



# Caledonian

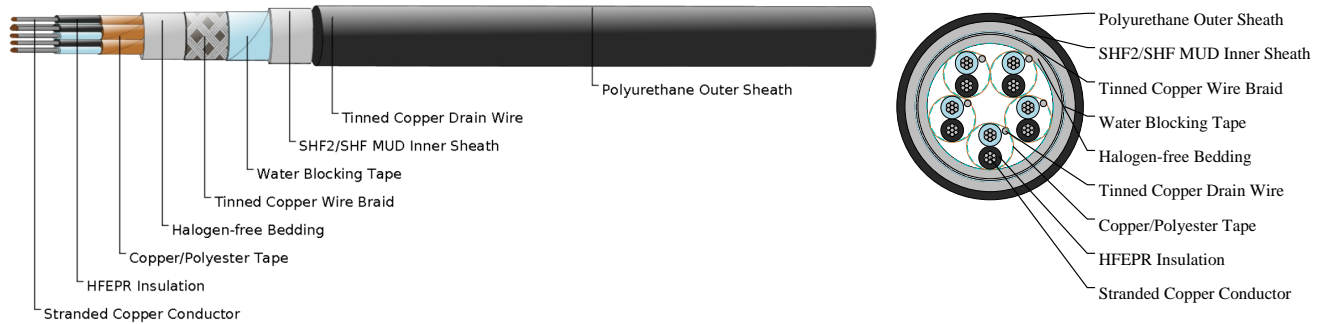
## NEK606 Water Blocked Offshore & Marine Cables

www.caledonian-cables.com

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### Instrumentation Cables

#### Water Blocked S1 or S1/S5 RFOU(i) 250V 5x2x2.5



### 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
2.5	2	8.02	120	0.598	50

### 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
5x2x2.5	0.7	1.1	1.6	1	25.4±2	1113



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