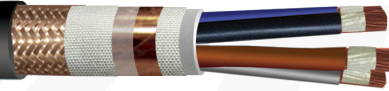


GAALSHIP HF 1000 A FR WSR

ARMoured, POWER & CONTROL CABLE



ELETTROTEK KABEL® GAALSHIP® HF 1000 A FR WSR



APPLICATIONS:

FIRE RESISTANT AND WATER SPRAY RESISTANT POWER AND CONTROL CABLES FOR FIXED ELECTRICAL INSTALLATIONS ABOARD SHIPS, SUITABLE FOR THE POWER SUPPLY OF SAFETY-FIRE DEVICES. THESE CABLES PREVENT THE CABLE SHORT-CIRCUIT DUE TO WATER SPRAYS OF FIRE FIGHTERS' HYDRANTS USED DURING THE FIRE, ALLOWING THE CONTINUOUS OPERATION OF THESE DEVICES.

CONSTRUCTION:

CONDUCTOR:	PLAIN ANNEALED COPPER OR TINNED ANNEALED COPPER CONDUCTOR CL. 2 (*) FLEXIBLE UP TO 10 mm ² CL. 5 FROM 16 mm ² , ACC. TO EN IEC 60228
INSULATION:	MICA GLASS TAPE + GAAL THERM® 597
CORES COLOR:	ACC. TO DIN VDE 0293-308, HD 308 S2 FROM 6 CORES BLACK CORES WITH CONSECUTIVE NUMBERS ACC. TO EN 50334 GREEN-YELLOW EARTH-WIRE FROM 3 CORES
INNER SHEATH (IF ANY):	HALOGEN FREE COMPOUND OR SYNTHETIC TAPE
1ST WRAPPING:	GLASS FIBER TAPE
2ND WRAPPING:	TWO PLAIN ANNEALED COPPER / POLYESTER TAPES
3RD WRAPPING:	GLASS FIBER TAPE
ARMOUR:	PLAIN ANNEALED COPPER WIRES BRAID ACC. TO IEC 60092-350.
OUTER SHEATH:	HALOGEN FREE THERMOPLASTIC COMPOUND TYPE SHF1, ACC. TO IEC 60092-360, THICKNESS ACC. TO IEC 60092-353
MARKING:	ELETTROTEK KABEL® GAALSHIP® HF 1000 A FR WSR, CROSS NOMINAL SECTION SQMM, 0,6/1 kV, PART N°, IEC 60092-353, IEC 60332-3-22, IEC 60331, BS 8491, PRODUCTION PLANT, BATCH N°, PRODUCTION DATE, CE ROHS, PROGRESSIVE METER MARKING.

(*) HIGH FLEXIBILITY ASSOCIATED WITH CLASS 5 CONDUCTORS, SEE 'CONDUCTOR' ON PAGE 5.

TECHNICAL DATA:

NOMINAL VOLTAGE:	U ₀ /U 0,6/1 kV
TEST VOLTAGE:	3,5 kV
TEMPERATURE RANGE:	-40°C UP TO +90°C
INSTALLATION TEMP.:	-20°C
SHORT CIRCUIT TEMPERATURE:	+250°C
MIN. BENDING RADIUS:	4 × OUTER DIAMETER

TYPE APPROVALS/CERTIFICATES:

RINA / RINAMIL (REGISTRO ITALIANO NAVALE)
 BV (BUREAU VERITAS)
 LR (LLOYD'S REGISTER)
 DNV (DET NORSKE VERITAS)
 ABS (AMERICAN BUREAU OF SHIPPING)
 OTHER APPROVALS ON REQUEST

RESISTANCE:

	FIRE RESISTANT ACC. TO: IEC 60331-21 IEC 60331-2 + WATER SPRAY ACC. TO EN 50200 ANNEX E. IEC 60331-1 + WATER JET ACC. TO BS 8491.
	FLAME AND FIRE RETARDANT ACC. TO: EN IEC 60332-1-2, EN IEC 60332-3-22
	HALOGEN FREE ACC. TO: EN IEC 60754-1/2
	SMOKE EMISSION PROPERTIES ACC. TO: EN IEC 61034-1/2
	UV RESISTANCE ACC. TO: UL 1581
	OZONE RESISTANCE ACC. TO: IEC 60092-360

FEATURES:

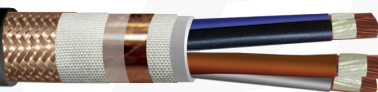
SHEATHING AND INSULATING MATERIALS ACC. TO IEC 60092-360
 DESIGN GUIDELINES ACC. TO IEC 60092-350/353
 CHOICE AND INSTALLATION OF ELECTRIC CABLES ACC. TO
 IEC 60092-352
 COLD BEND TEST AT LOW TEMPERATURES
 ACC. TO IEC 60092-350 ART. 8.9 AND ANNEX E (-40°C)
 COLD BEND IMPACT AT LOW TEMPERATURES
 ACC. TO IEC 60092-350 ART. 8.9 AND ANNEX E (-35°C)
 ON REQUEST CLASS 5 CONDUCTOR FOR SECTIONS UP TO 10 mm²
 TINNED COPPER WIRES BRAID ARMOUR ON REQUEST.

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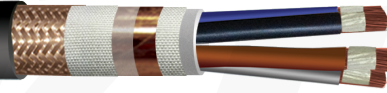
Part number	No. of cores x cross section n x mm ²	Outer dia- meter ca. mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45 °C (A)
1211G7L010M15	1X1,5	7,5	97	12,1	23
1211G7L010M25	1X2,5	7,9	113	7,41	30
1211G7L010M40	1X4	8,5	139	4,61	40
1211G7L010M60	1X6	9	166	3,08	52
1211G7L010M61	1X10	10,1	226	1,83	72
1211G7L010M62	1X16	11,2	308	1,21	96
1211G7L010M63	1X25	13	434	0,78	127
1211G7L010M64	1X35	14,6	587	0,554	157
1211G7L010M65	1X50	16,4	777	0,386	196
1211G7L010M66	1X70	18,4	1027	0,272	242
1211G7L010M67	1X95	20,1	1314	0,206	293
1211G7L010M68	1X120	22,2	1610	0,161	339
1211G7L010M69	1X150	24,1	1964	0,129	389
1211G7L010M70	1X185	26,5	2392	0,106	444
1211G7L010M71	1X240	29,3	3005	0,0801	522
1211G7L010M72	1X300	32,3	3685	0,0641	601
1211G7L010M73	1X400	36,4	4878	0,0486	690
1211G73020M10	2X1	11,3	188	18,1	11
1211G73020M15	2X1,5	11,8	209	12,1	20
1211G73020M25	2X2,5	12,7	251	7,41	26
1211GE3020M40	2X4	13,9	310	4,61	34
12101GE3020M60	2X6	15,5	412	3,08	44
1211G73020M61	2X10	17,5	545	1,83	61
1211G73020M62	2X16	19,6	724	1,21	82
1211G73020M63	2X25	22,6	981	0,78	108
1211G73020M64	2X35	25	1258	0,554	133
1211G73020M65	2X50	28,7	1681	0,386	155
1211G73030M10	3X1	11,8	211	18,1	9
1211G73030M15	3X1,5	12,5	239	12,1	16
1211GE2031M15	3G1,5	12,5	239	12,1	20
1211G73030M25	3X2,5	13,5	296	7,41	21
1211GE2031M25	3G2,5	13,5	296	7,41	26
1211G73030M40	3X4	15,1	399	4,61	28
1211G72031M40	3G4	15,1	399	4,61	34
1211G73030M60	3X6	16,4	502	3,08	36
1211G72031M60	3G6	16,4	502	3,08	44
1211G73030M61	3X10	18,4	681	1,83	50
1211G72031M61	3G10	18,4	681	1,83	61
1211G73030M62	3X16	20,9	936	1,21	67
1211G72031M62	3G16	20,9	936	1,21	82
1211G73030M63	3X25	24,1	1297	0,78	89
1211G73030M64	3X35	26,7	1664	0,554	110

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Part number	No. of cores x cross section n x mm ²	Outer dia- meter ca. mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45 °C (A)
1211G73030M65	3X50	30,6	2252	0,386	137
1211G73030M66	3X70	34,8	3011	0,272	169
1211G73030M67	3X95	39	3993	0,206	205
1211G73030M68	3X120	43,4	4933	0,161	237
1211G73030M69	3X150	47,5	6008	0,129	272
1211G73030M70	3X185	52,7	7295	0,106	311
1211G73030M71	3X240	58,8	9182	0,0801	365
1211G73030M72	3X300	65,4	11279	0,0641	421
1211GG3040M10	4X1	12,7	245	18,1	13
1211GG3040M15	4X1,5	13,5	288	12,1	16
1211G73040M15	4X1,5	13,5	288	12,1	16
1211GE2041M15	4G1,5	13,5	288	12,1	16
1211GG3040M25	4X2,5	15	385	7,41	21
1211G73040M25	4X2,5	15	385	7,41	21
1211GE2041M25	4G2,5	15	385	7,41	21
1211G73040M40	4X4	16,3	480	4,61	28
1211G72041M40	4G4	16,3	480	4,61	28
1211G73040M60	4X6	17,8	601	3,08	36
1211G72041M60	4G6	17,8	601	3,08	36
1211G73040M61	4X10	20,2	821	1,83	50
1211G72041M61	4G10	20,2	821	1,83	50
1211G73040M62	4X16	22,8	1133	1,21	67
1211G72041M62	4G16	22,8	1133	1,21	67
1211G73040M63	4X25	26,4	1588	0,78	89
1211G73040M64	4X35	29,3	2060	0,554	110
1211G73040M65	4X50	33,6	2880	0,386	137
1211G73040M66	4X70	38,8	3967	0,272	169
1211G73040M67	4X95	42,9	5135	0,206	205
1211G73040M68	4X120	47,9	6327	0,161	237
1211G73040M69	4X150	52,4	7783	0,129	272
1211G73040M70	4X185	58,3	9519	0,106	311
1211G73040M71	4X240	65	12012	0,0801	365
1211GG3050M10	5X1	13,8	292	18,1	13
1211GG3050M15	5X1,5	15	370	12,1	16
1211G72051M15	5G1,5	15	370	12,1	16
1211GG3050M25	5X2,5	16,1	455	7,41	21
1211G72051M25	5G2,5	16,1	455	7,41	21
1211G73050M40	5X4	17,7	573	4,61	28
1211G72051M40	5G4	17,7	573	4,61	28
1211G73050M60	5X6	19,3	717	3,08	36
1211G72051M60	5G6	19,3	717	3,08	36
1211G73050M61	5X10	22	997	1,83	50

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Part number	No. of cores x cross section n x mm ²	Outer dia- meter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45 °C (A)
1211G72051M61	5G10	22	997	1,83	50
1211G73050M62	5X16	24,9	1384	1,21	67
1211G72051M62	5G16	24,9	1384	1,21	67
1211G73050M63	5X25	29,1	1956	0,78	89
1211G73050M64	5X35	32,2	2548	0,554	110
1211G73050M65	5X50	37,6	3628	0,386	137
1211G73050M66	5X70	42,9	4873	0,272	169
1211G73050M67	5X95	47,6	6297	0,206	172
1211G73050M68	5X120	53,1	7833	0,161	199
1211G73050M69	5X150	58,2	9531	0,129	228
1211G73050M70	5X185	64,7	11689	0,106	261
1211GG1070M10	7X1	14,8	366	18,1	8
1211GG1070M15	7X1,5	15,6	421	12,1	10
1211GG1070M25	7X2,5	16,9	531	7,41	14
1211GG1100M10	10X1	17,6	509	18,1	7
1211GG1100M15	10X1,5	18,6	595	12,1	9
1211GG1100M25	10X2,5	20,3	746	7,41	12
1211GG1120M10	12X1	18,6	568	18,1	7
1211GG1120M15	12X1,5	19,8	667	12,1	9
1211GG1120M25	12X2,5	21,6	852	7,41	11
1211GG1140M10	14X1	19,4	622	18,1	6
1211GG1140M15	14X1,5	20,6	741	12,1	8
1211GG1140M25	14X2,5	22,7	946	7,41	11
1211GG1160M10	16X1	20,4	687	18,1	6
1211GG1160M15	16X1,5	21,8	823	12,1	8
1211GG1160M25	16X2,5	23,8	1055	7,41	10
1211GG1190M10	19X1	21,5	780	18,1	6
1211GG1190M15	19X1,5	22,9	922	12,1	7
1211GG1190M25	19X2,5	25	1193	7,41	10
1211GG1240M10	24X1	24,5	1012	18,1	5
1211GG1240M15	24X1,5	26,1	1198	12,1	7
1211GG1240M25	24X2,5	28,7	1563	7,41	9
1211GG1270M10	27X1	25,4	1090	18,1	5
1211GG1270M15	27X1,5	27,1	1290	12,1	7
1211GG1270M25	27X2,5	29,8	1686	7,41	9
1211GG1300M10	30X1	26,2	1157	18,1	5
1211GG1300M15	30X1,5	28	1394	12,1	6
1211GG1300M25	30X2,5	30,9	1815	7,41	8
1211GG1370M10	37X1	28,2	1362	18,1	5
1211GG1370M11	37X1,5	30,2	1635	12,1	6
1211GG1370M12	37X2,5	33,2	2145	7,41	8

NOTE(S)

OTHER DIMENSIONS AND COLORS AVAILABLE ON REQUEST.