



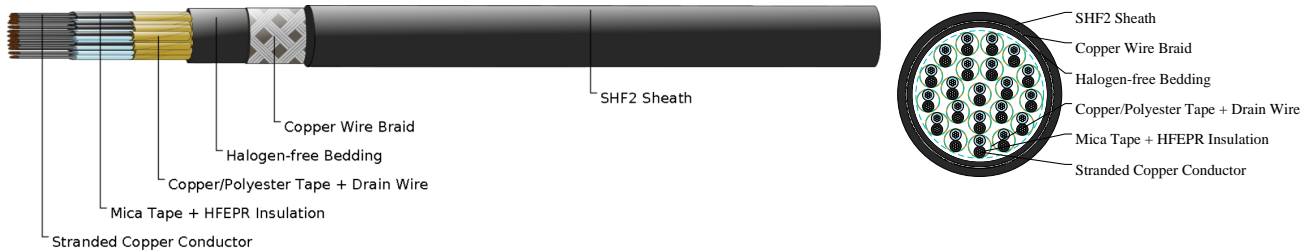
## Caledonian

### NEK606 Caledonian Offshore & Marine Cables Fire Resistant Instrumentation Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

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#### S103 (Formerly S3 or S3/S7) BFOU(i) 250V



#### APPLICATIONS

These cables are flame retardant, low smoke, halogen free and mud resistant, used for instrumentation, communication, control and alarm systems.

#### 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 Sheath: Halogen free thermosetting compound, SHF2 (formerly TYPE S3). Halogen free MUD resistant thermosetting compound, SHF MUD (for formerly TYPE S3/S7), coloured grey (blue for intrinsically safe).

#### MECHANICAL PROPERTIES

Bending Radius: 8×OD (during installation); 6×OD (fixed installed)

Temperature Range: -20°C ~ +90°C

#### TECHNICAL CHARACTERISTICS



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Nom. Cross-Section Area	Nom. Conductor Diameter	Maximum Resistance @20°C	Mutual Capacitance	Nominal Inductance @ 1KHz	Maximum L/ R @ 1KHz
mm <sup>2</sup>	mm	Ohm/km	nF/km	MH/km	μH/Ω
2.5	2.0	8.02	110	0.629	55

#### DIMENSION AND PARAMETERS

Construction No. of elements×No. of cores in element×Cross section	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. Overall Diameter	Approx. Weight
mm <sup>2</sup>	mm	mm	mm	mm	kg/km
21×2×2.5	0.7	1.4	2.4	46.1	3375