



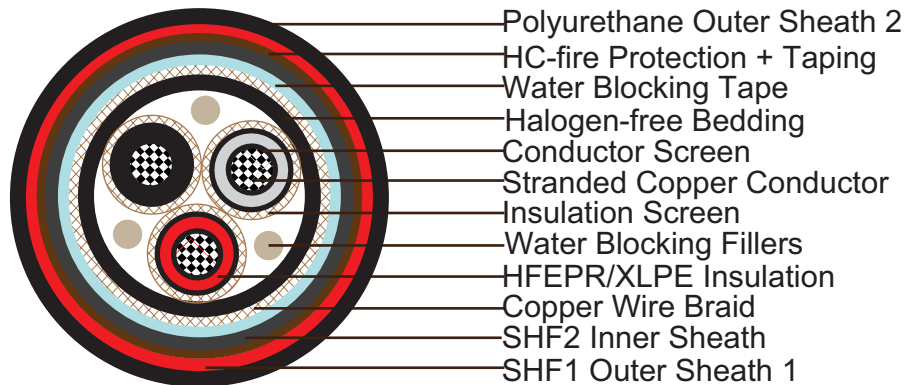
## Water Blocked P30 RFOU-HCF / TFOU-HCF 6/10(12) kV

### Applications

These cables are partially water blocked, fire resistant, flame retardant, low smoke and halogen free, used for emergency control, power and lighting systems that need to be operational during a 1100°C hydrocarbon fire.

### Standards

- IEC 60092-354
- IEC 60092-351
- IEC 60092-359
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004
- VG 95218 part 29



### 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.
- **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, coloured red.
- **HC-fire protection:** Extruded thermoplastic fire protection compound.
- **Taping:** Lapped glass fibre tape.

# NEK606 Water Blocked Offshore & Marine Cables



- **Outer Sheath 1:** Flame retardant halogen-free thermoplastic compound, SHF1, coloured red.
- **Outer Sheath 2:** Polyurethane for providing transversal water tightness, PE is optional, but can not meet low smoke standard.

## Optional

**P31 RFOU-HCF / TFOU-HCF 8.7/15kV**

**P32 RFOU-HCF / TFOU-HCF 12/20(24) kV**

**P33 RFOU-HCF / TFOU-HCF 18/30(36) kV**

## Electrical Characteristics

Nominal Cross Section Area	mm <sup>2</sup>	70	95	120	150	185	240	300
Nominal Conductor Diameter	mm	10.3	12.2	13.8	15.1	17.0	19.6	21.9
Maximum DC Resistant@20°C	Ω/km	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
Continuous Current Rating@45°C 1 Core	A	242	293	339	389	444	522	601
Continuous Current Rating@45°C 3 Core	A	169	205	237	272	311	365	421
Short Circuit Current 1s	A	10020	13590	17170	21460	26470	34340	42930
Operating Voltage	KV	6/10	6/10	6/10	6/10	6/10	6/10	6/10

## Ambient Temperature Correction Factors

Ambient Temperature Correction Factors	35	40	45	50	55	60	65	70	75	80
Rating Factor	1.1	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47

## Mechanical and Thermal Properties

- **Bending Radius:** 20×OD (during installation); 12×OD (fixed installed)
- **Temperature Range:** -20°C ~ +90°C

## Dimensions and Weight



# NEK606 Water Blocked Offshore & Marine Cables

Construction No. of cores×Cross section(mm <sup>2</sup> )	Nominal Insulation Thickness mm	Nominal Diameter Over Bedding mm	Nominal Diameter Over Inner Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×70	3.4	23.5	30.0	64.4±2	5481
1×95	3.4	25.5	32.0	67.3±2	6195
1×120	3.4	27.5	34.0	69.3±2	6657
1×150	3.4	28.5	35.0	70.3±2	7004
1×185	3.4	30.5	36.5	71.8±2	7686
1×240	3.4	33.0	39.0	75.2±2	8663
1×300	3.4	35.0	41.5	77.7±2	9744
3×50	3.4	47.0	55.0	91.4±2	11519
3×95	3.4	54.0	62.5	99.8±2	14942
3×150	3.4	60.0	70.5	108.8±2	18270



Standard



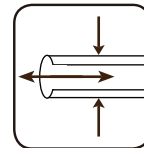
Standard



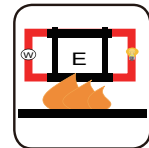
Standard



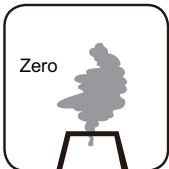
Standard



Water Tightness  
VG 95218-29



Circuit Integrity  
IEC 60331-21



Halogen Free  
IEC60754-1



Low Corrosivity  
IEC60754-2



Low Smoke Emission  
IEC 61034-1&2



Flame Retardancy  
IEC60332-1



Reduced Fire Propagation  
IEC60332-3-22