

GAALSHIP® HF 250 OSA FR

Pairs/triples twisted cables for telecommunication and instrumentation, overall screened, armoured and fire resistant



ELETTROTEK KABEL® GAALSHIP® HF 250 OSA FR



Applications:

Fire resistant instrumentation cables for fixed electrical installations aboard ships, screened against electromagnetic interferences, complying with IEC 60092-352

Construction:

Conductor:	Plain annealed copper or Tinned annealed copper conductor Cl. 2, acc. to IEC 60228, DIN VDE 0295
Insulation:	Fire resistant tape + GAALTHERM® 595
Cores color:	Pair: black- light blue Triple: black- light blue - brown
Stranding:	Core laid-up together in pairs/triples laying up of pairs/triples
Overall screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire and synthetic tape
Wrapping:	Synthetic tape
Armour:	Plain annealed copper wires braid acc. to IEC 60092-350
Outer sheath:	Orange (RAL 2003), halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL GAALSHIP HF 250 OSA FR cross nominal section, 150/250 kV, IEC 60092-376 IEC 60331 A48 production date. Progressive meter marking.

Technical data:

Nominal voltage:	150/250 V
Temperature range:	-40°C up to +90°C
<i>Installation temp.:</i>	-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:



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:

IEC 60332-3-22 + IEC 60332-1-2



Halogen free acc. to:

IEC 60754 -1-2



Smoke emission properties acc. to:

IEC 61034 -1-2

Features:

Sheathing and insulating materials acc. to IEC 60092-360
Design guidelines acc. to: IEC 60092-350/376
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 acc. to IEC 60228
On request tinned annealed copper wire braid armour

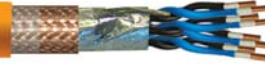
GAALSHIP® MARINE CABLES

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ELETTROTEK KABEL® GAALSHIP® HF 250 OSA FR



Part no.	No. of pairs/triples 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)	Capacitance approx. (nF/km)	Inductance approx. (mH/km)	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	
11090CGX013M07	1 x 3 x 0,75	7,5	9,0	10,5	115	26	11	65	0,6	0,188	0,226	26,3	26,3	33,54	33,54	0,11
11090CGX033M07	3 x 3 x 0,75	13,1	14,6	16,1	281	26	7	65	0,6	0,188	0,226	26,3	26,3	33,54	33,54	0,11
11090CGX043M07	4 x 3 x 0,75	14,3	15,8	17,3	335	26	7	65	0,6	0,188	0,226	26,3	26,3	33,54	33,54	0,11
11090CGX073M07	7 x 3 x 0,75	17,3	18,8	20,8	473	26	7	65	0,6	0,188	0,226	26,3	26,3	33,54	33,54	0,11
11090CGX123M07	12 x 3 x 0,75	22,4	24,9	27,4	752	26	6	65	0,6	0,188	0,226	26,3	26,3	33,54	33,54	0,11
11090CGX013M10	1 x 3 x 1	7,9	9,4	10,9	130	19,2	13	60	0,6	0,188	0,226	19,3	19,3	24,61	24,61	0,14
11090CGX033M10	3 x 3 x 1	13,8	15,3	16,8	318	19,2	9	60	0,6	0,188	0,226	19,3	19,3	24,61	24,61	0,14
11090CGX043M10	4 x 3 x 1	15,3	16,8	18,3	391	19,2	9	60	0,6	0,188	0,226	19,3	19,3	24,61	24,61	0,14
11090CGX073M10	7 x 3 x 1	18,5	20,0	22	559	19,2	9	60	0,6	0,188	0,226	19,3	19,3	24,61	24,61	0,14
11090CGX123M10	12 x 3 x 1	23,8	26,3	28,8	877	19,2	8	60	0,6	0,188	0,226	19,3	19,3	24,61	24,61	0,14
11090CGX013M15	1 x 3 x 1,5	8,9	10,4	11,9	160	12,8	16	55	0,55	0,173	0,207	12,9	12,9	16,45	16,45	0,21
11090CGX033M15	3 x 3 x 1,5	15,9	17,4	18,9	406	12,8	11	55	0,55	0,173	0,207	12,9	12,9	16,45	16,45	0,21
11090CGX043M15	4 x 3 x 1,5	17,5	19,0	20,5	496	12,8	11	55	0,55	0,173	0,207	12,9	12,9	16,45	16,45	0,21
11090CGX073M15	7 x 3 x 1,5	21,3	22,8	24,8	732	12,8	11	55	0,55	0,173	0,207	12,9	12,9	16,45	16,45	0,21
11090CGX123M15	12 x 3 x 1,5	27,8	30,3	32,8	1176	12,8	10	55	0,55	0,173	0,207	12,9	12,9	16,45	16,45	0,21

Other dimensions and colors available on request.