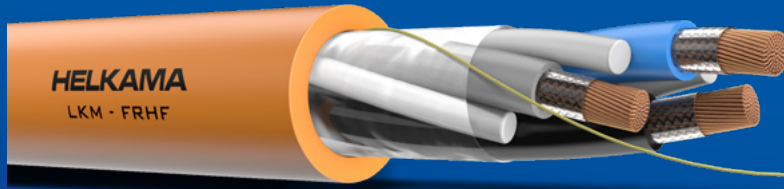


LKM-FRHF

0.6/1 kV

Fire-resistant unarmoured power and control cable



- Flame-retardant • Halogen-free • Low smoke emission • Oil resistant (SHF2 only)

CONDUCTOR	Stranded copper conductor 1.0-10 mm ² , IEC 60228 Class 2 Stranded copper conductor 16-300 mm ² , IEC 60228 Class 5
INSULATION	Mica tape XLPE
CABLING	Cores twisted together, with optional fillers or dummy cores to obtain symmetrical and round construction, covered by separator tape
RIP CORD	For conductors ≥ 16 mm ²
SHEATH	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request
REFERENCE STANDARD	IEC 60092-353

APPLICATION

Fire-resistant unarmoured power and control cable. For fixed installation in most areas, and on open deck in ships and offshore units. If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

PHYSICAL PROPERTIES:

CORE IDENTIFICATION	Colour code for 1...4 core cables, number code for 5...37 core cables
MARINE TYPE APPROVALS	ABS, BV, CCS, CRS, DNV, KR, LR, RINA

MAIN CHARACTERISTICS:

RATED VOLTAGE	AC 0.6/1 kV (1.2 kV) DC 0.9/1.5 kV (if voltage to earth does not exceed 0.9 kV)
FIRE PERFORMANCE	IEC 60332-1-2 IEC 60332-3-22
FIRE-RESISTANT	IEC 60331-1 / IEC 60331-2 (180 min)
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
OIL RESISTANCE (SHF2 only)	IEC 60811-404 conditions according to 60092-360/SHF2
MIN. INSTALLATION TEMPERATURE	-15 °C
OPERATING TEMPERATURE	-40 - 80 °C fixed installation
MAXIMUM CONDUCTOR TEMPERATURE	90 °C

Subject to change without prior notice. See latest update on our webpage.

© 2023 Helkama Bica Oy. All rights reserved.

LKM-FRHF 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radius mm (fixed)
28275	-	1 x 1.0	5.5	40	18	30
28100	-	1 x 1.5	5.5	45	23	35
28102	-	1 x 2.5	6.0	60	30	35
28104	-	1 x 4	6.5	80	40	40
28106	-	1 x 6	7.5	105	52	45
28108	-	1 x 10	8.5	150	72	50
29326	-	1 x 16 cl5	9.5	200	94	40
29327	-	1 x 25 cl5	11.5	305	123	50
29328	-	1 x 35 cl5	12.5	400	153	55
29329	-	1 x 50 cl5	14.5	555	196	60
29330	-	1 x 70 cl5	16.5	765	240	70
29331	-	1 x 95 cl5	18.5	985	284	75
29332	-	1 x 120 cl5	20.5	1235	331	85
29333	-	1 x 150 cl5	23.5	1555	381	95
29334	-	1 x 185 cl5	25.5	1880	429	155
29335	-	1 x 240 cl5	28.5	2495	507	175
29336	-	1 x 300 cl5	32.0	3075	582	195
28276	-	2 x 1.0	8.5	75	15	50
28132	-	2 x 1.5	9.0	90	20	55
28134	-	2 x 2.5	10.5	125	26	60
28136	-	2 x 4	11.5	170	34	70
28138	-	2 x 6	12.5	260	44	75
28140	-	2 x 10	15.0	385	61	90
29343	-	2 x 16 cl5	17.5	545	80	70
29344	-	2 x 25 cl5	21.5	825	105	90
29345	-	2 x 35 cl5	23.5	1090	130	95
29346	-	2 x 50 cl5	27.5	1495	167	165
29347	-	2 x 70 cl5	31.5	2050	204	190
29348	-	2 x 95 cl5	35.5	2705	241	215
28278	28279	3 x 1.0	8.5	90	13	50
28162	28163	3 x 1.5	9.5	115	16	60
28164	28165	3 x 2.5	11.0	160	21	65
28166	28167	3 x 4	12.0	220	28	75
28168	28169	3 x 6	13.5	330	36	80
28170	28171	3 x 10	16.0	490	50	95
29366	29367	3 x 16 cl5	18.5	690	66	75
29368	29369	3 x 25 cl5	23.0	1060	86	95
29370	29371	3 x 35 cl5	25.0	1380	107	155
29372	29373	3 x 50 cl5	29.5	1930	137	180
29374	29375	3 x 70 cl5	34.0	2695	168	205
29376	29377	3 x 95 cl5	38.0	3475	199	230
29378	29379	3 x 120 cl5	42.5	4405	232	255
29380	29381	3 x 150 cl5	48.5	5525	267	290
29382	29383	3 x 185 cl5	53.5	6775	300	325
29384	29385	3 x 240 cl5	60.5	8935	355	365
28280	28281	4 x 1.0	9.5	115	13	55
28182	28183	4 x 1.5	11.0	150	16	65
28184	28185	4 x 2.5	12.0	200	21	70

Standard length 1000 m

G-type with yellow/green earth conductor and G-marking on sheath e.g. 3G1.5

SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

Table continues on next page

LKM-FRHF 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radius mm (fixed)
28186	28187	4 x 4	13.5	280	28	80
28188	28189	4 x 6	15.0	410	36	90
28190	28191	4 x 10	17.5	620	50	105
29400	29401	4 x 16 cl5	20.5	870	66	85
29402	29403	4 x 25 cl5	25.5	1345	86	155
29404	29405	4 x 35 cl5	28.0	1770	107	170
29406	29407	4 x 50 cl5	33.0	2485	137	200
29408	29409	4 x 70 cl5	38.0	3425	168	230
29410	29411	4 x 95 cl5	42.5	4455	199	255
28282	28283	5 x 1.0	11.0	150	10	65
28212	28213	5 x 1.5	12.0	190	13	70
28214	28215	5 x 2.5	13.0	250	17	80
28501	28502	5 x 4	15.0	350	23	90
28503	28504	5 x 6	16.5	520	30	100
28505	28506	5 x 10	19.5	765	42	115
29434	29435	5 x 16 cl5	22.5	1065	55	95
29436	29437	5 x 25 cl5	28.5	1670	71	175
29438	29439	5 x 35 cl5	31.0	2210	89	185
29440	29441	5 x 50 cl5	36.5	3080	114	220
29442	29443	5 x 70 cl5	42.5	4305	139	255
28284	28285	7 x 1.0	11.5	180	9	70
28286	28287	10 x 1.0	15.0	265	8	90
28288	28289	12 x 1.0	15.5	290	8	90
28290	28291	14 x 1.0	16.0	330	7	95
28292	28293	16 x 1.0	17.0	380	7	105
28294	28295	19 x 1.0	18.0	430	7	110
28296	28297	24 x 1.0	21.5	545	6	130
28298	28299	27 x 1.0	22.0	600	6	130
28300	28301	37 x 1.0	24.5	800	5	150
28216	28217	7 x 1.5	13.0	230	12	75
28240	28241	10 x 1.5	16.5	330	11	100
28220	28221	12 x 1.5	17.5	380	10	105
28244	28245	14 x 1.5	18.0	430	10	110
28248	28249	16 x 1.5	19.0	485	9	115
28224	28225	19 x 1.5	20.5	565	9	120
28228	28229	24 x 1.5	24.0	725	8	145
28232	28233	27 x 1.5	24.5	795	8	150
28234	28235	37 x 1.5	28.0	1050	7	165
28218	28219	7 x 2.5	14.5	315	16	85
28242	28243	10 x 2.5	18.5	450	14	110
28222	28223	12 x 2.5	19.0	515	13	115
28246	28247	14 x 2.5	20.5	595	13	120
28250	28251	16 x 2.5	21.5	670	12	130
28226	28227	19 x 2.5	22.5	770	11	135
28230	28231	24 x 2.5	27.0	1000	10	160
28236	28237	27 x 2.5	27.5	1100	10	165
28238	28239	37 x 2.5	31.0	1460	9	185

Standard length 1000 m

G-type with yellow/green earth conductor and G-marking on sheath e.g. 3G1.5

SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

Other sizes on request.