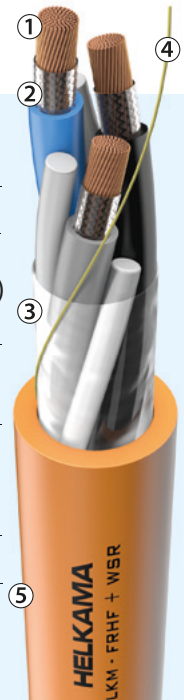


LKM-FRHF+WSR/WJR

Fire Resistant + Water Spray Resistant and/or Water Jet Resistant, unarmoured power and control cable 0,6/1kV

Cable types: LKM-FRHF+WSR (diameter ≤ 20 mm)
LKM-FRHF+WJR (diameter > 20 mm)

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



● Halogen-free ● Flame-retardant ● Low smoke emission ● Fire-resistant ● Water Spray and/or Water Jet Resistant

Application: For fixed installation in most areas and on open deck in ships and offshore units. Especially intended to ensure the availability of all critical transportation-, comfort- and safety systems, i.e. to meet the concepts of; **Orderly Evacuation** (3 hours burning time) and **Safe Return to Port** (Fire test with simultaneous Water Spray / Water Jet + mechanical shocks) to simulate the firefighting conditions.

If the cable is exposed to direct sunlight, we recommend cable with black outer sheath or a protective covering.

Main characteristics

Rated voltage	AC 0,6/1kV (1,2kV) DC 0,9/1,5kV (if voltage to earth does not exceed 0,9kV)
Halogen-free	IEC 60754 series
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
Smoke emission	IEC 61034 series
Fire- and Water Spray Resistant	IEC 60331-2 (180 min test) + EN 50200:2015 Annex E (diameter ≤ 20 mm)
Fire- and Water Jet Resistant	IEC 60331-1 (180 min test) + BS 8491:2008 (diameter > 20 mm)
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2

Recommended minimum bending radius (fixed installation): 4 x outer diameter of the cable

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+WSR/WJR 0,6/1kV Part number		Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
Normal	G-type					
628275	-	1x1,0	5,5	40	18	35
628100	-	1x1,5	6,0	50	23	35
628102	-	1x2,5	6,5	60	30	40
628104	-	1x4	7,0	80	40	40
628106	-	1x6	7,5	105	52	45
628108	-	1x10	8,5	155	72	50
629326	-	1x16 Flex	9,5	210	94	60
629327	-	1x25 Flex	12,0	320	123	70
629328	-	1x35 Flex	13,0	415	153	75
629329	-	1x50 Flex	15,0	570	196	90
629330	-	1x70 Flex	17,0	790	240	100
629331	-	1x95 Flex	18,5	1010	284	110
629332	-	1x120 Flex	20,5	1270	331	125
629333	-	1x150 Flex	23,5	1600	381	140
629334	-	1x185 Flex	26,0	1930	429	155
629335	-	1x240 Flex	29,0	2530	507	175
629336	-	1x300 Flex	32,0	3145	582	195
628276	-	2x1,0	8,5	105	15	50
628132	-	2x1,5	9,5	125	20	55
628134	-	2x2,5	11,0	160	26	65
628136	-	2x4	12,0	220	34	70
628138	-	2x6	13,0	320	44	80
628140	-	2x10	15,5	470	61	95
629343	-	2x16 Flex	18,0	625	80	105
629344	-	2x25 Flex	22,0	970	105	130
629345	-	2x35 Flex	24,0	1240	130	145
629346	-	2x50 Flex	27,5	1690	167	165
629347	-	2x70 Flex	32,0	2345	204	190
629348	-	2x95 Flex	35,5	3010	241	215
628278	628279	3x1,0	9,5	100	13	55
628162	628163	3x1,5	10,0	125	16	60
628164	628165	3x2,5	11,5	170	21	70
628166	628167	3x4	12,5	230	28	75
628168	628169	3x6	14,0	350	36	85
628170	628171	3x10	16,5	510	50	100
629366	629367	3x16 Flex	19,0	770	66	115
629368	629369	3x25 Flex	23,5	1170	86	140
629370	629371	3x35 Flex	25,5	1520	107	155
629372	629373	3x50 Flex	30,0	2115	137	180
629374	629375	3x70 Flex	34,5	2925	168	205
629376	629377	3x95 Flex	38,0	3755	199	230
629378	629379	3x120 Flex	43,0	4740	232	255
629380	629381	3x150 Flex	48,5	5950	267	290
629382	629383	3x185 Flex	54,0	7265	300	325
629384	629385	3x240 Flex	60,5	9565	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+WSR/WJR 0,6/1kV Part number		Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
Normal	G-type					
628280	628281	4x1,0	10,0	125	13	60
628182	628183	4x1,5	11,5	165	16	70
628184	628185	4x2,5	12,5	210	21	75
628186	628187	4x4	14,0	295	28	85
628188	628189	4x6	15,5	430	36	95
628190	628191	4x10	18,5	640	50	110
629400	629401	4x16 Flex	21,0	940	66	125
629402	629403	4x25 Flex	26,0	1445	86	155
629404	629405	4x35 Flex	28,5	1880	107	170
629406	629407	4x50 Flex	33,5	2640	137	200
629408	629409	4x70 Flex	38,5	3645	168	230
629410	629411	4x95 Flex	43,0	4705	199	255
628282	628283	5x1,0	11,5	165	10	70
628212	628213	5x1,5	12,5	205	13	75
628214	628215	5x2,5	13,5	265	17	80
628501	628502	5x4	15,5	380	23	90
628503	628504	5x6	17,0	545	30	105
628505	628506	5x10	20,0	805	42	120
629434	629435	5x16 Flex	23,0	1120	55	140
629436	629437	5x25 Flex	29,0	1740	71	175
629438	629439	5x35 Flex	31,5	2270	89	190
629440	629441	5x50 Flex	37,0	3190	114	220
629442	629443	5x70 Flex	43,0	4455	139	255
628284	628285	7x1,0	12,5	200	9	75
628286	628287	10x1,0	16,0	285	8	95
628288	628289	12x1,0	16,5	325	8	100
628290	628291	14x1,0	17,0	365	7	105
628292	628293	16x1,0	18,5	425	7	110
628294	628295	19x1,0	19,5	480	7	115
628296	628297	24x1,0	22,5	605	6	135
628298	628299	27x1,0	23,5	665	6	140
628563	-	30x1,0	24,0	725	6	145
628300	628301	37x1,0	26,5	890	5	160
628216	628217	7x1,5	13,5	250	12	80
628240	628241	10x1,5	17,5	365	11	105
628220	628221	12x1,5	18,5	410	10	110
628244	628245	14x1,5	19,0	465	10	115
628248	628249	16x1,5	20,0	535	9	120
628224	628225	19x1,5	21,5	610	9	130
628228	628229	24x1,5	25,5	785	8	155
628232	628233	27x1,5	26,0	860	8	155
-	-	30x1,5	27,0	940	7	165
628234	628235	37x1,5	29,5	1140	7	175

Table continues on next page >

LKM-FRHF+WSR/WJR 0,6/1kV Part number		Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
Normal	G-type					
628218	628219	7x2,5	15,0	335	16	90
628242	628243	10x2,5	19,5	490	14	115
628222	628223	12x2,5	20,0	550	13	120
628246	628247	14x2,5	21,5	635	13	130
628250	628251	16x2,5	22,5	725	12	135
628226	628227	19x2,5	24,0	820	11	145
628230	628231	24x2,5	28,5	1070	10	170
628236	628237	27x2,5	29,0	1175	10	175
-	-	30x2,5	30,0	1290	10	180
628238	628239	37x2,5	33,0	1565	9	195

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



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