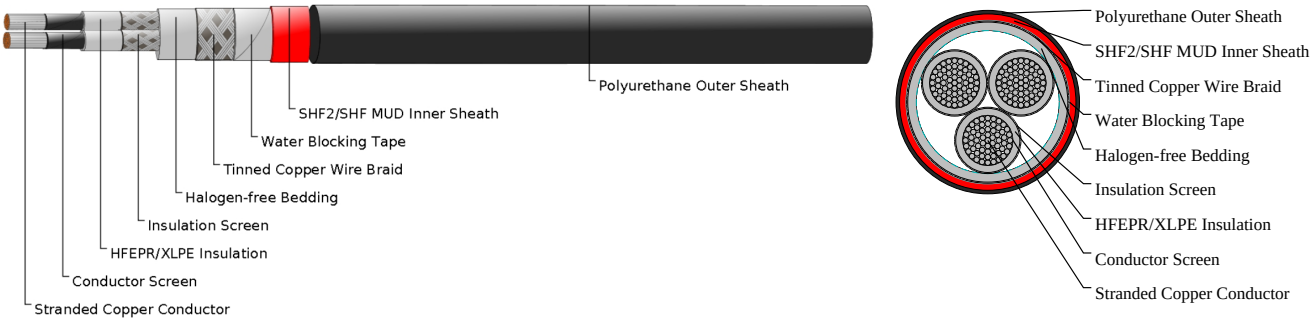
Caledonian

NEK606 Water Blocked Offshore & Marine Cables

www.caledonian-cables.com marketing@caledonian-cables.com

Medium Voltage Power Cables

Water Blocked P2 or P2/P9 RFOU/TFOU 3.6/6KV 3C300



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

0.6/1KV

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 P2), or halogen free mud resistant thermosetting compound, SHF MUD (for TYPE P2/P9), coloured red.

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

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
mm²	mm	Ohm/km	A	A
300	21.9	0.0607	421	42930

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.×mm²	mm	mm	mm	mm	mm	kg/km
3×300	2.5	3.8	2.7	1.6	92.5±2	13587

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