



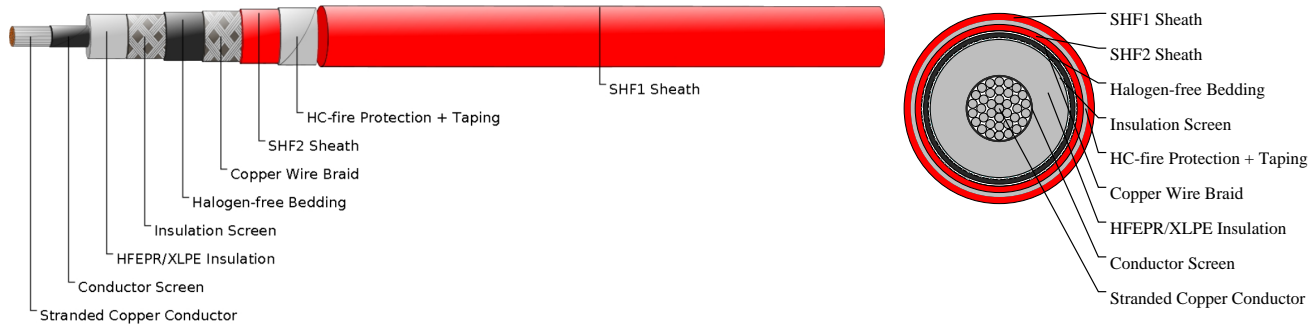
Caledonian

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

www.caledonian-cables.com

marketing@caledonian-cables.com

P117 RFOU-HCF / TFOU-HCF 18/30 (36) kV



APPLICATIONS

These cables are fire resistant, flame retardant, low smoke and halogen free, used for emergency control, power and lighting systems that need to be operational during a 1100°C hydrocarbon fire.

STANDARDS

IEC 60092-354
IEC 60092-360
IEC 60331-21
IEC 60332-1
IEC 60332-3-22
IEC 60754-1,2
IEC 61034-1,2
NEK 606:2016

VOLTAGE RATING

18/30 (36) kV

CABLE CONSTRUCTION

Conductors: Circular tinned annealed stranded copper to IEC 60228 class 2 or class 5.

Conductor Screen: Semi conducting material.

Insulation: Halogen-free EPR or XLPE.

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

Bedding: Halogen free compound.

Armour: Tinned copper wire braid.

Outer Sheath1: Halogen free thermosetting compound, SHF2, coloured red.

HC-fire Protection: Extruded thermoplastic fire protection compound.

Taping: Lapped glass fibre tape.

Outer Sheath2: Flame retardant halogen-free thermoplastic compound, SHF1, coloured red.

MECHANICAL PROPERTIES

Bending Radius: 20×OD (during installation); 12×OD (fixed installed)



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Temperature Range: -20°C ~ +90°C

TECHNICAL CHARACTERISTICS

| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum DC Resistance @20°C | Continuous Current Rating @45°C 1 Core | Short Circuit Current 1s |
|-------------------------|-------------------------|-----------------------------|--|--------------------------|
| mm ² | mm | Ohm/km | A | A |
| 120 | 13.8 | 0.154 | 339 | 17170 |

DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | Nominal Insulation Thickness | Nominal Diameter Over Sheath 1 | Approx. Overall Diameter | Approx. Weight |
|-------------------------------------|------------------------------|--------------------------------|--------------------------|----------------|
| No. × mm ² | mm | mm | mm | kg/km |
| 1 × 120 | 8 | 46 | 78.5 | 7390 |