



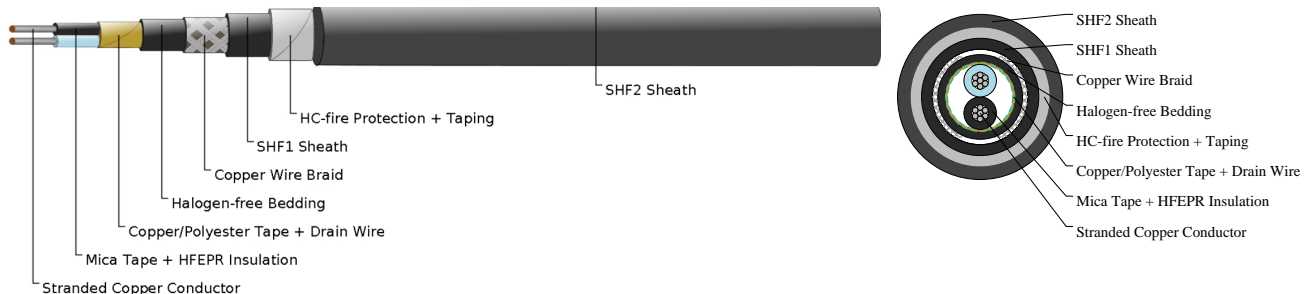
Caledonian

NEK606 Caledonian Offshore & Marine Cables Fire Resistant Instrumentation Cables

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S109 (Formerly S15) BFOU-HCF(i) 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 annealed stranded copper wire to IEC 60228 class 2 or class 5.

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

Twinning: Colour coded cores twisted together.

Individual Shielding: Each pairs/triples are screened by copper backed polyester tape in contact with a stranded tinned copper drain wire and wrapped with polyester tape. 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	100	0.673

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
1×2×1.5	0.7	9.0	13.1	39.5	1880