



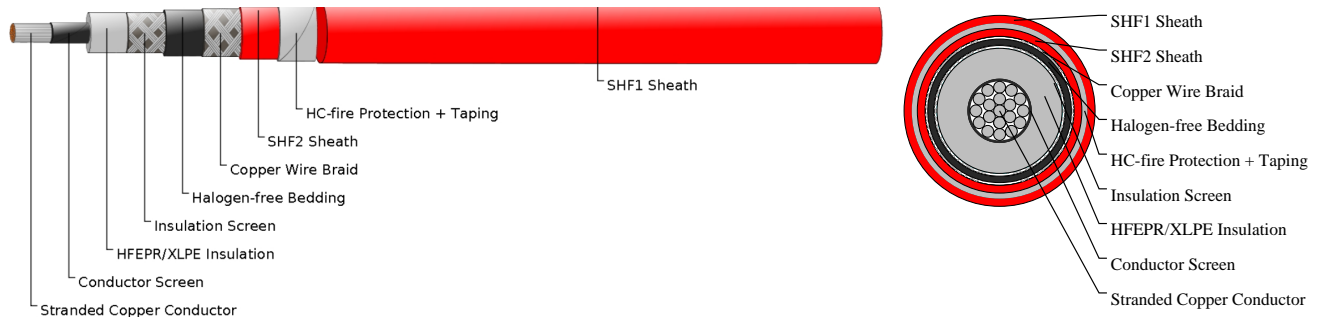
# Caledonian

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

www.caledonian-cables.com

marketing@caledonian-cables.com

### P116 RFOU-HCF / TFOU-HCF 12/20 (24) 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

12/20 (24) 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 <sup>2</sup>	mm	Ohm/km	A	A
70	10.3	0.27	242	10020

### DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Nominal Insulation Thickness	Nominal Diameter Over Sheath 1	Nominal Outer Sheath Thickness	Approx. Overall Diameter	Approx. Weight
No.×mm <sup>2</sup>	mm	mm	mm	mm	kg/km
1×70	5.5	34.6	1.4	103.2	15100