

LKM-FRHF+WSR/WJR

0.6/1 kV

Fire-resistant + Water Spray Resistant and/or Water Jet Resistant unarmoured power and control cable



• FLAME-RETARDANT • FIRE-RESISTANT • HALOGEN-FREE • LOW SMOKE EMISSION • WATER SPRAY and/or WATER JET RESISTANT

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	Special grade Mica tape XLPE
CABLING	Cabling, cores twisted together, fillers or dummy cores included in select sizes based on product specifications to obtain symmetrical and round construction, covered by separator tape
RIP CORD	For conductors ≥ 16 mm ²
SHEATH	Polyolefine SHF1, IEC 60092-360 Cross-linked polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request
REFERENCE STANDARD	IEC 60092-353

APPLICATION

Fire-resistant + Water Spray Resistant and/or Water Jet Resistant unarmoured power and control cable. For fixed installation in most areas, and on open deck in ships and offshore units. Especially intended to ensure availability of all critical transportation-, comfort- and safety systems, i.e. to meet the concepts of; **Orderly Evacuation** (3h burning time) and **Safe Return to Port** (Fire test with simultaneous Water Spray / Water Jet + mechanical shocks) to simulate firefighting conditions. If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

PHYSICAL PROPERTIES

CABLE TYPES	Cable $\varnothing \leq 20$ mm LKM-FRHF+WSR Cable $\varnothing > 20$ mm LKM-FRHF+WJR
CORE IDENTIFICATION	Colour code for 1...4 core cables, number code for 5...37 core cables
MARINE TYPE APPROVALS	DNV, 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
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
FIRE- AND WATER SPRAY RESISTANT (+WSR)	IEC 60331-2 + EN 50200 Annex E (180 min)
FIRE- AND WATER JET RESISTANT (+WJR)	IEC 60331-1 + BS 8491 (180 min)
OIL RESISTANCE (SHF2 only)	IEC 60811-404 conditions acc. to 60092-360/SHF2
MIN. INSTALLATION TEMPERATURE	-15 °C
OPERATING TEMPERATURE	-40 - 80 °C fixed installation
MAX. CONDUCTOR TEMPERATURE	90 °C

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

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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)
628275	-	1 x 1.0	5.5	40	18	35
628100	-	1 x 1.5	6.0	50	23	35
628102	-	1 x 2.5	6.5	60	30	40
628104	-	1 x 4	7.0	80	40	40
628106	-	1 x 6	7.5	105	52	45
628108	-	1 x 10	8.5	155	72	50
629326	-	1 x 16 cl5	9.5	210	94	60
629327	-	1 x 25 cl5	12.0	320	123	70
629328	-	1 x 35 cl5	13.0	415	153	75
629329	-	1 x 50 cl5	15.0	570	196	90
629330	-	1 x 70 cl5	17.0	790	240	100
629331	-	1 x 95 cl5	18.5	1010	284	110
629332	-	1 x 120 cl5	20.5	1270	331	125
629333	-	1 x 150 cl5	23.5	1600	381	140
629334	-	1 x 185 cl5	26.0	1930	429	155
629335	-	1 x 240 cl5	29.0	2530	507	175
629336	-	1 x 300 cl5	32.0	3145	582	195
628276	-	2 x 1.0	8.5	105	15	50
628132	-	2 x 1.5	9.5	125	20	55
628134	-	2 x 2.5	11.0	160	26	65
628136	-	2 x 4	12.0	220	34	70
628138	-	2 x 6	13.0	320	44	80
628140	-	2 x 10	15.5	470	61	95
629343	-	2 x 16 cl5	18.0	625	80	105
629344	-	2 x 25 cl5	22.0	970	105	130
629345	-	2 x 35 cl5	24.0	1240	130	145
629346	-	2 x 50 cl5	27.5	1690	167	165
629347	-	2 x 70 cl5	32.0	2345	204	190
629348	-	2 x 95 cl5	35.5	3010	241	215
628278	628279	3 x 1.0	9.5	100	13	55
628162	628163	3 x 1.5	10.0	125	16	60
628164	628165	3 x 2.5	11.5	170	21	70
628166	628167	3 x 4	12.5	230	28	75
628168	628169	3 x 6	14.0	350	36	85
628170	628171	3 x 10	16.5	510	50	100
629366	629367	3 x 16 cl5	19.0	770	66	115
629368	629369	3 x 25 cl5	23.5	1170	86	140
629370	629371	3 x 35 cl5	25.5	1520	107	155
629372	629373	3 x 50 cl5	30.0	2115	137	180
629374	629375	3 x 70 cl5	34.5	2925	168	205
629376	629377	3 x 95 cl5	38.0	3755	199	230
629378	629379	3 x 120 cl5	43.0	4740	232	255
629380	629381	3 x 150 cl5	48.5	5950	267	290
629382	629383	3 x 185 cl5	54.0	7265	300	325
629384	629385	3 x 240 cl5	60.5	9565	355	365
628280	628281	4 x 1.0	10.0	125	13	60
628182	628183	4 x 1.5	11.5	165	16	70
628184	628185	4 x 2.5	12.5	210	21	75
628186	628187	4 x 4	14.0	295	28	85
628188	628189	4 x 6	15.5	430	36	95
628190	628191	4 x 10	18.5	640	50	110

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

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0.6/1 kV CABLES

LKM-FRHF+WSR/WJR 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)
629400	629401	4 x 16 cl5	21.0	940	66	125
629402	629403	4 x 25 cl5	26.0	1445	86	155
629404	629405	4 x 35 cl5	28.5	1880	107	170
629406	629407	4 x 50 cl5	33.5	2640	137	200
629408	629409	4 x 70 cl5	38.5	3645	168	230
629410	629411	4 x 95 cl5	43.0	4705	199	255
628282	628283	5 x 1.0	11.5	165	10	70
628212	628213	5 x 1.5	12.5	205	13	75
628214	628215	5 x 2.5	13.5	265	17	80
628501	628502	5 x 4	15.5	380	23	90
628503	628504	5 x 6	17.0	545	30	105
628505	628506	5 x 10	20.0	805	42	120
629434	629435	5 x 16 cl5	23.0	1120	55	140
629436	629437	5 x 25 cl5	29.0	1740	71	175
629438	629439	5 x 35 cl5	31.5	2270	89	190
629440	629441	5 x 50 cl5	37.0	3190	114	220
629442	629443	5 x 70 cl5	43.0	4455	139	255
628284	628285	7 x 1.0	12.5	200	9	75
628286	628287	10 x 1.0	16.0	285	8	95
628288	628289	12 x 1.0	16.5	325	8	100
628290	628291	14 x 1.0	17.0	365	7	105
628292	628293	16 x 1.0	18.5	425	7	110
628294	628295	19 x 1.0	19.5	480	7	115
628296	628297	24 x 1.0	22.5	605	6	135
628298	628299	27 x 1.0	23.5	665	6	140
628277	-	30 x 1.0	24.0	725	6	145
628300	628301	37 x 1.0	26.5	890	5	160
628216	628217	7 x 1.5	13.5	250	12	80
628240	628241	10 x 1.5	17.5	365	11	105
628220	628221	12 x 1.5	18.5	410	10	110
628244	628245	14 x 1.5	19.0	465	10	115
628248	628249	16 x 1.5	20.0	535	9	120
628224	628225	19 x 1.5	21.5	610	9	130
628228	628229	24 x 1.5	25.5	785	8	155
628232	628233	27 x 1.5	26.0	860	8	155
-	-	30 x 1.5	27.0	940	7	165
628234	628235	37 x 1.5	29.5	1140	7	175
628218	628219	7 x 2.5	15.0	335	16	90
628242	628243	10 x 2.5	19.5	490	14	115
628222	628223	12 x 2.5	20.0	550	13	120
628246	628247	14 x 2.5	21.5	635	13	130
628250	628251	16 x 2.5	22.5	725	12	135
628226	628227	19 x 2.5	24.0	820	11	145
628230	628231	24 x 2.5	28.5	1070	10	170
628236	628237	27 x 2.5	29.0	1175	10	175
-	-	30 x 2.5	30.0	1290	10	180
628238	628239	37 x 2.5	33.0	1565	9	195

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.