

GAALSHIP® HF 250 ISOSA FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOSA FR WSR



Applications:

Fire resistant and water spray instrumentation cables for fixed electrical installations aboard ships, screened against electromagnetic interferences, suitable for the signal and telecommunication 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, acc. to IEC 60228, DIN VDE 0295
Insulation:	MICA glass tape + GAALTHERM® 597
Cores color:	pair: black- light blue triple: black- light blue - brown
Stranding:	Core laid-up together in pairs/triples
Individual screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire
Overall screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire
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 SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 ISOSA FR WSR, cross nominal section sqmm, 150/250 V, part n°, IEC 60092-376, IEC 60332-3-22, IEC 60331, BS 8491, production plant, batch n°, production date, CE RoHS, 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 / 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)
RMRS (Russian Maritime Register 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:
IEC 60332-1-2,
IEC 60332-3-22



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 CSA C22.2 No. 0.3-09 (-40°C)
Cold bend impact at low temperatures
acc. to CSA C22.2 No. 0.3-09 (-35°C)
On request class 5 conductor acc. to IEC 60228

GAALSHIP® MARINE CABLES

GAALSHIP® HF 250 ISOSA FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOSA FR WSR



Part no.	No. of pairs/triples x cross section n x mm ²	Outer sheath color	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)	Short circuit rating I sec. (kA)
			Min.	Nom.	Max.				
11210CGX052M05	5 x 2 x 0,5	Orange	20,6	22,1	23,6	602	41,6	5	0,07
11210CGX022M07	2 x 2 x 0,75	Orange	16,8	18,3	19,8	440	26,3	10	0,11
11210CGX042M07	4 x 2 x 0,75	Orange	19,6	21,1	22,6	547	26,3	7	0,11
11210CGX052M07	5 x 2 x 0,75	Orange	21,5	23	24,5	653	26,3	7	0,11
11210CGX072M07	7 x 2 x 0,75	Orange	23	25	26,5	763	26,3	7	0,11
11210CGX102M07	10 x 2 x 0,75	Orange	27,8	30,3	32,8	1074	26,3	7	0,11
11210CGX142M07	14 x 2 x 0,75	Orange	31,8	34,3	36,8	1307	26,3	6	0,11
11210CGX242M07	24 x 2 x 0,75	Orange	41,5	44	46,5	2155	26,3	5	0,11
11210CGX372M07	37 x 2 x 0,75	Orange	49,4	51,9	54,4	2938	26,3	5	0,11
11210CGX032M10	3 x 2 x 1	Orange	18,7	20,2	21,7	507	19,3	10	0,14
11210CGX042M10	4 x 2 x 1	Orange	20,5	22	23,5	612	19,3	8	0,14
11210CGX072M10	7 x 2 x 1	Orange	24	26	27,5	847	19,3	8	0,14
11210CGX022M15	2 x 2 x 1,5	Orange	19,3	20,8	22,3	568	19,3	16	0,21
11210CGX042M15	4 x 2 x 1,5	Orange	22,6	24,1	25,6	719	12,9	11	0,21
11210CGX052M15	5 x 2 x 1,5	Orange	24,8	26,3	27,8	867	12,9	11	0,21
11210CGX072M15	7 x 2 x 1,5	Orange	26,7	28,7	30,2	1022	12,9	11	0,21
11210CGX082M15	8 x 2 x 1,5	Orange	31,5	33,5	35	1234	12,9	11	0,21
11210CGX102M15	10 x 2 x 1,5	Orange	32,9	34,9	36,4	1456	12,9	11	0,21
11210CGX122M15	12 x 2 x 1,5	Orange	35,8	38,3	40,8	1704	12,9	11	0,21
11210CGX192M15	19 x 2 x 1,5	Orange	42,3	44,8	47,3	2376	12,9	9	0,21
11210CGX073M07	7 x 3 x 0,75	Orange	26,2	27,7	29,7	942	26,3	7	0,11
11210CGX073M10	7 x 3 x 1	Orange	27,3	28,8	30,8	1054	19,3	8	0,14

Other dimensions and colors available on request.