

## GAALSHIP® HF 250 OS FR WSR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 OS 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

**Overall screen:** Aluminium/polyester tape with tinned annealed copper stranded drain wire

**1<sup>st</sup> Wrapping:** Glass fiber tape

**2<sup>nd</sup> Wrapping:** Two plain annealed copper / polyester tapes

**3<sup>rd</sup> 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 OS 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

**Installation temp.:** -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

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Part no.	No. of pairs/triples x cross section n x mm <sup>2</sup>	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.				
11200CGX052M05	5 x 2 x 0,5	Orange	16,8	18,3	19,8	348	41,6	5	0,07
11200CGX012M07	1 x 2 x 0,75	Orange	9,1	10,6	12,1	138	26,3	12	0,11
11200CGX022M07	2 x 2 x 0,75	Orange	10,7	12,2	13,7	178	26,3	10	0,11
11200CGX042M07	4 x 2 x 0,75	Orange	16,1	17,6	19,1	323	26,3	7	0,11
11200CGX052M07	5 x 2 x 0,75	Orange	17,6	19,1	20,6	388	26,3	7	0,11
11200CGX072M07	7 x 2 x 0,75	Orange	18,9	20,9	22,4	455	26,3	7	0,11
11200CGX102M07	10 x 2 x 0,75	Orange	23,5	25,5	27	673	26,3	7	0,11
11200CGX142M07	14 x 2 x 0,75	Orange	26,5	29	31,5	821	26,3	6	0,11
11200CGX242M07	24 x 2 x 0,75	Orange	34,4	36,9	39,4	1327	26,3	5	0,11
11200CGX372M07	37 x 2 x 0,75	Orange	41,4	43,9	46,4	1851	26,3	5	0,11
11200CGX012M10	1 x 2 x 1	Orange	9,5	11	12,5	152	19,3	15	0,14
11200CGX032M10	3 x 2 x 1	Orange	15,3	16,8	18,3	296	19,3	10	0,14
11200CGX042M10	4 x 2 x 1	Orange	16,8	18,3	19,8	360	19,3	8	0,14
11200CGX072M10	7 x 2 x 1	Orange	19,8	21,8	23,3	513	19,3	8	0,14
11200CGX012M15	1 x 2 x 1,5	Orange	10,6	12,1	13,6	186	12,9	19	0,21
11200CGX022M15	2 x 2 x 1,5	Orange	12,4	13,9	15,4	246	12,9	16	0,21
11200CGX042M15	4 x 2 x 1,5	Orange	18,9	20,4	21,9	452	12,9	11	0,21
11200CGX052M15	5 x 2 x 1,5	Orange	20,9	22,4	23,9	561	12,9	11	0,21
11200CGX072M15	7 x 2 x 1,5	Orange	22,3	24,3	25,8	654	12,9	11	0,21
11200CGX072M15	8 x 2 x 1,5	Orange	26,6	28,6	30,1	799	12,9	11	0,21
11200CGX102M15	10 x 2 x 1,5	Orange	27,8	29,8	31,3	970	12,9	11	0,21
11200CGX122M15	12 x 2 x 1,5	Orange	29,8	32,3	34,8	1059	12,9	11	0,21
11200CGX192M15	19 x 2 x 1,5	Orange	35,7	38,2	40,7	1554	12,9	9	0,21
11200CGX012M25	1 x 2 x 2,5	Orange	11,5	13	14,5	223	8,0	27	0,36
11200CGX013M07	1 x 3 x 0,75	Orange	9,8	11,3	12,8	153	26,3	10	0,11
11200CGX073M07	7 x 3 x 0,75	Orange	21,9	23,4	25,4	606	26,3	7	0,11
11200CGX073M10	7 x 3 x 1	Orange	22,9	24,4	26,4	688	19,3	8	0,14

Other dimensions and colors available on request.