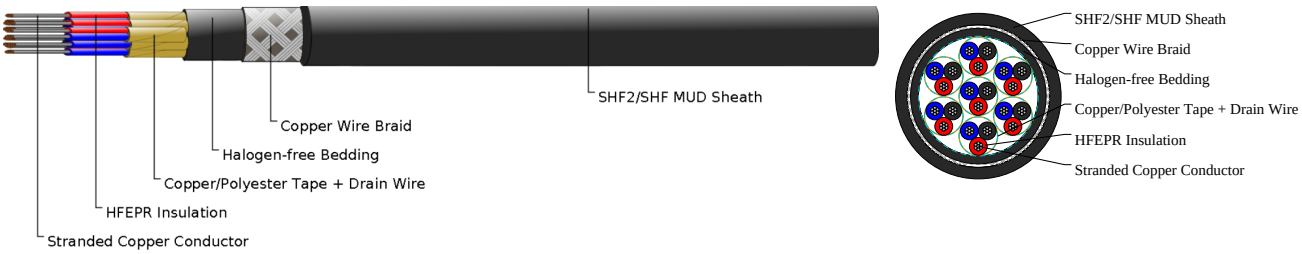
Caledonian

NEK606 Caledonian Offshore & Marine Cables Instrumentation Cables

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

S101 (Formerly S1 or S1/S5) RFOU(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

VOLTAGE RATING

250V

CABLE CONSTRUCTION

Conductors: Circular tinned annealed stranded copper wire to IEC 60228 class 2 or class 5.
Insulation: Halogen free EPR compound or 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 S1). Halogen free MUD resistant thermosetting compound, SHF MUD (formerly TYPE S1/S5), coloured grey (blue for intrinsically safe).

MECHANICAL PROPERTIES

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

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
mm²	mm	Ohm/km	nF/km	MH/km	μH/Ω
1.0	1.3	19.3	100	0.649	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	Nominal Copper Weight
mm²	mm	mm	mm	mm	kg/km
7×3×1.0	0.6	1.1	1.6	23.0	990