



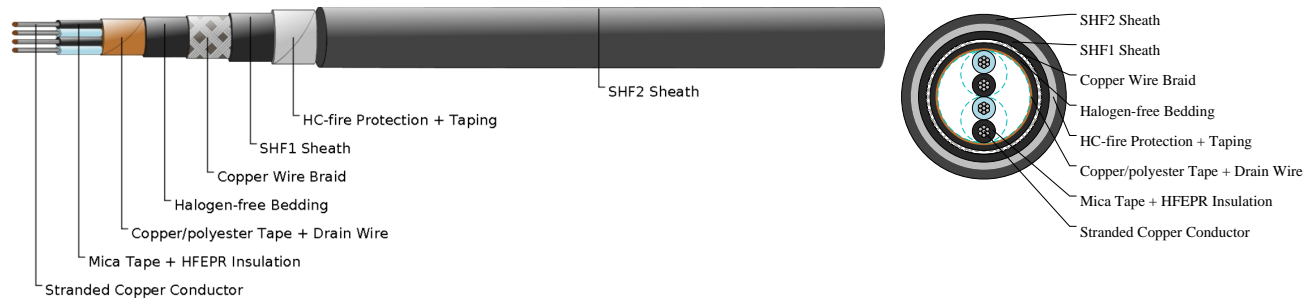
Caledonian

NEK606 Caledonian Offshore & Marine Cables Fire Resistant Instrumentation Cables

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S110 (Formerly S16) BFOU-HCF(c) 250 V



APPLICATIONS

These cables are fire resistant, flame retardant, low smoke and halogen free, used for emergency instrumentation, communication, control and alarm systems that need to be operational during a 1100°C hydrocarbon fire.

STANDARDS

IEC 60092-376
IEC 60092-360
IEC 60332-1
IEC 60332-3-22
IEC 60754-1,2
IEC 61034-1,2
NEK 606:2016
IEC 60331-21

VOLTAGE RATING

250V

CABLE CONSTRUCTION

Conductors: Circular tinned stranded copper wire to IEC 60228 class 2 or class 5.

Insulation: Mica tape + Halogen free EPR compound or Mica tape + XLPE.

Twining: Colour coded cores twisted together.

Collective Shielding: Pairs/triples are layed up and collectively screened by copper backed polyester tape in contact with a stranded tinned copper drain wire. Pairs/triples are numbered with numbered tape or by numbers printed directly on the insulated conductors.

Bedding: Halogen free compound.

Armour: Tinned copper wire braid.

Outer Sheath1: Halogen free thermosetting compound, SHF2.

HC-fire protection: Extruded thermoplastic fire protection compound.

Taping: Lapped glass fibre tape.

Outer Sheath2: Flame retardant halogen-free thermoplastic compound, type SHF1, coloured grey (blue for intrinsically safe).



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MECHANICAL PROPERTIES

Bending Radius: 20×OD (during installation); 12×OD (fixed installed)

Temperature Range: -20°C ~ +90°C

TECHNICAL CHARACTERISTICS

| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum Resistance @20°C | Mutual Capacitance | Nominal Inductance @ 1KHz |
|-------------------------|-------------------------|--------------------------|--------------------|---------------------------|
| mm ² | mm | Ohm/km | nF/km | MH/km |
| 1.5 | 1.6 | 12.9 | 85 | 0.667 |

DIMENSION AND PARAMETERS

| Construction No. of elements×No. of cores in element×Cross section | Nominal Insulation Thickness | Nominal Dia. over Bedding | Nominal Diameter Over Sheath 1 | Approx. Overall Diameter | Approx. Weight |
|--|------------------------------|---------------------------|--------------------------------|--------------------------|----------------|
| mm ² | mm | mm | mm | mm | kg/km |
| 2×2×1.5 | 0.7 | 13.0 | 16.4 | 44.5 | 2400 |