

GAALSHIP® HF 250 ISA FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISA 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 02955
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
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 ISA 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.

Type Approvals/Certificates:

RINA / RINAMIL (Registro Italiano Navale)
BV (Bureau Veritas)
LR (Lloyd's Register)
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

Technical data:

Nominal voltage:	150/250 V
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 60092-376
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® HF 250 ISA FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISA 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.				
11250CGX052M05	5 x 2 x 0,5	Orange	20	21,5	23	564	41,6	5	0,07
11250CGX012M07	1 x 2 x 0,75	Orange	10,2	11,7	13,2	194	26,3	12	0,11
11250CGX022M07	2 x 2 x 0,75	Orange	16,4	17,9	19,4	415	26,3	10	0,11
11250CGX042M07	4 x 2 x 0,75	Orange	19,2	20,7	22,2	519	26,3	7	0,11
11250CGX052M07	5 x 2 x 0,75	Orange	21,1	22,6	24,1	623	26,3	7	0,11
11250CGX072M07	7 x 2 x 0,75	Orange	22,4	24,4	25,9	719	26,3	7	0,11
11250CGX102M07	10 x 2 x 0,75	Orange	27,7	29,7	31,2	1023	26,3	7	0,11
11250CGX142M07	14 x 2 x 0,75	Orange	31,4	33,9	36,4	1266	26,3	6	0,11
11250CGX242M07	24 x 2 x 0,75	Orange	40,9	43,4	45,9	2080	26,3	5	0,11
11250CGX372M07	37 x 2 x 0,75	Orange	48,8	51,3	53,8	2851	26,3	5	0,11
11250CGX012M10	1 x 2 x 1	Orange	10,6	12,1	13,6	209	19,3	15	0,14
11250CGX032M10	3 x 2 x 1	Orange	18,3	19,8	21,3	477	19,3	10	0,14
11250CGX042M10	4 x 2 x 1	Orange	19,9	21,4	22,9	570	19,3	8	0,14
11250CGX072M10	7 x 2 x 1	Orange	23,6	25,6	27,1	812	19,3	8	0,14
11250CGX012M15	1 x 2 x 1,5	Orange	11,5	13	14,5	242	12,9	19	0,21
11250CGX022M15	2 x 2 x 1,5	Orange	18,9	20,4	21,9	538	12,9	16	0,21
11250CGX042M15	4 x 2 x 1,5	Orange	22,2	23,7	25,2	685	12,9	11	0,21
11250CGX052M15	5 x 2 x 1,5	Orange	24,4	25,9	27,4	831	12,9	11	0,21
11250CGX072M15	7 x 2 x 1,5	Orange	26,3	28,3	29,8	983	12,9	11	0,21
11250CGX082M15	8 x 2 x 1,5	Orange	31,1	33,1	34,6	1191	12,9	11	0,21
11250CGX102M15	10 x 2 x 1,5	Orange	32,5	34,5	36	1411	12,9	11	0,21
11250CGX122M15	12 x 2 x 1,5	Orange	35,2	37,7	40,2	1640	12,9	11	0,21
11250CGX192M15	19 x 2 x 1,5	Orange	41,9	44,4	46,9	2322	12,9	9	0,21
11250CGX122M25	1 x 2 x 2,5	Orange	13	14,5	16	322	8,0	27	0,36
11250CGX013M07	1 x 3 x 0,75	Orange	10,7	12,2	13,7	206	26,3	10	0,11
11250CGX073M07	7 x 3 x 0,75	Orange	25,6	27,1	29,1	895	26,3	7	0,11
11250CGX073M10	7 x 3 x 1	Orange	26,9	28,4	30,4	1016	19,3	8	0,14

Other dimensions and colors available on request.