



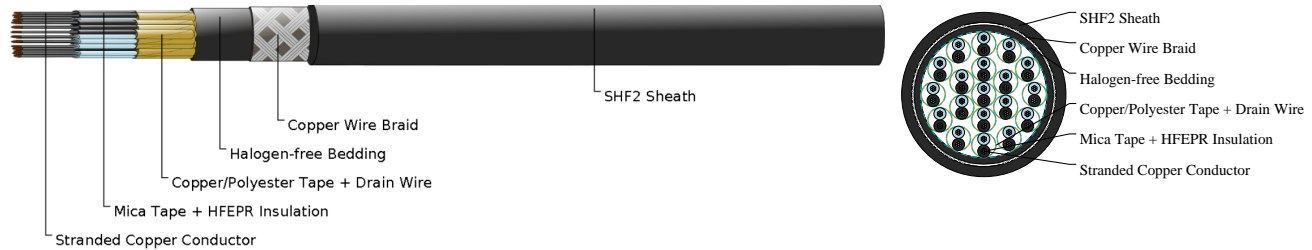
## Caledonian

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

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

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

#### 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                |
| 0.75                    | 1.1                     | 26.3                     | 85                 | 0.731                     | 20                  |

#### 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          |
| 19×2×0.75  | 0.6                          | 1.2                            | 1.9                            | 32.7                     | 1575           |