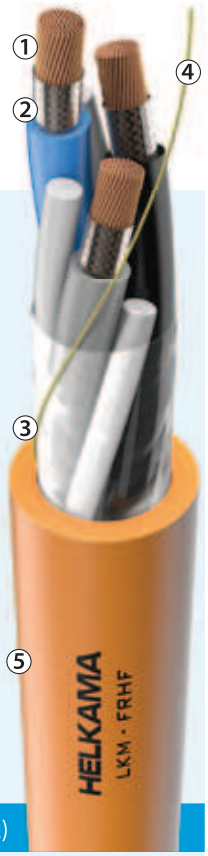
LKM-FRHF

Fire-resistant unarmoured power and control cable 0,6/1kV



DESIGN:		STANDARDS: IEC 60092-353, design
1. Conductor	- stranded copper conductor 1,0–10mm² - stranded copper conductor 16–300mm² - tinned stranded copper conductor on request	IEC 60228, class 2 IEC 60228, class 5 (Flex)
2. Insulation	- Mica tape - XLPE plastic	 IEC 60092-360
3. Cabling / bedding	- cabling with optional fillers or dummy cores to obtain symmetrical and round construction	
4. Rip cord	- rip cord for conductors from 16mm²	
5. Sheath	- polyolefine plastic, SHF1, standard colour orange - on request thermosetting polyolefine, SHF2, standard colour black - other colours on request	IEC 60092-360

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

Application: For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

Main characteristics

Rated voltage	**AC 0,6/1kV (1,2kV)** **DC 0,9/1,5kV** (if voltage to earth does not exceed 0,9kV)
Flame-retardant	**IEC 60332-1-2** -test for single insulated wire and cable **IEC 60332-3-22** -test for bunched wires and cables, category A
Fire-resistant	**IEC 60331-1 or IEC 60331-2**
Halogen-free	**IEC 60754** series
Smoke emission	**IEC 61034** series
Oil resistance (only SHF2)	**IEC 60811-404** conditions according to 60092-360/SHF2
Temperature rating:	Maximum conductor temperature **+ 90 °C** Fixed installation **- 40 °C** to **+ 80 °C** Minimum recommended installation temperature **- 15 °C**

For details see general information section

LKM-FRHF 0,6/1kV Part number Normal	G-type	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
28275	–	1x1,0	5,5	40	18	30
28100	–	1x1,5	5,5	45	23	35
28102	–	1x2,5	6,0	60	30	35
28104	–	1x4	6,5	80	40	40
28106	–	1x6	7,5	105	52	45
28108	–	1x10	8,5	150	72	50
29326	–	1x16 Flex	9,5	200	94	40
29327	–	1x25 Flex	11,5	305	123	50
29328	–	1x35 Flex	12,5	400	153	55
29329	–	1x50 Flex	14,5	555	196	60
29330	–	1x70 Flex	16,5	765	240	70
29331	–	1x95 Flex	18,5	985	284	75
29332	–	1x120 Flex	20,5	1235	331	85
29333	–	1x150 Flex	23,5	1555	381	95
29334	–	1x185 Flex	25,5	1880	429	155
29335	–	1x240 Flex	28,5	2495	507	175
29336	–	1x300 Flex	32,0	3075	582	195
28276	–	2x1,0	8,5	75	15	50
28132	–	2x1,5	9,0	90	20	55
28134	–	2x2,5	10,5	125	26	60
28136	–	2x4	11,5	170	34	70
28138	–	2x6	12,5	260	44	75
28140	–	2x10	15,0	385	61	90
29343	–	2x16 Flex	17,5	545	80	70
29344	–	2x25 Flex	21,5	825	105	90
29345	–	2x35 Flex	23,5	1090	130	95
29346	–	2x50 Flex	27,5	1495	167	165
29347	–	2x70 Flex	31,5	2050	204	190
29348	–	2x95 Flex	35,5	2705	241	215
28278	28279	3x1,0	8,5	90	13	50
28162	28163	3x1,5	9,5	115	16	60
28164	28165	3x2,5	11,0	160	21	65
28166	28167	3x4	12,0	220	28	75
28168	28169	3x6	13,5	330	36	80
28170	28171	3x10	16,0	490	50	95
29366	29367	3x16 Flex	18,5	690	66	75
29368	29369	3x25 Flex	23,0	1060	86	95
29370	29371	3x35 Flex	25,0	1380	107	155
29372	29373	3x50 Flex	29,5	1930	137	180
29374	29375	3x70 Flex	34,0	2695	168	205
29376	29377	3x95 Flex	38,0	3475	199	230
29378	29379	3x120 Flex	42,5	4405	232	255
29380	29381	3x150 Flex	48,5	5525	267	290
29382	29383	3x185 Flex	53,5	6775	300	325
29384	29385	3x240 Flex	60,5	8935	355	365

G-type is with yellow/green earth conductor and marking on sheath is, for example, 3G1,5

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx

Table continues on next page >

LKM-FRHF 0,6/1kV Part number Normal	G-type	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
28280	28281	4x1,0	9,5	115	13	55
28182	28183	4x1,5	11,0	150	16	65
28184	28185	4x2,5	12,0	200	21	70
28186	28187	4x4	13,5	280	28	80
28188	28189	4x6	15,0	410	36	90
28190	28191	4x10	17,5	620	50	105
29400	29401	4x16 Flex	20,5	870	66	85
29402	29403	4x25 Flex	25,5	1345	86	155
29404	29405	4x35 Flex	28,0	1770	107	170
29406	29407	4x50 Flex	33,0	2485	137	200
29408	29409	4x70 Flex	38,0	3425	168	230
29410	29411	4x95 Flex	42,5	4455	199	255
28282	28283	5x1,0	11,0	150	10	65
28212	28213	5x1,5	12,0	190	13	70
28214	28215	5x2,5	13,0	250	17	80
28501	28502	5x4	15,0	350	23	90
28503	28504	5x6	16,5	520	30	100
28505	28506	5x10	19,5	765	42	115
29434	29435	5x16 Flex	22,5	1065	55	95
29436	29437	5x25 Flex	28,5	1670	71	175
29438	29439	5x35 Flex	31,0	2210	89	185
29440	29441	5x50 Flex	36,5	3080	114	220
29442	29443	5x70 Flex	42,5	4305	139	255
28284	28285	7x1,0	11,5	180	9	70
28286	28287	10x1,0	15,0	265	8	90
28288	28289	12x1,0	15,5	290	8	90
28290	28291	14x1,0	16,0	330	7	95
28292	28293	16x1,0	17,0	380	7	105
28294	28295	19x1,0	18,0	430	7	110
28296	28297	24x1,0	21,5	545	6	130
28298	28299	27x1,0	22,0	600	6	130
28300	28301	37x1,0	24,5	800	5	150
28216	28217	7x1,5	13,0	230	12	75
28240	28241	10x1,5	16,5	330	11	100
28220	28221	12x1,5	17,5	380	10	105
28244	28245	14x1,5	18,0	430	10	110
28248	28249	16x1,5	19,0	485	9	115
28224	28225	19x1,5	20,5	565	9	120
28228	28229	24x1,5	24,0	725	8	145
28232	28233	27x1,5	24,5	795	8	150
28234	28235	37x1,5	28,0	1050	7	165

G-type is with yellow/green earth conductor and marking on sheath is, for example, 3G1,5

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx

Table continues on next page >

LKM-FRHF 0,6/1kV Part number Normal	G-type	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
28218	28219	7x2,5	14,5	315	16	85
28242	28243	10x2,5	18,5	450	14	110
28222	28223	12x2,5	19,0	515	13	115
28246	28247	14x2,5	20,5	595	13	120
28250	28251	16x2,5	21,5	670	12	130
28226	28227	19x2,5	22,5	770	11	135
28230	28231	24x2,5	27,0	1000	10	160
28236	28237	27x2,5	27,5	1100	10	165
28238	28239	37x2,5	31,0	1460	9	185

Other sizes on request.

G-type is with yellow/green earth conductor and marking on sheath is, for example, 3G1,5

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx