

GAALSHIP® HF 1000 A FR WSR

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



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 + GAALTHERM® 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 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 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.

Type Approvals/Certificates:

RINA /RINAMIL (Registro Italiano Navale)

BV (Bureau Veritas)

LR (Lloyd's Register)

DNV-GL (Det Norske Veritas - Germanischer Lloyd) in progress

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),
EN 50200 Annex E Water Spray Test,
BS 8491 Water Jet Test



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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12111G7L010M15	1 x 1,5	Black	7,5	49	97	23
12111G7L010M25	1 x 2,5	Black	7,9	61	113	30
12111G7L010M40	1 x 4	Black	8,5	79	139	40
12111G7L010M60	1 x 6	Black	9,0	101	166	52
12111G7L010M61	1 x 10	Black	10,1	147	226	72
12111G7L010M62	1 x 16	Black	11,2	214	308	96
12111G7L010M63	1 x 25	Black	13	312	434	127
12111G7L010M64	1 x 35	Black	14,6	445	587	157
12111G7L010M65	1 x 50	Black	16,4	606	777	196
12111G7L010M66	1 x 70	Black	18,4	819	1027	242
12111G7L010M67	1 x 95	Black	20,1	1079	1314	293
12111G7L010M68	1 x 120	Black	22,2	1330	1610	339
12111G7L010M69	1 x 150	Black	24,1	1639	1964	389
12111G7L010M70	1 x 185	Black	26,5	2002	2392	444
12111G7L010M71	1 x 240	Black	29,3	2546	3005	522
12111G7L010M72	1 x 300	Black	32,3	3149	3685	601
12111G7L010M73	1 x 400	Black	36,4	4224	4878	690 (DC) / 670 (AC)
12111G73020M10	2 x 1	Black	11,3	74	188	11
12111G73020M15	2 x 1,5	Black	11,8	87	209	20
12111G73020M25	2 x 2,5	Black	12,7	112	251	26
12111GE3020M40	2 x 4	Green	13,9	148	310	34
12101GE3020M60	2 x 6	Green	15,5	224	412	44
12111G73020M61	2 x 10	Black	17,5	319	545	61
12111G73020M62	2 x 16	Black	19,6	452	724	82
12111G73020M63	2 x 25	Black	22,6	659	981	108
12111G73020M64	2 x 35	Black	25	873	1258	133
12111G73020M65	2 x 50	Black	28,7	1194	1681	155
12111G73030M10	3 x 1	Black	11,8	89	211	9
12111G73030M15	3 x 1,5	Black	12,5	105	239	16
12111GE2031M15	3 G 1,5	Green	12,5	105	239	20
12111G73030M25	3 x 2,5	Black	13,5	142	296	21
12111GE2031M25	3 G 2,5	Green	13,5	142	296	26
12111G73030M40	3 x 4	Black	15,1	221	399	28
12111G72031M40	3 G 4	Black	15,1	221	399	34
12111G73030M60	3 x 6	Black	16,4	289	502	36
12111G72031M60	3 G 6	Black	16,4	289	502	44
12111G73030M61	3 x 10	Black	18,4	429	681	50
12111G72031M61	3 G 10	Black	18,4	429	681	61
12111G73030M62	3 x 16	Black	20,9	628	936	67
12111G72031M62	3 G 16	Black	20,9	628	936	82
12111G73030M63	3 x 25	Black	24,1	919	1297	89
12111G73030M64	3 x 35	Black	26,7	1222	1664	110
12111G73030M65	3 x 50	Black	30,6	1697	2252	137
12111G73030M66	3 x 70	Black	34,8	2316	3011	169
12111G73030M67	3 x 95	Black	39	3164	3993	205
12111G73030M68	3 x 120	Black	43,4	3931	4933	237
12111G73030M69	3 x 150	Black	47,5	4845	6008	272
12111G73030M70	3 x 185	Black	52,7	5917	7295	311
12111G73030M71	3 x 240	Black	58,8	7559	9182	365
12111G73030M72	3 x 300	Black	65,4	9375	11279	421
12111GG3040M10	4 x 1	Orange	12,7	102	245	13
12111GG3040M15	4 x 1,5	Orange	13,5	128	288	16
12111G73040M15	4 x 1,5	Black	13,5	128	288	16
12111GE2041M15	4 G 1,5	Green	13,5	128	288	16
12111GG3040M25	4 x 2,5	Orange	15	201	385	21
12111G73040M25	4 x 2,5	Black	15	201	385	21
12111GE2041M25	4 G 2,5	Green	15	201	385	21
12111G73040M40	4 x 4	Black	16,3	271	480	28
12111G72041M40	4 G 4	Black	16,3	271	480	28

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12111G73040M60	4 x 6	Black	17,8	360	601	36
12111G72041M60	4 G 6	Black	17,8	360	601	36
12111G73040M61	4 x 10	Black	20,2	535	821	50
12111G72041M61	4 G 10	Black	20,2	535	821	50
12111G73040M62	4 x 16	Black	22,8	788	1133	67
12111G72041M62	4 G 16	Black	22,8	788	1133	67
12111G73040M63	4 x 25	Black	26,4	1174	1588	89
12111G73040M64	4 x 35	Black	29,3	1580	2060	110
12111G73040M65	4 x 50	Black	33,6	2199	2880	137
12111G73040M66	4 x 70	Black	38,8	3115	3967	169
12111G73040M67	4 x 95	Black	42,9	4121	5135	205
12111G73040M68	4 x 120	Black	47,9	5135	6327	237
12111G73040M69	4 x 150	Black	52,4	6343	7783	272
12111G73040M70	4 x 185	Black	58,3	7755	9519	311
12111G73040M71	4 x 240	Black	65	9950	12012	365
12111GG3050M10	5 x 1	Orange	13,8	119	292	13
12111GG3050M15	5 x 1,5	Orange	15	177	370	16
12111G72051M15	5 G 1,5	Black	15	177	370	16
12111GG3050M25	5 x 2,5	Orange	16,1	237	455	21
12111G72051M25	5 G 2,5	Black	16,1	237	455	21
12111G73050M40	5 x 4	Black	17,7	319	573	28
12111G72051M40	5 G 4	Black	17,7	319	573	28
12111G73050M60	5 x 6	Black	19,3	430	717	36
12111G72051M60	5 G 6	Black	19,3	430	717	36
12111G73050M61	5 x 10	Black	22	650	997	50
12111G72051M61	5 G 10	Black	22	650	997	50
12111G73050M62	5 x 16	Black	24,9	965	1384	67
12111G72051M62	5 G 16	Black	24,9	965	1384	67
12111G73050M63	5 x 25	Black	29,1	1439	1956	89
12111G73050M64	5 x 35	Black	32,2	1945	2548	110
12111G73050M65	5 x 50	Black	37,6	2793	3628	137
12111G73050M66	5 x 70	Black	42,9	3813	4873	169
12111G73050M67	5 x 95	Black	47,6	5085	6297	172
12111G73050M68	5 x 120	Black	53,1	6364	7833	199
12111G73050M69	5 x 150	Black	58,2	7823	9531	228
12111G73050M70	5 x 185	Black	64,7	9597	11689	261
12111GG1070M10	7 x 1	Orange	14,8	174	366	8
12111GG1070M15	7 x 1,5	Orange	15,6	214	421	10
12111GG1070M25	7 x 2,5	Orange	16,9	295	531	14
12111GG1100M10	10 x 1	Orange	17,6	226	509	7
12111GG1100M15	10 x 1,5	Orange	18,6	285	595	9
12111GG1100M25	10 x 2,5	Orange	20,3	393	746	12
12111GG1120M10	12 x 1	Orange	18,6	257	568	7
12111GG1120M15	12 x 1,5	Orange	19,8	325	667	9
12111GG1120M25	12 x 2,5	Orange	21,6	458	852	11
12111GG1140M10	14 x 1	Orange	19,4	283	622	6
12111GG1140M15	14 x 1,5	Orange	20,6	368	741	8
12111GG1140M25	14 x 2,5	Orange	22,7	512	946	11
12111GG1160M10	16 x 1	Orange	20,4	308	687	6
12111GG1160M15	16 x 1,5	Orange	21,8	401	823	8
12111GG1160M25	16 x 2,5	Orange	23,8	568	1055	10
12111GG1190M10	19 x 1	Orange	21,5	352	780	6
12111GG1190M15	19 x 1,5	Orange	22,9	452	922	7
12111GG1190M25	19 x 2,5	Orange	25	657	1193	10
12111GG1240M10	24 x 1	Orange	24,5	429	1012	5
12111GG1240M15	24 x 1,5	Orange	26,1	552	1198	7
12111GG1240M25	24 x 2,5	Orange	28,7	814	1563	9

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12111GG1270M10	27 x 1	Orange	25,4	463	1090	5
12111GG1270M15	27 x 1,5	Orange	27,1	603	1290	7
12111GG1270M25	27 x 2,5	Orange	29,8	890	1686	9
12111GG1300M10	30 x 1	Orange	26,2	495	1157	5
12111GG1300M15	30 x 1,5	Orange	28	661	1394	6
12111GG1300M25	30 x 2,5	Orange	30,9	965	1815	8
12111GG1370M10	37 x 1	Orange	28,2	586	1362	5
12111GG1370M11	37 x 1,5	Orange	30,2	776	1635	6
12111GG1370M12	37 x 2,5	Orange	33,2	1158	2145	8

Other dimensions and colors available on request.