



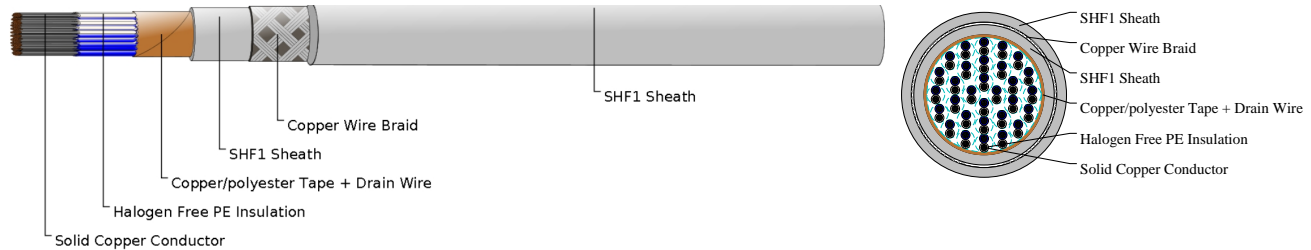
Caledonian

NEK606 Caledonian Offshore & Marine Cables Optical Fibre Cables

www.caledonian-cables.com

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S10 IYOI(c) 60 V



APPLICATIONS

These cables are flame retardant, low smoke and halogen free, used for indoor telecommunication.

STANDARDS

IEC 60092-360

IEC 60332-1

IEC 60332-3-22

IEC 60754-1,2

IEC 61034-1,2

NEK 606:2016

VOLTAGE RATING

60V

CABLE CONSTRUCTION

Conductors: Solid tinned copper, 0.5mm.

Insulation: Halogen-free thermoplastic compound PE.

Twinning: Colour coded cores twisted together. Pairs are cross-stranded to finished cable or 10 pair units. The units are stranded to 20 - 30 - 50 pair cables. 2 pair is stranded as a star quad.

Wrapping: Polyester tape.

Collective Shielding: The cable core is screened by copper backed polyester tape in contact with a 0.5mm solid tinned drain wire.

Bedding: Halogen-free thermoplastic compound, type SHF1, coloured grey.

Armour: Tinned copper wire braid

Outer Sheath: Halogen-free thermoplastic compound, type SHF1, coloured grey.

MECHANICAL PROPERTIES

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

Temperature Range: -10°C ~ +60°C

TECHNICAL CHARACTERISTICS

| Nom. Conductor Diameter | Maximum Resistance @20°C | Mutual Capacitance 1-pair cable | Mutual Capacitance 2-pair cable | Mutual Capacitance | Nominal Inductance @ 1KHz |
|-------------------------|--------------------------|---------------------------------|---------------------------------|--------------------|---------------------------|
|-------------------------|--------------------------|---------------------------------|---------------------------------|--------------------|---------------------------|



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| | | | | 4-pair and above cable | |
|-----|--------|-------|-------|---------------------------|-------|
| mm | Ohm/km | nF/km | nF/km | nF/km | MH/km |
| 0.5 | 95 | 90 | 80 | 70 | 0.61 |

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 ² | mm | mm | mm | mm | kg/km |
| 30×2×0.5 | 0.2 | 1.5 | 1.5 | 17.0 | 430 |