

GAALSHIP® HF 1000 A FR

Armoured, fire resistant power and control cable 0,6/1 kV



ELETTROTEK KABEL® GAALSHIP® HF 1000 A FR

Applications:

Fire resistant power and control cables for fixed electrical installations aboard ships complying with IEC 60092-352.

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 + GAALTHERM® 595
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
Armour:	Plain or tinned 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, cross nominal section sqmm, 0,6/1 kV, part n°, IEC 60092-353, IEC 60332-3-22, IEC 60331, production plant, batch n°, production date, CE RoHS, progressive meter marking.

Type Approvals/Certificates:

RINA / RINAMIL (Registro Italiano Navale)
BV (Bureau Veritas)
LR (Lloyd's Register)
DNV-GL (Det Norske Veritas - Germanischer Lloyd)
ABS (American Bureau of Shipping)
 Other approvals on request

Resistance:



Fire resistant acc. to:
 IEC 60331-21
 IEC 60331-2 (under 20 mm Ø)
 IEC 60331-1 (over 20 mm Ø)



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

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.:	-5°C
Short circuit temperature:	+250°C
Min. bending radius:	4 x Outer diameter

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

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Part no.	No. of cores x cross section n x mm ²	Outer sheath color	Outer diameter ca.mm	Copper weight approx. kg/km	Cable weight approx. kg/km	Current rating in open air at 45°C (A)
12071G7L010M15	1 x 1,5	Black	6,3	34	70	23
12071G7L010M25	1 x 2,5	Black	6,7	47	87	30
12071G7L010M40	1 x 4	Black	7,3	63	109	40
12071G7L010M60	1 x 6	Black	7,9	85	136	52
12071G7L010M61	1 x 10	Black	9	128	191	72
12071G7L010M62	1 x 16	Black	10,1	193	269	96
12071G7L010M63	1 x 25	Black	11,9	288	389	127
12071G7L010M64	1 x 35	Black	13,1	391	506	157
12071G7L010M65	1 x 50	Black	15,4	576	725	196
12071G7L010M66	1 x 70	Black	17,3	780	959	242
12071G7L010M67	1 x 95	Black	19	1033	1237	293
12071G7L010M68	1 x 120	Black	21,1	1293	1538	339
12071G7L010M69	1 x 150	Black	22,9	1588	1876	389
12071G7L010M70	1 x 185	Black	25,4	1945	2293	444
12071G7L010M71	1 x 240	Black	28,2	2498	2910	522
12071G7L010M72	1 x 300	Black	31,2	3096	3580	601
12071G7L010M73	1 x 400	Black	34,9	4087	4679	690 (DC) / 670 (AC)
12071G73020M10	2 x 1	Black	10,2	55	150	11
12071G73020M15	2 x 1,5	Black	10,8	66	171	20
12071G73020M25	2 x 2,5	Black	11,6	89	207	26
12071GE3020M40	2 x 4	Green	12,7	125	260	34
12071GE3020M60	2 x 6	Green	14	170	328	44
12071G73020M61	2 x 10	Black	16,4	291	488	61
12071G73020M62	2 x 16	Black	18,5	423	664	82
12071G73020M63	2 x 25	Black	21,5	624	910	108
12071G73020M64	2 x 35	Black	23,9	834	1179	133
12071G73020M65	2 x 50	Black	27,6	1148	1589	155
12071G73030M10	3 x 1	Black	10,8	68	172	9
12071G73030M15	3 x 1,5	Black	11,3	84	196	16
12071GE2031M15	3 G 1,5	Green	11,3	84	196	20
12071G73030M25	3 x 2,5	Black	12,3	119	247	21
12071GE2031M25	3 G 2,5	Green	12,3	119	247	26
12071G73030M40	3 x 4	Black	13,6	165	315	28
12071G72031M40	3 G 4	Black	13,6	165	315	34
12071G73030M60	3 x 6	Black	15,2	259	445	36
12071G72031M60	3 G 6	Black	15,2	259	445	44
12071G73030M61	3 x 10	Black	17,4	393	619	50
12071G72031M61	3 G 10	Black	17,4	393	619	61
12071G73030M62	3 x 16	Black	19,7	584	854	67
12071G72031M62	3 G 16	Black	19,7	584	854	82
12071G73030M63	3 x 25	Black	22,9	866	1205	89
12071G73030M64	3 x 35	Black	25,5	1179	1579	110
12071G73030M65	3 x 50	Black	29,5	1648	2154	137
12071G73030M66	3 x 70	Black	33,7	2259	2899	169
12071G73030M67	3 x 95	Black	37,8	3069	3838	205
12071G73030M68	3 x 120	Black	42,3	3857	4801	237
12071G73030M69	3 x 150	Black	46,4	4765	5864	272
12071G73030M70	3 x 185	Black	51,7	5828	7134	311
12071G73030M71	3 x 240	Black	57,7	7459	8990	365
12071G73030M72	3 x 300	Black	64,2	9263	11064	421
12071GG3040M10	4 x 1	Orange	11,5	79	201	13
12071GG3040M15	4 x 1,5	Orange	12,3	104	239	16
12071G73040M15	4 x 1,5	Black	12,3	104	239	16
12071GE2041M15	4 G 1,5	Green	12,3	104	239	16
12071GG3040M25	4 x 2,5	Orange	13,4	145	300	21
12071G73040M25	4 x 2,5	Black	13,4	145	300	21
12071GE2041M25	4 G 2,5	Green	13,4	145	300	21
12071G73040M40	4 x 4	Black	15,1	240	422	28
12071G72041M40	4 G 4	Black	15,1	240	422	28

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12071G73040M60	4 x 6	Black	16,5	327	535	36
12071G72041M60	4 G 6	Black	16,5	327	535	36
12071G73040M61	4 x 10	Black	19	500	749	50
12071G72041M61	4 G 10	Black	19	500	749	50
12071G73040M62	4 x 16	Black	21,7	754	1062	67
12071G72041M62	4 G 16	Black	21,7	754	1062	67
12071G73040M63	4 x 25	Black	25,3	1131	1503	89
12071G73040M64	4 x 35	Black	28,1	1532	1965	110
12071G73040M65	4 x 50	Black	32,5	2143	2771	137
12071G73040M66	4 x 70	Black	37,6	3021	3811	169
12071G73040M67	4 x 95	Black	41,8	4048	4995	205
12071G73040M68	4 x 120	Black	46,8	5054	6170	237
12071G73040M69	4 x 150	Black	51,3	6255	7612	272
12071G73040M70	4 x 185	Black	57,2	7657	9342	311
12071G73040M71	4 x 240	Black	64	9839	11813	365
12071GG3050M10	5 x 1	Orange	12,5	95	242	13
12071GG3050M15	5 x 1,5	Orange	13,4	121	286	16
12071G72051M15	5 G 1,5	Black	13,4	121	286	16
12071GG3050M25	5 x 2,5	Orange	15	207	399	21
12071G72051M25	5 G 2,5	Black	15	207	399	21
12071G73050M40	5 x 4	Black	16,5	288	510	28
12071G72051M40	5 G 4	Black	16,5	288	510	28
12071G73050M60	5 x 6	Black	18,1	402	659	36
12071G72051M60	5 G 6	Black	18,1	402	659	36
12071G73050M61	5 x 10	Black	20,8	618	929	50
12071G72051M61	5 G 10	Black	20,8	618	929	50
12071G73050M62	5 x 16	Black	23,7	914	1292	67
12071G72051M62	5 G 16	Black	23,7	914	1292	67
12071G73050M63	5 x 25	Black	27,9	1392	1862	89
12071G73050M64	5 x 35	Black	31,1	1892	2444	110
12071G73050M65	5 x 50	Black	36,5	2720	3496	137
12071G73050M66	5 x 70	Black	41,7	3742	4733	169
12071G73050M67	5 x 95	Black	46,5	5005	6142	172
12071G73050M68	5 x 120	Black	52	6274	7658	199
12071G73050M69	5 x 150	Black	57,1	7717	9346	228
12071G73050M70	5 x 185	Black	63,6	9486	11475	261
12071GG1070M10	7 x 1	Orange	13,3	121	286	8
12071GG1070M15	7 x 1,5	Orange	14,5	188	374	10
12071GG1070M25	7 x 2,5	Orange	15,8	264	476	14
12071GG1100M10	10 x 1	Orange	16,4	193	443	7
12071GG1100M15	10 x 1,5	Orange	17,5	250	530	9
12071GG1100M25	10 x 2,5	Orange	19,1	357	677	12
12071GG1120M10	12 x 1	Orange	17,5	230	512	7
12071GG1120M15	12 x 1,5	Orange	18,6	289	599	9
12071GG1120M25	12 x 2,5	Orange	20,4	413	767	11
12071GG1140M10	14 x 1	Orange	18,3	254	566	6
12071GG1140M15	14 x 1,5	Orange	19,5	322	662	8
12071GG1140M25	14 x 2,5	Orange	21,5	477	875	11
12071GG1160M10	16 x 1	Orange	19,2	274	620	6
12071GG1160M15	16 x 1,5	Orange	20,5	368	750	8
12071GG1160M25	16 x 2,5	Orange	22,7	529	976	10
12071GG1190M10	19 x 1	Orange	20,3	307	696	6
12071GG1190M15	19 x 1,5	Orange	21,7	417	850	7
12071GG1190M25	19 x 2,5	Orange	23,9	619	1120	10
12071GG1240M10	24 x 1	Orange	23,4	376	919	5
12071GG1240M15	24 x 1,5	Orange	25	511	1115	7
12071GG1240M25	24 x 2,5	Orange	27,5	769	1471	9

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12071GG1270M10	27 x 1	Orange	24,3	424	1010	5
12071GG1270M15	27 x 1,5	Orange	25,9	560	1204	7
12071GG1270M25	27 x 2,5	Orange	28,6	842	1584	9
12071GG1300M10	30 x 1	Orange	25	454	1074	5
12071GG1300M15	30 x 1,5	Orange	26,9	617	1306	6
12071GG1300M25	30 x 2,5	Orange	29,7	913	1713	8
12071GG1370M10	37 x 1	Orange	27,1	542	1273	5
12071GG1370M15	37 x 1,5	Orange	28,9	727	1532	6
12071GG1370M25	37 x 2,5	Orange	32,1	1104	2045	8

Other dimensions and colors available on request.