



# Caledonian

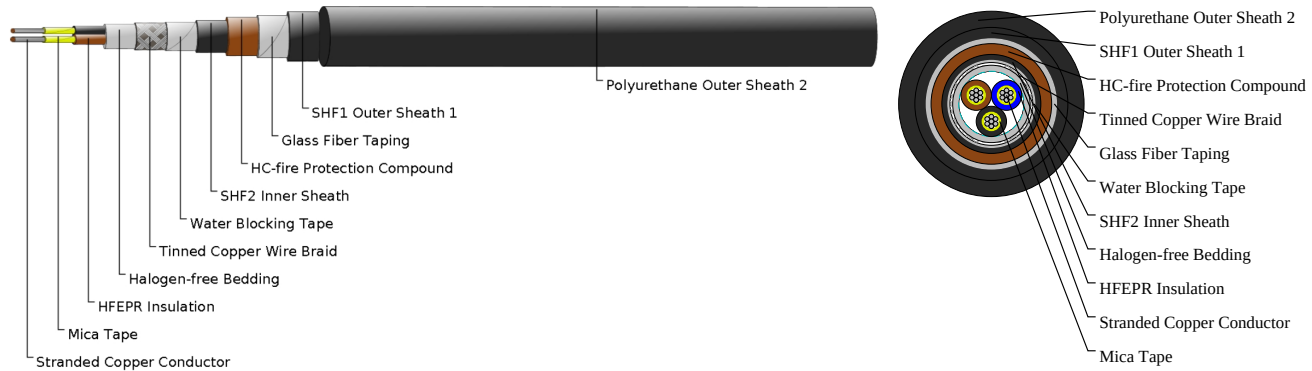
## NEK606 Water Blocked Offshore & Marine Cables

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

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### Fire Resistant Power and Control Cables

#### Water Blocked P34 BFOU-HCF 0.6/1KV 3C4



### APPLICATIONS

These cables are partially water blocked, 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 60092-353

IEC 60092-360

IEC 60332-1

IEC 60332-3-22

IEC 60754-1,2

IEC 61034-1,2

NEK 606

VG 95218 part 29

IEC 60331-21

### VOLTAGE RATING

0.6/1KV

### CABLE CONSTRUCTION

Conductors: Tinned annealed stranded compacted copper to IEC 60228 class 2.

Insulation: Mica tape + Halogen free EPR/XLPE.

Filler: Water blocking fillers, if required.

Bedding: Halogen free compound, PETP wrapping tape will be applied over the bedding, if required.

Armour: Tinned copper wire braid, PETP wrapping tape will be applied over the braiding, if required.

Water Blocking Elements: Water blocking tape and strings for providing longitudinal water tightness.

Inner Sheath: Halogen free thermosetting compound, SHF2.

HC-fire protection: Extruded thermoplastic fire protection compound.

Taping: Lapped glass fibre tape.



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Outer Sheath 1: Flame retardant halogen-free thermoplastic compound, SHF1, coloured black.

Outer Sheath 2: Polyurethane for providing transversal water tightness, PE is optional, but can not meet low smoke standard.

### PHYSICAL AND THERMAL PROPERTIES

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

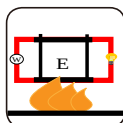
Temperature Range: -20°C ~ +90°C

### TECHNICAL CHARACTERISTICS

| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum Resistance @20°C | Continuous Current Rating @45°C 1 Core | Short Circuit Current 1s |
|-------------------------|-------------------------|--------------------------|----------------------------------------|--------------------------|
| mm <sup>2</sup>         | mm                      | Ohm/km                   | A                                      | A                        |
| 4                       | 2.6                     | 4.7                      | 28                                     | 570                      |

### DIMENSION AND PARAMETERS

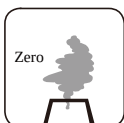
| No. of Cores × Cross-sectional Area | Nominal Insulation Thickness | Nominal Dia. over Bedding | Nominal Inner Sheath Thickness | Nom. Overall Diameter | Cable Weight |
|-------------------------------------|------------------------------|---------------------------|--------------------------------|-----------------------|--------------|
| No. × mm <sup>2</sup>               | mm                           | mm                        | mm                             | mm                    | kg/km        |
| 3×4                                 | 1                            | 13                        | 16.5                           | 45±2                  | 2520         |



Circuit Integrity  
IEC 60331-21



Flame Retardant  
IEC 60332-1



Halogen Free  
IEC 60754-1



Low Corrosivity  
IEC 60754-2



Low Smoke Emission  
IEC 61034-2



Reduced Fire Propagation  
IEC 60332-3-22