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

Labels (left diagram):
- SHF2 Sheath
- Copper Wire Braid
- Halogen-free Bedding
- Copper/Polyester Tape + Drain Wire
- Mica Tape + HFEPR Insulation
- Stranded Copper Conductor

Labels (cross-section):
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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 formerlyTYPE S3/S7), coloured grey (blue for intrinsically safe).

MECHANICAL PROPERTIES

Bending Radius: 8×OD (during installation); 6×OD (fixed installed)
Temperature Range: -20℃ ~ +90℃
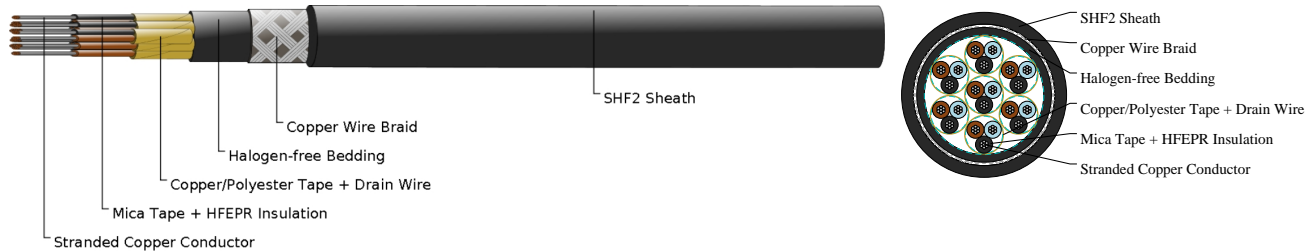
TECHNICAL CHARACTERISTICS

Caledonian

NEK606 Caledonian Offshore & Marine Cables Fire Resistant Instrumentation Cables

www.caledonian-cables.com   marketing@caledonian-cables.com

Nom. Cross-Section Area	Nom. Conductor Diameter	Maximum Resistance @20°C	Mutual Capacitance	Nominal Inductance @ 1KHz	Maximum L/R @ 1KHz
mm²	mm	Ohm/km	nF/km	MH/km	µH/Ω
1.0	1.3	19.3	95	0.691	25

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
mm²	mm	mm	mm	mm	kg/km
7×3×1.0	0.6	1.1	1.7	25.4	1180