

NEK606 Caledonian Offshore & Marine Cables

Fire Resistant Instrumentation Cables



www.caledonian-cables.co.uk

S16 BFOU-HCF(c) 250 V

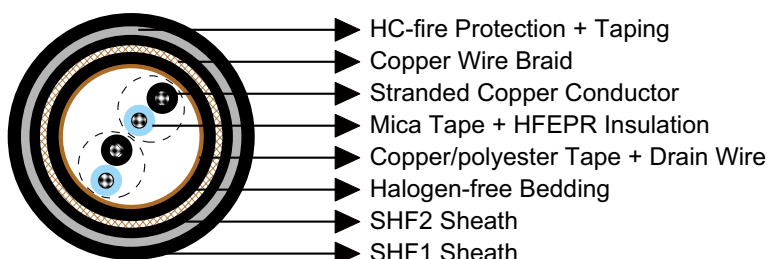
Applications

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 60092-351
- IEC 60092-359
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004



Construction

- **Conductors:** Circular tinned stranded copper wire to IEC 60228 class 2.
- **Insulation:** Mica tape + Halogen free EPR compound.
- **Twinning:** Colour coded cores twisted together.
- **Collective Shielding:** Pairs/triples are laid 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).

Electrical Characteristics

Nominal Cross Section Area	mm ²	1.5
Nominal Conductor Diameter	mm	1.6
Maximum Resistant@20°C	Ω/km	12.9
Mutual Capacitance	nF/km	85
Nominal Inductance@1KHz	MH/km	0.667
Operating Voltage	V	250

Mechanical and Thermal Properties

- Bending Radius: 20×OD (during installation); 12×OD (fixed installed)
- Temperature Range: -20°C ~ +90°C

Dimensions and Weight

Construction No. of elements×No. of cores in element×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Diameter Over Bedding mm	Nominal Diameter Over Sheath1 mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2×2×1.5	0.7	13.0	16.4	44.5	2400
4×2×1.5	0.7	15.0	19.9	46.5	2650
8×2×1.5	0.7	20.5	25.3	53.0	3570
12×2×1.5	0.7	23.5	29.6	57.0	4160

