohm triaxial)	CCS 1x 0.57	0.57	3.70	in 4.40 out 6.00	in 5.30 out 8.20	115	5,200 21,000	75	67	40 130	61989-198-56 (891-9856)
LFH/URM 115 (50 Ohm triaxial)	CU 1x 0.90	0.90	2.95	in 3.60 out 5.30	in 4.60 out 7.20	85	5,200 21,000	50	100	35 120	61989-198-51 (891-9851)
LFH/URM 117 (75 Ohm coaxial)	CU 7x 0.20	0.61	3.70	4.40	6.00	60	5,200 20,000	75	67	30 100	61989-198-54 (891-9854)



Electrical data (table)	Attenuation (dB/100m)						Power (W)					
	Frequency (MHz)						Frequency (MHz)					
	30	100	400	1,000	2,500	6,000	30	100	400	1,000	2,500	6,000
LFH/URM 43	8	14	29	47	77	-	1,150	630	293	185	117	-
LFH/URM 54	8	14	29	47	77	-	984	539	270	160	101	-
LFH/URM 57	3	6	12	21	35	-	2,324	1,273	637	365	231	-
LFH/URM 60	3	6	12	21	35	-	3,080	1,687	844	382	242	-
LFH/URM 67	4	7	15	24	39	-	3,644	1,996	998	550	348	-
LFH/URM 70	8	14	29	47	77	-	1,019	558	262	166	105	-
LFH/URM 76	8	15	31	50	81	-	1,004	550	275	163	103	-
LFH/URM 90	6	11	23	37	60	-	1,371	751	376	219	139	-
LFH/URM 112	4	7	15	24	39	-	3,288	1,801	901	413	261	-
LFH/URM 114	7	13	27	43	71	-	1,294	709	355	206	130	-
LFH/URM 115	7	13	27	43	71	-	1,092	598	299	176	111	-
LFH/URM 117	7	13	27	43	71	-	1,161	636	318	188	119	-

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Application

Seaguard[DS] LFH/URM Coaxial cables are designed, tested and approved to the UK Defence Standard 61-12 Part 9: Cables, Radio Frequency Including Limited Fire Hazard (LFH) Variants.

In particular, Habia Cable has focussed on Group 7 (General purpose polyethylene dielectric, LFH sheath) and Group 8 (Close tolerance polyethylene dielectic, LFH sheath),

Small and Medium sized coaxials to provide a Low Smoke Zero Halogen (LSZH) and flame retardant solution for our customers.

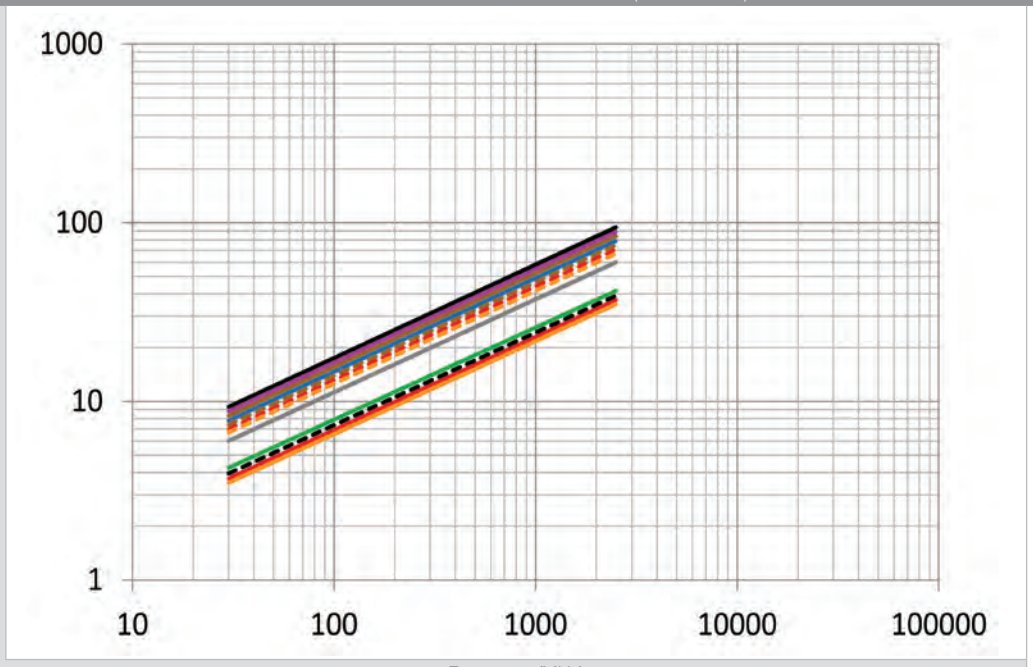
In addition to the cables listed here, it should also be noted that Def Stan 61-12 Part 9 includes a list of Mutually Interchangable Cables. Please see list.

Mutually interchangeable cables

URM 106	RG 302 (M)
URM 108	RG 303 (M)
URM 109	RG 316 (M)
URM 110	RG 178 (M)

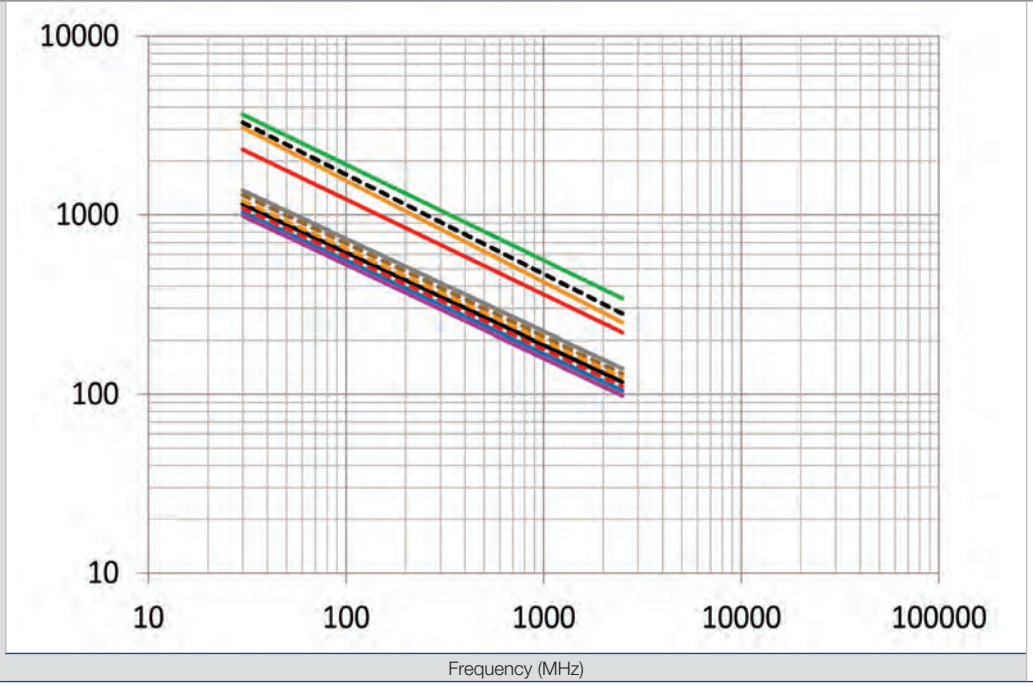
Electrical data (graph)

Attenuation (nom. at 20°C)



Black	LFH/URM 43
Brown	LFH/URM 54
Red	LFH/URM 57
Orange	LFH/URM 60
Green	LFH/URM 67
Blue	LFH/URM 70
Violet	LFH/URM 76
Grey	LFH/URM 90
Black -	LFH/URM 112
Brown -	LFH/URM 114
Red -	LFH/URM 115
Orange -	LFH/URM 117

Power rating (max. at 20°C, SWR 1.0 and sea level)



Black	LFH/URM 43
Brown	LFH/URM 54
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Violet	LFH/URM 76
Grey	LFH/URM 90
Black -	LFH/URM 112
Brown -	LFH/URM 114
Red -	LFH/URM 115
Orange -	LFH/URM 117