

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)
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.