

GAALSHIP® HF 250 ISOS FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOS 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
Outer sheath:	Halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 ISOS 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)
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

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.				
11260CGX052M05	5 x 2 x 0,5	Orange	19,1	20,6	22,1	442	41,6	5	0,07
11260CGX022M07	2 x 2 x 0,75	Orange	15,5	17	18,5	317	26,3	10	0,11
11260CGX042M07	4 x 2 x 0,75	Orange	18,3	19,8	21,3	403	26,3	7	0,11
11260CGX052M07	5 x 2 x 0,75	Orange	20	21,5	23	486	26,3	7	0,11
11260CGX072M07	7 x 2 x 0,75	Orange	21,5	23,5	25	578	26,3	7	0,11
11260CGX102M07	10 x 2 x 0,75	Orange	26,8	28,8	30,3	850	26,3	7	0,11
11260CGX142M07	14 x 2 x 0,75	Orange	30,5	33	35,5	1065	26,3	6	0,11
11260CGX242M07	24 x 2 x 0,75	Orange	39,6	42,1	44,6	1722	26,3	5	0,11
11260CGX372M07	37 x 2 x 0,75	Orange	47,5	50	52,5	2422	26,3	5	0,11
11260CGX032M10	3 x 2 x 1	Orange	17,2	18,7	20,2	361	19,3	10	0,14
11260CGX042M10	4 x 2 x 1	Orange	19	20,5	22	452	19,3	8	0,14
11260CGX072M10	7 x 2 x 1	Orange	22,5	24,5	26	656	19,3	8	0,14
11260CGX022M15	2 x 2 x 1,5	Orange	18	19,5	21	426	12,9	16	0,21
11260CGX042M15	4 x 2 x 1,5	Orange	21,3	22,8	24,3	553	12,9	11	0,21
11260CGX052M15	5 x 2 x 1,5	Orange	23,5	25	26,5	684	12,9	11	0,21
11260CGX072M15	7 x 2 x 1,5	Orange	25,2	27,2	28,7	809	12,9	11	0,21
11260CGX082M15	8 x 2 x 1,5	Orange	30	32	33,5	983	12,9	11	0,21
11260CGX102M15	10 x 2 x 1,5	Orange	31,6	33,6	35,1	1209	12,9	11	0,21
11260CGX122M15	12 x 2 x 1,5	Orange	33,9	36,4	38,9	1331	12,9	11	0,21
11260CGX192M15	19 x 2 x 1,5	Orange	40,4	42,9	45,4	1935	12,9	9	0,21
11260CGX073M07	7 x 3 x 0,75	Orange	24,7	26,2	28,2	737	26,3	7	0,11
11260CGX073M10	7 x 3 x 1	Orange	26	27,5	29,5	853	19,3	8	0,14

Other dimensions and colors available on request.