

GAALSHIP® HF 250 IS FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 IS 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
1st Wrapping:	Glass fiber tape
2nd Wrapping:	Two plain annealed copper / polyester tapes
3rd Wrapping:	Glass fiber tape
Outer sheath:	Halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 IS 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:

IEEC 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 60092-350/376
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

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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.				
11240CGX052M05	5 x 2 x 0,5	Orange	18,7	20,2	21,7	416	41,6	5	0,07
11240CGX012M07	1 x 2 x 0,75	Orange	9,1	10,6	12,1	137	26,3	12	0,11
11240CGX022M07	2 x 2 x 0,75	Orange	14,9	16,4	17,9	288	26,3	10	0,11
11240CGX042M07	4 x 2 x 0,75	Orange	17,8	19,3	20,8	378	26,3	7	0,11
11240CGX052M07	5 x 2 x 0,75	Orange	19,6	21,1	22,6	459	26,3	7	0,11
11240CGX072M07	7 x 2 x 0,75	Orange	21,1	23,1	24,6	549	26,3	7	0,11
11240CGX102M07	10 x 2 x 0,75	Orange	26,4	28,4	29,9	815	26,3	7	0,11
11240CGX142M07	14 x 2 x 0,75	Orange	29,9	32,4	34,9	1011	26,3	6	0,11
11240CGX242M07	24 x 2 x 0,75	Orange	39,2	41,7	44,2	1674	26,3	5	0,11
11240CGX372M07	37 x 2 x 0,75	Orange	47,1	49,6	52,1	2366	26,3	5	0,11
11240CGX012M10	1 x 2 x 1	Orange	9,5	11	12,5	151	19,3	15	0,14
11240CGX032M10	3 x 2 x 1	Orange	16,7	18,2	19,7	335	19,3	10	0,14
11240CGX042M10	4 x 2 x 1	Orange	18,6	20,1	21,6	424	19,3	8	0,14
11240CGX072M10	7 x 2 x 1	Orange	22,1	24,1	25,6	624	19,3	8	0,14
11240CGX012M15	1 x 2 x 1,5	Orange	10,6	12,1	13,6	184	12,9	19	0,21
11240CGX022M15	2 x 2 x 1,5	Orange	17,4	18,9	20,4	390	12,9	16	0,21
11240CGX042M15	4 x 2 x 1,5	Orange	20,8	22,3	23,8	523	12,9	11	0,21
11240CGX052M15	5 x 2 x 1,5	Orange	22,9	24,4	25,9	640	12,9	11	0,21
11240CGX072M15	7 x 2 x 1,5	Orange	24,8	26,8	28,3	774	12,9	11	0,21
11240CGX082M15	8 x 2 x 1,5	Orange	29,6	31,6	33,1	943	12,9	11	0,21
11240CGX102M15	10 x 2 x 1,5	Orange	31,2	33,2	34,7	1167	12,9	11	0,21
11240CGX122M15	12 x 2 x 1,5	Orange	33,5	36	38,5	1286	12,9	11	0,21
11240CGX192M15	19 x 2 x 1,5	Orange	40	42,5	45	1884	12,9	9	0,21
11240CGX122M25	1 x 2 x 2,5	Orange	11,5	13	14,5	222	8,0	27	0,36
11240CGX013M07	1 x 3 x 0,75	Orange	9,8	11,3	12,8	153	26,3	10	0,11
11240CGX073M07	7 x 3 x 0,75	Orange	24,3	25,8	27,8	706	26,3	7	0,11
11240CGX073M10	7 x 3 x 1	Orange	25,4	26,9	28,9	805	19,3	8	0,14

Other dimensions and colors available on request.