GAALSHIP® HF 1000 FR

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



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 mm² Cl. 5 from 16 mm², 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
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 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 - Germanisher 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:	Uo/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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12061G7L010M15	1 x 1,5	Black	5,4	14	45	23
12061G7L010M25	1 x 2,5	Black	5,8	24	58	30
12061G7L010M40	1 x 4	Black	6,3	38	76	40
12061G7L010M60	1 x 6	Black	6,8	58	100	52
12061G7L010M61	1 x 10	Black	7,9	96	149	72
12061G7L010M62	1 x 16	Black	9	154	218	96
12061G7L010M63	1 x 25	Black	10,8	240	328	127
12061G7L010M64	1 x 35	Black	12	336	438	157
12061G7L010M65	1 x 50	Black	13,9	480	610	196
12061G7L010M66	1 x 70	Black	15,8	672	830	242
12061G7L010M67	1 x 95	Black	17,5	912	1094	293
12061G7L010M68	1 x 120	Black	19,6	1152	1372	339
12061G7L010M69	1 x 150	Black	21,5	1440	1701	389
12061G7L010M70	1 x 185	Black	23,9	1776	2095	444
12061G7L010M71	1 x 240	Black	26,7	2304	2685	522
12061G7L010M72	1 x 300	Black	29,7	2880	3330	601
12061G7L010M73	1 x 400	Black	33,4	3840	4394	690 (DC) / 670 (AC)
12061G73020M10	2 x 1	Black	9,3	19	107	11
12061G73020M15	2 x 1,5	Black	9,8	29	124	20
12061G73020M25	2 x 2,5	Black	10,7	48	158	26
12061GE3020M40	2 x 4	Green	11,7	77	202	34
12061GE3020M60	2 x 6	Green	12,9	115	259	44
12061G73020M61	2 x 10	Black	15	192	374	61
12061G73020M62	2 x 16	Black	17,1	307	531	82
12061G73020M63	2 x 25	Black	20,1	480	749	108
12061G73020M64	2 x 35	Black	22,5	672	999	133
12061G73020M65	2 x 50	Black	26,2	960	1381	155
12061G73030M10	3 x 1	Black	9,8	29	124	9
12061G73030M15	3 x 1,5	Black	10,3	43	146	16
12061GE2031M15	3 G 1,5	Green	10,3	43	146	20
12061G73030M25	3 x 2,5	Black	11,3	72	189	21
12061GE2031M25	3 G 2,5	Green	11,3	72	189	26
12061G73030M40	3 x 4	Black	12,5	115	251	28
12061G72031M40	3 G 4	Black	12,5	115	251	34
12061G73030M60	3 x 6	Black	13,9	173	344	36
12061G72031M60	3 G 6	Black	13,9	173	344	44
12061G73030M61	3 x 10	Black	16	288	498	50
12061G72031M61	3 G 10	Black	16	288	498	61
12061G73030M62	3 x 16	Black	18,3	461	714	67
12061G72031M62	3 G 16	Black	18,3	461	714	82
12061G73030M63	3 x 25	Black	21,6	720	1042	89
12061G73030M64	3 x 35	Black	24,1	1008	1389	110
12061G73030M65	3 x 50	Black	28,1	1440	1925	137
12061G73030M66	3 x 70	Black	32,3	2016	2632	169
12061G73030M67	3 x 95	Black	36,1	2736	3474	205
12061G73030M68	3 x 120	Black	40,5	3456	4357	237
12061G73030M69	3 x 150	Black	44,5	4320	5372	272
12061G73030M70	3 x 150	Black	49,8	5328	6583	311
12061G73030M71	3 x 240	Black	55,9	6912	8399	365
12061G73030M72	3 x 300	Black	62,5	8640	10393	421
12061GG3040M10	4 x 1	Orange	10,7	38	153	13
12061GG3040M15	4 x 1,5	Orange	11,3	58	181	16
12061G73040M15	4 x 1,5	Black	11,3	58	181	16
12061GE2041M15	4 G 1,5	Green	11,3	58	181	16
12061GG3040M25	4 x 2,5	Orange	12,3	96	238	21
12061G73040M25	4 x 2,5	Black	12,3	96	238	21
12061GE2041M25	4 G 2,5	Green	12,3	96	238	21
12061G73040M40	4 x 4	Black	13,8	154	322	28
12061G72041M40	4 G 4	Black	13,8	154	322	28
12061G73040M60	4 x 6	Black	15,2	230	425	36
12061G72041M60	4 G 6	Black	15,2	230	425	36

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12061G73040M61	4 x 10	Black	17,6	384	619	50
12061G72041M61	4 G 10	Black	17,6	384	619	50
12061G73040M62	4 x 16	Black	20,3	614	909	67
12061G72041M62	4 G 16	Black	20,3	614	909	67
12061G73040M63	4 x 25	Black	23,9	960	1323	89
12061G73040M64	4 x 35	Black	26,7	1344	1768	110
12061G73040M65	4 x 50	Black	31,1	1920	2525	137
12061G73040M66	4 x 70	Black	35,9	2688	3448	169
12061G73040M67	4 x 95	Black	40	3648	4562	205
12061G73040M68	4 x 120	Black	45	4608	5688	237
12061G73040M69	4 x 150	Black	49,5	5760	7079	272
12061G73040M70	4 x 185	Black	55,4	7104	8733	311
12061G73040M71	4 x 240	Black	62,1	9216	11127	365
12061GG3050M10	5 x 1	Orange	11,6	48	184	13
12061GG3050M15	5 x 1,5	Orange	12,4	72	223	16
12061G72051M15	5 G 1,5	Black	12,4	72	223	16
12061GG3050M25	5 x 2,5	Orange	13,6	120	296	21
12061G72051M25	5 G 2,5	Black	13,6	120	296	21
12061G73050M40	5 x 4	Black	15,1	192	397	28
12061G72051M40	5 G 4	Black	15,1	192	397	28
12061G73050M60	5 x 6	Black	16,7	288	523	36
12061G72051M60	5 G 6	Black	16,7	288	523	36
12061G73050M61	5 x 10	Black	19,4	480	768	50
12061G72051M61	5 G 10	Black	19,4	480	768	50
12061G73050M62	5 x 16	Black	22,4	768	1127	67
12061G72051M62	5 G 16	Black	22,4	768	1127	67
12061G73050M63	5 x 25	Black	26,6	1200	1650	89
12061G73050M64	5 x 35	Black	29,7	1680	2210	110
12061G73050M65	5 x 50	Black	34,7	2400	3146	137
12061G73050M66	5 x 70	Black	40	3360	4319	169
12061G73050M67	5 x 95	Black	44,6	4560	5650	172
12061G73050M68	5 x 120	Black	50,1	5760	7093	199
12061G73050M69	5 x 150	Black	55,3	7200	8772	228
12061G73050M70	5 x 185	Black	61,8	8880	10822	261
12061GG1070M10	7 x 1	Orange	12,3	67	222	8
12061GG1070M15	7 x 1,5	Orange	13,2	101	273	10
12061GG1070M25	7 x 2,5	Orange	14,5	168	365	14
12061GG1100M10	10 x 1	Orange	15	96	331	7
12061GG1100M15	10 x 1,5	Orange	16	144	404	9
12061GG1100M25	10 x 2,5	Orange	17,8	240	543	12
12061GG1120M10	12 x 1	Orange	16,1	115	382	7
12061GG1120M15	12 x 1,5	Orange	17,2	173	467	9
12061GG1120M25	12 x 2,5	Orange	19	288	625	11
12061GG1140M10	14 x 1	Orange	17	134	431	6
12061GG1140M15	14 x 1,5	Orange	18,1	202	525	8
12061GG1140M25	14 x 2,5	Orange	20	336	711	11
12061GG1160M10	16 x 1	Orange	17,9	154	484	6
12061GG1160M15	16 x 1,5	Orange	19,2	230	595	8
12061GG1160M25	16 x 2,5	Orange	21,3	384	813	10
12061GG1190M10	19 x 1	Orange	18,9	182	554	6
12061GG1190M15	19 x 1,5	Orange	20,3	274	684	7
12061GG1190M25	19 x 2,5	Orange	22,6	456	937	10
12061GG1240M10	24 x 1	Orange	22	230	754	5
12061GG1240M15	24 x 1,5	Orange	23,6	346	930	7
12061GG1240M25	24 x 2,5	Orange	26,2	576	1257	9
12061GG1270M10	27 x 1	Orange	22,9	259	825	5
12061GG1270M15	27 x 1,5	Orange	24,5	389	1012	7
12061GG1270M25	27 x 2,5	Orange	27,2	648	1368	9

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12061GG1300M10	30 x 1	Orange	23,7	288	888	5
12061GG1300M15	30 x 1,5	Orange	25,5	432	1099	6
12061GG1300M25	30 x 2,5	Orange	28,2	720	1490	8
12061GG1370M10	37 x 1	Orange	25,7	355	1065	5
12061GG1370M15	37 x 1,5	Orange	27,6	533	1315	6
12061GG1370M25	37 x 2,5	Orange	30,8	888	1805	8

Other dimensions and colors available on request.