



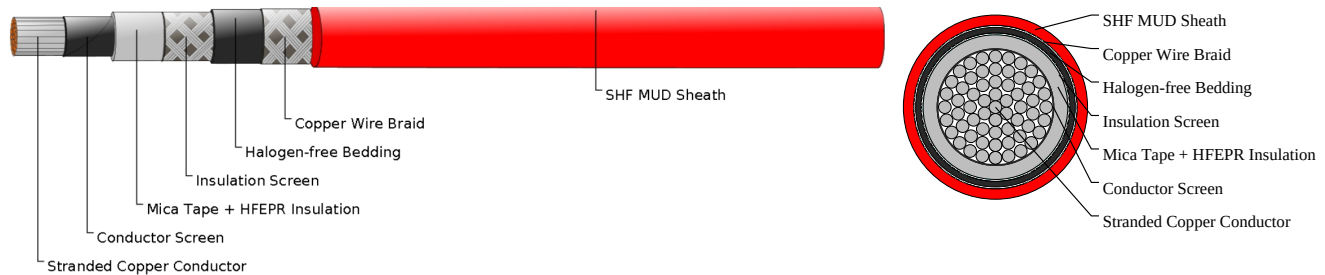
## Caledonian

### NEK606 Caledonian Offshore & Marine Cables Fire Resistant Medium Voltage Power Cables

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

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

#### P107 (Formerly P7 or P7/P14) BFOU 6/10kV



#### APPLICATIONS

These cables are fire resistant, flame retardant, low smoke, halogen free and mud resistant, used for fixed installation for medium voltage power.

#### STANDARDS

IEC 60092-354

IEC 60092-351

IEC 60092-359

IEC 60332-1

IEC 60332-3-22

IEC 60754-1,2

IEC 61034-1,2

NEK 606:2004

IEC 60331-21

#### VOLTAGE RATING

6/10kV

#### CABLE CONSTRUCTION

Conductors: Circular tinned annealed stranded copper to IEC 60228 class 2.

Conductor Screen: Semi conducting material.

Insulation: Mica tape + Halogen free EPR.

Insulation Screen: Semi conducting material and tinned copper wire braid.

Bedding: Halogen free compound.

Armour: Tinned copper wire braid.

Outer Sheath: Halogen free thermosetting compound, SHF2 (for TYPE P7), or halogen free mud resistant thermosetting compound, SHF MUD (for TYPE P7/P14), coloured red.

#### MECHANICAL PROPERTIES

Bending Radius: 15×OD (during installation); 9×OD (fixed installed)

Temperature Range: -20°C ~ +90°C

#### TECHNICAL CHARACTERISTICS



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| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum DC Resistance @20°C | Continuous Current Rating @45°C 1 Core | Short Circuit Current 1s |
|-------------------------|-------------------------|-----------------------------|----------------------------------------|--------------------------|
| mm <sup>2</sup>         | mm                      | Ohm/km                      | A                                      | A                        |
| 500                     | 27.5                    | 0.0369                      | 780                                    | 71540                    |

#### DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | Nominal Insulation Thickness | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Approx. Overall Diameter | Approx. Weight |
|-------------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------|----------------|
| No.×mm <sup>2</sup>                 | mm                           | mm                             | mm                             | mm                       | kg/km          |
| 1×500                               | 3.4                          | 1.4                            | 2.6                            | 52.5                     | 7070           |