

# GAALSHIP HF 1000 A

ARMoured, POWER & CONTROL CABLE



ELETTROTEK KABEL® GAALSHIP® HF 1000 A

## APPLICATIONS:

POWER AND CONTROL CABLES FOR FIXED ELECTRICAL INSTALLATIONS ABOARD SHIPS COMPLYING WITH IEC 60092-352.

## CONSTRUCTION:

<b>CONDUCTOR:</b>	PLAIN ANNEALED COPPER OR TINNED ANNEALED COPPER CONDUCTOR CL. 2 FLEXIBLE * UP TO 10 mm <sup>2</sup> CL. 5 FROM 16 mm <sup>2</sup> , ACC. TO EN IEC 60228
<b>INSULATION:</b>	GAAL THERM® 595
<b>CORES COLOR:</b>	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
<b>INNER SHEATH (IF ANY):</b>	HALOGEN FREE COMPOUND OR SYNTHETIC TAPE
<b>ARMOUR:</b>	PLAIN ANNEALED COPPER WIRES BRAID ACC. TO IEC 60092-350.
<b>OUTER SHEATH:</b>	HALOGEN FREE THERMOPLASTIC COMPOUND TYPE SHF1, ACC. TO IEC 60092-360, THICKNESS ACC. TO IEC 60092-353
<b>MARKING:</b>	ELETTROTEK KABEL® GAALSHIP® HF 1000, CROSS NOMINAL SECTION mm <sup>2</sup> , 0,6/1 kV, PART N°, IEC 60092-353, IEC 60332-3-22, PRODUCTION PLANT, BATCH N°, PRODUCTION DATE, CE ROHS, PROGRESSIVE METER MARKING BLACK.

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

## TECHNICAL DATA:

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



**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 mm<sup>2</sup>  
 TINNED COPPER WIRES BRAID ARMOUR ON REQUEST

# GAALSHIP HF 1000 A

ARMoured, POWER & CONTROL CABLE



ELETTROTEK KABEL® GAALSHIP® HF 1000 A

Part number	No. of cores x cross section n x mm <sup>2</sup>	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45°C (A)
12051G7L010M15	1X1,5	5,9	64	12,1	23
12051G7L010M25	1X2,5	6,3	79	7,41	30
12051G7L010M40	1X4	6,8	100	4,61	40
12051G7L010M60	1X6	7,5	128	3,08	52
12051G7L010M61	1X10	8,6	183	1,83	72
12051G7L010M62	1X16	9,6	255	1,21	96
12051G7L010M63	1X25	11,5	378	0,78	127
12051G7L010M64	1X35	12,7	495	0,554	157
12051G7L010M65	1X50	14,9	705	0,386	196
12051G7L010M66	1X70	16,9	943	0,272	242
12051G7L010M67	1X95	18,6	1221	0,206	293
12051G7L010M68	1X120	20,7	1518	0,161	339
12051G7L010M69	1X150	22,5	1854	0,129	389
12051G7L010M70	1X185	25	2266	0,106	444
12051G7L010M71	1X240	27,8	2881	0,0801	522
12051G7L010M72	1X300	30,8	3551	0,0641	601
12051G7L010M73	1X400	34,5	4648	0,0486	690
12051G73020M10	2X1	9,4	132	18,1	11
12051G73020M15	2X1,5	9,9	151	12,1	20
12051G73020M25	2X2,5	10,8	189	7,41	26
12051G73020M40	2X4	11,8	239	4,61	34
12051G73020M60	2X6	13	298	3,08	44
12051G73020M61	2X10	15,5	457	1,83	61
12051G73020M62	2X16	17,7	628	1,21	82
12051G73020M63	2X25	20,7	884	0,78	108
12051G73020M64	2X35	23	1134	0,554	133
12051G73020M65	2X50	26,7	1555	0,386	155
12051G73030M10	3X1	9,8	148	18,1	9
12051G73030M15	3X1,5	10,3	176	12,1	16
12051G72031M15	3G1,5	10,3	176	12,1	20
12051G73030M25	3X2,5	11,3	220	7,41	21
12051G72031M25	3G2,5	11,3	220	7,41	26
12051G73030M40	3X4	12,5	288	4,61	28
12051G72031M40	3G4	12,5	288	4,61	34
12051G73030M60	3X6	13,9	385	3,08	36
12051G72031M60	3G6	13,9	385	3,08	44
12051G73030M61	3X10	16,4	583	1,83	50
12051G72031M61	3G10	16,4	583	1,83	61
12051G73030M62	3X16	18,8	826	1,21	67
12051G72031M62	3G16	18,8	826	1,21	82
12051G73030M63	3X25	22,1	1174	0,78	89
12051G73030M64	3X35	24,5	1529	0,554	110
12051G73030M65	3X50	28,5	2102	0,386	137
12051G73030M66	3X70	32,8	2837	0,272	169

# GAALSHIP HF 1000 A

ARMoured, POWER & CONTROL CABLE



ELETTROTEK KABEL® GAALSHIP® HF 1000 A

Part number	No. of cores x cross section n x mm <sup>2</sup>	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45°C (A)
12051G73030M67	3X95	37	3762	0,206	205
12051G73030M68	3X120	41,4	4701	0,161	237
12051G73030M69	3X150	45,4	5794	0,129	272
12051G73030M70	3X185	50,7	7057	0,106	311
12051G73030M71	3X240	56,7	8890	0,0801	365
12051G73030M72	3X300	63,3	10968	0,0641	421
12051G73040M10	4X1	10,5	177	18,1	13
12051G73040M15	4X1,5	11,2	210	12,1	16
12051G73040M15	4X1,5	11,2	210	12,1	16
12051G72041M15	4G1,5	11,2	210	12,1	16
12051G73040M25	4X2,5	12,3	272	7,41	21
12051G73040M25	4X2,5	12,3	272	7,41	21
12051G72041M25	4G2,5	12,3	272	7,41	21
12051G73040M40	4X4	13,7	358	4,61	28
12051G72041M40	4G4	13,7	358	4,61	28
12051G73040M60	4X6	15,5	325	3,08	36
12051G72041M60	4G6	15,5	325	3,08	36
12051G73040M61	4X10	17,9	499	1,83	50
12051G72041M61	4G10	17,9	499	1,83	50
12051G73040M62	4X16	20,6	739	1,21	67
12051G72041M62	4G16	20,6	739	1,21	67
12051G73040M63	4X25	24,2	1129	0,78	89
12051G73040M64	4X35	27	1530	0,554	110
12051G73040M65	4X50	31,5	2141	0,386	137
12051G73040M66	4X70	36,6	3018	0,272	169
12051G73040M67	4X95	40,7	4045	0,206	205
12051G73040M68	4X120	45,7	5052	0,161	237
12051G73040M69	4X150	50,3	6253	0,129	272
12051G73040M70	4X185	56,2	7634	0,106	311
12051G73040M70	4X240	62,9	9838	0,0801	365
12051G73050M10	5X1	11,4	89	18,1	13
12051G73050M15	5X1,5	12,1	118	12,1	16
12051G72051M15	5G1,5	12,1	118	12,1	16
12051G73050M25	5X2,5	13,4	173	7,41	21
12051G72051M25	5G2,5	13,4	173	7,41	21
12051G73050M40	5X4	15,3	284	4,61	28
12051G72051M40	5G4	15,3	284	4,61	28
12051G73050M60	5X6	16,9	388	3,08	36
12051G72051M60	5G6	16,9	388	3,08	36
12051G73050M61	5X10	19,6	609	1,83	50
12051G72051M61	5G10	19,6	609	1,83	50
12051G73050M62	5X16	22,6	912	1,21	67
12051G72051M62	5G16	22,6	912	1,21	67
12051G73050M63	5X25	26,7	1390	0,78	89

# GAALSHIP HF 1000 A

ARMoured, POWER & CONTROL CABLE



ELETTROTEK KABEL® GAALSHIP® HF 1000 A

Part number	No. of cores x cross section n x mm <sup>2</sup>	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)	Current rating in open air at 45°C (A)
12051G73050M64	5X35	29,9	1891	0,554	110
12051G73050M65	5X50	34,9	2648	0,386	137
12051G73050M66	5X70	40,6	3740	0,272	169
12051G73050M67	5X95	45,3	5003	0,206	172
12051G73050M68	5X120	50,8	6259	0,161	199
12051G73050M69	5X150	55,9	7751	0,129	228
12051G73050M70	5X185	62,5	9501	0,106	261
12051G71070M10	7X1	12	115	18,1	8
12051G71070M15	7X1,5	12,7	152	12,1	10
12051G71070M25	7X2,5	14,5	258	7,41	14
12051G71100M10	10X1	14,7	188	18,1	7
12051G71100M15	10X1,5	15,8	241	12,1	9
12051G71100M25	10X2,5	17,5	346	7,41	12
12051G71120M10	12X1	15,7	212	18,1	7
12051G71120M15	12X1,5	16,7	276	12,1	9
12051G71120M25	12X2,5	18,6	404	7,41	11
12051G71140M10	14X1	16,4	234	18,1	6
12051G71140M15	14X1,5	17,6	317	12,1	8
12051G71140M25	14X2,5	19,5	459	7,41	11
12051G71160M10	16X1	17,3	258	18,1	6
12051G71160M15	16X1,5	18,5	350	12,1	8
12051G71160M25	16X2,5	20,5	522	7,41	10
12051G71190M10	19X1	18,1	301	18,1	6
12051G71190M15	19X1,5	19,4	397	12,1	7
12051G71190M25	19X2,5	21,7	599	7,41	10
12051G71240M10	24X1	20,7	368	18,1	5
12051G71240M15	24X1,5	22,5	490	12,1	7
12051G71240M25	24X2,5	25	740	7,41	9
12051G71270M10	27X1	21,6	400	18,1	5
12051G71270M15	27X1,5	23,2	534	12,1	7
12051G71270M25	27X2,5	25,9	815	7,41	9
12051G71300M10	30X1	22,3	432	18,1	5
12051G71300M15	30X1,5	24,1	596	12,1	6
12051G71300M25	30X2,5	26,9	904	7,41	8
12051G71370M10	37X1	24,1	520	18,1	5
12051G71370M15	37X1,5	25,9	704	12,1	6
12051G71370M25	37X2,5	28,9	1083	7,41	8

## NOTE(S)

OTHER DIMENSIONS AND COLORS AVAILABLE ON REQUEST.