



Caledonian

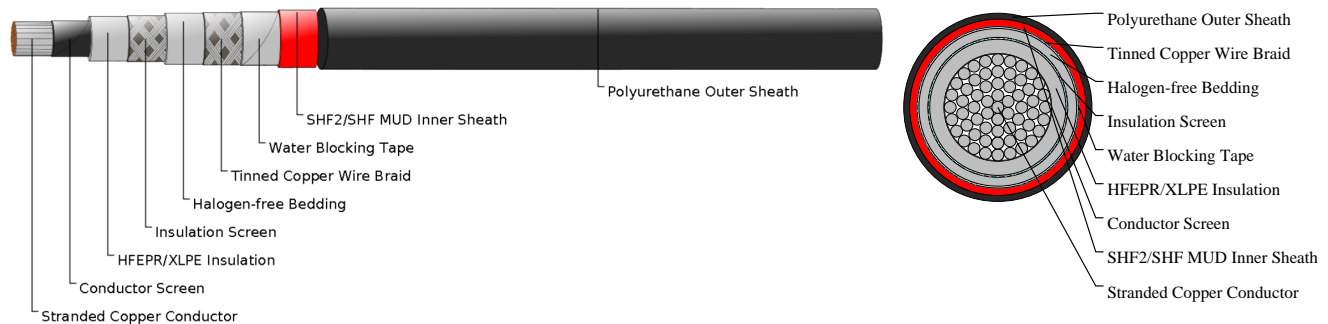
NEK606 Water Blocked Offshore & Marine Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

Medium Voltage Power Cables

Water Blocked P3 or P3/P10 RFOU/TFOU 6/10KV 1C500



APPLICATIONS

These cables are partially water blocked, flame retardant, low smoke, halogen free and mud resistant, used for fixed installation for medium voltage power.

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

VOLTAGE RATING

6/10KV

CABLE CONSTRUCTION

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

Conductor Screen: Semi conducting material.

Insulation: Halogen-free EPR. XLPE can be offered as an option (for TFOU cable).

Insulation Screen: Semi conducting material and tinned copper wire braid.

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 P3), or halogen free mud resistant thermosetting compound, SHF MUD (for TYPE P3/P10), coloured red.

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



Caledonian

NEK606 Water Blocked Offshore & Marine Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

PHYSICAL AND THERMAL PROPERTIES

Bending Radius: 15×OD (during installation); 9×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 ²	mm	Ohm/km	A	A
500	27.6	0.0369	780	71540

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Cable Weight
No. × mm ²	mm	mm	mm	mm	mm	kg/km
1×500	3.4	2.4	1.8	1.6	52.7±2	7718



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