

GAALSHIP® HF 1000 A EMC

Armoured, power and control cable, EMC, 0,6/1 kV



ELETTROTEK KABEL® GAALSHIP® HF 1000 A EMC



Applications:

EMC power and control cables for fixed electrical installations aboard ships, not subject to mechanical risk 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:	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
Fillers (if any):	Halogen free compound
Inner sheath:	Halogen free compound or synthetic tape
Armour:	Plain annealed copper wires braid + 100% coverage plain annealed copper tape and drain wire acc. to IEC 60092-350
Outer sheath:	Black, Orange or Green*, Halogen free thermoplastic compound type SHF1, acc. to IEC 60092-360, Thickness acc. to IEC 60092-353 *Black or Green= power Orange = control, see Part. no. on the 7th number for the outer sheath color "7" = Black (RAL 9004) "G" = Orange (RAL 2003) "E" = Green (RAL 6018)
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 1000 A EMC cross nominal section, 0,6/1 kV, IEC 60092-353 IEC 60332-3-22 A48 production date. Progressive meter marking.

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

Type Approvals/Certificates:

RINA (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:



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

Features:

Sheathing materials acc. to: IEC 60092-360
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
On request class 5 for sections up to 10 mm²
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 tinned annealed copper wire braid armour

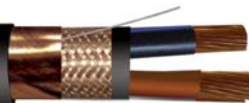
GAALSHIP® MARINE CABLES

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Part no.	No. of cores x cross section n x mm ²	Outer diameter ca.mm			Cable weight approx. kg/km	Max. resistance of conductors at 20°C (Ohm/km)	Current rating in open air at 45°C (A)	Reactance approx. (Ohm/km)		Impedance approx. (Ohm/km)				Short circuit rating I sec. (kA)
		Min.	Nom.	Max.				50 Hz	60 Hz	at 20°C		at 90°C		
										50 Hz	60 Hz	50 Hz	60 Hz	
12091G73037M63	3 x 25 + 3 G 6	26,1	30,6	33	1296	0,780 / 3,08	89	0,074	0,089	0,784	0,785	0,997	0,999	3,75
12091G73037M65	3 x 50 + 3 G 10	31,3	35,8	38,4	2374	0,386 / 1,83	137	0,071	0,085	0,392	0,395	0,497	0,500	7,20
12091G73037M66	3 x 70 + 3 G 16	36,6	41,1	43,8	3263	0,272 / 1,21	169	0,070	0,084	0,281	0,285	0,354	0,357	10,10
12091G73037M67	3 x 95 + 3 G 16	41,2	45,7	48,5	4113	0,206 / 1,21	205	0,069	0,083	0,217	0,222	0,272	0,275	13,70
12091G72041M61	4 G 10	16	18,5	20,4	874	1,83	50	0,078	0,094	1,832	1,832	2,335	2,335	1,55
12091G72041M60	4 G 6	13	15,2	17,1	646	3,08	36	0,083	0,100	3,081	3,082	3,928	3,929	0,95

Other dimensions and colors available on request.