



# Caledonian

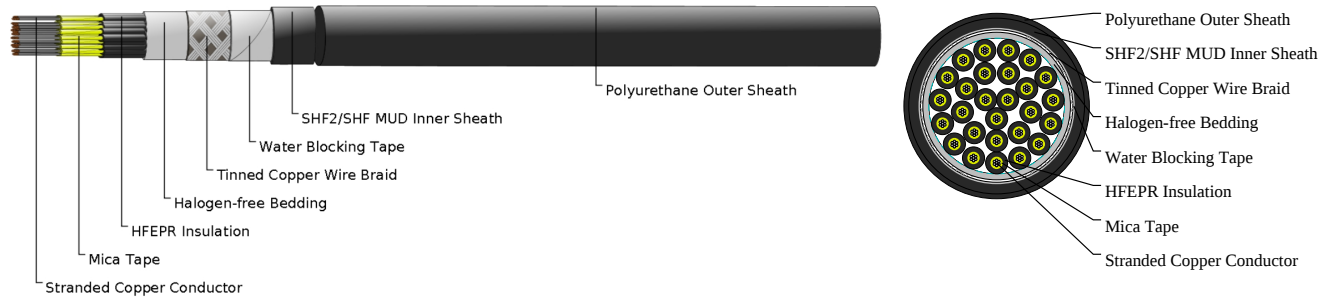
## NEK606 Water Blocked Offshore & Marine Cables

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

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

### Fire Resistant Power and Control Cables

Water Blocked P5 or P5/P12 BFOU 0.6/1KV 27C2.5



### APPLICATIONS

These cables are partially water blocked, fire resistant, flame retardant, low smoke, halogen free and mud resistant, used for control, power and lighting systems.

### 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/Mica tape + 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 (for TYPE P5). Halogen free, mud resistant thermosetting compound, SHF MUD (for TYPE P5/P12), coloured black.

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

### PHYSICAL AND THERMAL PROPERTIES



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

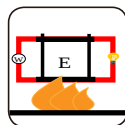
Temperature Range: -20°C ~ +90°C

### TECHNICAL CHARACTERISTICS

| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum Resistance @20°C | Short Circuit Current 1s |
|-------------------------|-------------------------|--------------------------|--------------------------|
| mm <sup>2</sup>         | mm                      | Ohm/km                   | A                        |
| 2.5                     | 2.1                     | 7.56                     | 360                      |

### DIMENSION AND PARAMETERS

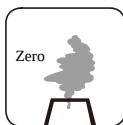
| No. of Cores<br>× Cross-sectional Area | Nominal Insulation Thickness | Nominal Bedding Thickness | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Nom. Overall Diameter | Cable Weight |
|----------------------------------------|------------------------------|---------------------------|--------------------------------|--------------------------------|-----------------------|--------------|
| No.×mm <sup>2</sup>                    | mm                           | mm                        | mm                             | mm                             | mm                    | kg/km        |
| 27×2.5                                 | 1                            | 1.4                       | 2                              | 1                              | 37.4±2                | 2069         |



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