



# Caledonian

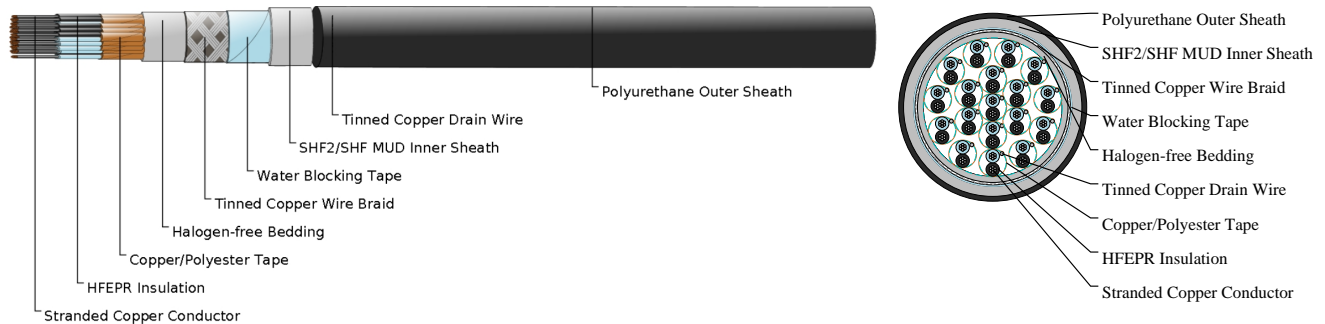
## NEK606 Water Blocked Offshore & Marine Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

### Instrumentation Cables

Water Blocked S1 or S1/S5 RFOU(i) 250V 18x2x1.0



### APPLICATIONS

These cables are partially water blocked, flame retardant, low smoke, halogen free and mud resistant, used for instrumentation, communication, control and alarm systems.

### STANDARDS

IEC 60092-376

IEC 60092-360

IEC 60332-1

IEC 60332-3-22

IEC 60754-1,2

IEC 61034-1,2

NEK 606

VG 95218 part 29

### VOLTAGE RATING

250V

### CABLE CONSTRUCTION

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

Insulation: Halogen free EPR compound.

Twining: Colour coded cores twisted together.

Filler: Water blocking fillers, if required.

Individual Shielding: Each pairs/triples are screened by copper backed polyester tape in contact with a stranded tinned copper drain wire and wrapped with polyester tape. Pairs/triples are numbered with numbered tape or by numbers printed directly on the insulated conductors.

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.



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Inner Sheath: Halogen free thermosetting compound, SHF2 (for TYPE S1). Halogen free MUD resistant thermosetting compound, SHF MUD (for TYPE S1/S5), coloured grey (blue for intrinsically safe).

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

### PHYSICAL AND THERMAL PROPERTIES

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 | Mutual Capacitance | Nominal Inductance @ 1KHz | Maximum L/R @ 1KHz |
|-------------------------|-------------------------|--------------------------|--------------------|---------------------------|--------------------|
| mm <sup>2</sup>         | mm                      | Ohm/km                   | nF/km              | MH/km                     | μH/Ω               |
| 1.0                     | 1.3                     | 19.3                     | 100                | 0.649                     | 25                 |

### DIMENSION AND PARAMETERS

| Construction No. of elements×No. of cores in element×Cross section | Nominal Insulation Thickness | Nominal Bedding Thickness | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Nom. Overall Diameter | Cable Weight |
|--|------------------------------|---------------------------|--------------------------------|--------------------------------|-----------------------|--------------|
| mm <sup>2</sup>  | mm                           | mm                        | mm                             | mm                             | mm                    | kg/km        |
| 18x2x1.0   | 0.6                          | 1.1                       | 1.9                            | 1                              | 32.5±2                | 1575         |



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