



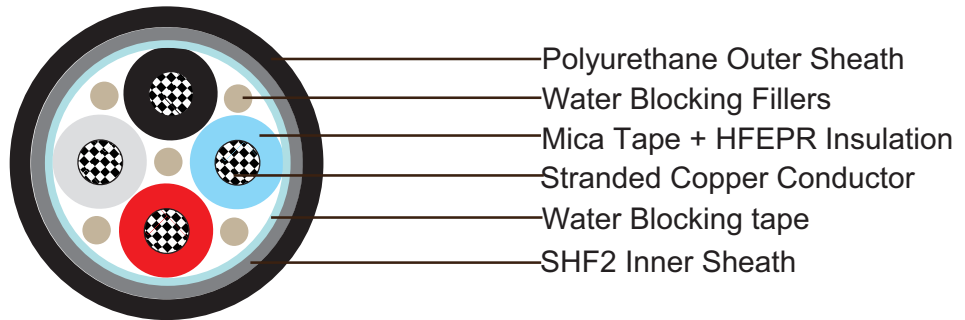
Water Blocked P17 BU 0.6/1 kV

Applications

These cables are partially water blocked, fire resistant, flame retardant, low smoke and halogen free, used for control, power and lighting systems.

Standards

- IEC 60092-353
- IEC 60092-351
- IEC 60092-359
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-2
- NEK 606:2004
- VG 95218 part 29



Construction

- **Conductors:** Tinned annealed stranded copper to IEC 60228 class 2.
- **Filler:** Water blocking fillers, if required.
- **Insulation:** Mica tape + Halogen free EPR.
- **Water Blocking Elements:** Water blocking tape and strings for providing longitudinal water tightness.
- **Inner Sheath:** Halogen free thermosetting compound, SHF2, coloured black.
- **Outer Sheath:** Polyurethane for providing transversal water tightness, PE is optional, but can not meet low smoke standard.

Electrical Characteristics

Nominal Cross Section Area	mm ²	1.5	2.5	4	6	10	16	25	35
Nominal Conductor Diameter	mm	1.6	2.1	2.6	3.2	4	5.1	6.5	7.4
Maximum DC Resistant@20°C	Ω/km	12.2	7.56	4.7	3.11	1.84	1.16	0.734	0.529
Continuous Current Rating@45°C 1 Core	A	23	30	40	52	72	96	127	157

NEK606 Water Blocked Offshore & Marine Cables



Continuous Current Rating@45°C 2 Core	A	20	26	34	44	61	82	108	133
Continuous Current Rating@45°C 3&4 Core	A	16	21	28	36	50	67	89	110
Short Circuit Current 1s	A	210	360	570	860	1430	2290	3580	5010
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1
Nominal Cross Section Area	mm ²	50	70	95	120	150	185	240	300
Nominal Conductor Diameter	mm	8.7	10.3	12.2	13.8	15.1	17.0	19.6	21.9
Maximum DC Resistant@20°C	Ω/km	0.391	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
Continuous Current Rating@45°C 1 Core	A	196	242	293	339	389	444	522	601
Continuous Current Rating@45°C 2 Core	A	167	206	249	288	331	444	444	511
Continuous Current Rating@45°C 3&4 Core	A	137	169	205	237	272	311	365	421
Short Circuit Current 1s	A	7150	10020	13590	17170	21460	26470	34340	42930
Operating Voltage	KV	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1	0.6/1

Note: For more than 4-cores, the current ratings may be calculated from the following formula ($I_N = I_1 / \sqrt[3]{N}$), I_1 = Current rating for 1-core, N = Number of cores.

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: 8×OD (during installation); 6×OD (fixed installed)
- Temperature Range: -20°C ~ +90°C

Dimensions and Weight

Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×1.5	1.0	1.0	1.0	8.4±2	68
1×2.5	1.0	1.0	1.0	8.8±2	79
1×4	1.0	1.0	1.0	9.4±2	100
1×6	1.0	1.0	1.0	9.9±2	126
1×10	1.0	1.1	1.0	10.8±2	179
1×16	1.0	1.1	1.0	12.2±2	252
1×25	1.2	1.2	1.2	14.4±2	378



NEK606 Water Blocked Offshore & Marine Cables

Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×35	1.2	1.2	1.2	15.5±2	478
1×50	1.4	1.3	1.2	17.1±2	630
1×70	1.4	1.4	1.2	19.0±2	845
1×95	1.6	1.5	1.4	21.8±2	1150
1×120	1.6	1.5	1.4	23.4±2	1412
1×150	1.8	1.6	1.4	25.5±2	1717
1×185	2.0	1.7	1.4	28.0±2	2174
1×240	2.2	1.8	1.6	31.6±2	2788
1×300	2.4	1.9	1.6	34.3±2	3502
2×1.5	1.0	1.1	1.0	12.3±2	163
2×2.5	1.0	1.2	1.0	13.0±2	200
2×4	1.0	1.2	1.0	14.3±2	263
2×6	1.0	1.3	1.0	15.4±2	326
2×10	1.0	1.3	1.0	17.6±2	467
2×16	1.0	1.4	1.0	20.2±2	667
2×25	1.2	1.6	1.2	24.4±2	1019
2×35	1.2	1.7	1.2	26.4±2	1276
2×50	1.4	1.8	1.2	29.8±2	1696
2×70	1.4	1.9	1.2	35.0±2	2452
2×95	1.6	2.1	1.4	40.4±2	3313
2×120	1.6	2.3	1.4	44.0±2	4069
2×150	1.8	2.4	1.4	48.2±2	4961
2×185	2.0	2.6	1.4	53.0±2	6137
2×240	2.2	2.8	1.6	60.0±2	7949
2×300	2.4	3.1	1.6	66.2±2	9865
3×1.5	1.0	1.2	1.0	12.9±2	189
3×2.5	1.0	1.2	1.0	13.9±2	242
3×4	1.0	1.2	1.0	15.1±2	310
3×6	1.0	1.3	1.0	16.2±2	394
3×10	1.0	1.4	1.0	18.5±2	578
3×16	1.0	1.5	1.0	21.3±2	835
3×25	1.2	1.6	1.2	25.9±2	1281
3×35	1.2	1.7	1.2	28.0±2	1622
3×50	1.4	1.9	1.2	31.9±2	2179
3×70	1.4	2.0	1.2	35.6±2	2914
3×95	1.6	2.2	1.4	41.3±2	3990
3×120	1.6	2.4	1.4	44.8±2	4919
3×150	1.8	2.5	1.4	49.1±2	5969
3×185	2.0	2.7	1.4	54.6±2	7576
3×240	2.2	3.0	1.6	61.2±2	9786

NEK606 Water Blocked Offshore & Marine Cables



Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
3×300	2.4	3.2	1.6	70.8±2	12894
4×1.5	1.0	1.2	1.0	14.1±2	236
4×2.5	1.0	1.2	1.0	15.0±2	289
4×4	1.0	1.3	1.0	16.5±2	383
4×6	1.0	1.4	1.0	17.8±2	515
4×10	1.0	1.4	1.0	20.4±2	730
4×16	1.0	1.5	1.0	23.5±2	1055
4×25	1.2	1.7	1.2	28.5±2	1628
4×35	1.2	1.8	1.2	30.9±2	2069
4×50	1.4	2.0	1.2	35.2±2	2777
4×70	1.4	2.2	1.2	39.3±2	3722
4×95	1.6	2.4	1.4	45.6±2	5093
4×120	1.6	2.6	1.4	49.3±2	6263
4×150	1.8	2.8	1.4	57.4±2	8421
4×185	2.0	3.0	1.4	63.1±2	10427
4×240	2.2	3.3	1.6	71.6±2	13566
4×300	2.4	3.5	1.6	78.7±2	16795
5×1.5	1.0	1.3	1.0	16.3±2	278
6×1.5	1.0	1.3	1.0	17.6±2	320
7×1.5	1.0	1.3	1.0	17.6±2	336
8×1.5	1.0	1.4	1.0	20.4±2	446
9×1.5	1.0	1.5	1.0	21.9±2	462
10×1.5	1.0	1.5	1.0	22.2±2	520
12×1.5	1.0	1.5	1.0	22.9±2	557
14×1.5	1.0	1.6	1.0	23.9±2	662
16×1.5	1.0	1.6	1.0	25.3±2	725
19×1.5	1.0	1.6	1.0	26.6±2	830
20×1.5	1.0	1.7	1.0	28.1±2	924
23×1.5	1.0	1.8	1.0	30.4±2	1082
24×1.5	1.0	1.8	1.0	31.2±2	1087
27×1.5	1.0	1.8	1.0	31.9±2	1134
30×1.5	1.0	1.9	1.0	33.1±2	1313
33×1.5	1.0	1.9	1.0	34.3±2	1402
37×1.5	1.0	2.0	1.0	35.8±2	1517
44×1.5	1.0	2.2	1.0	40.4±2	1853
5×2.5	1.0	1.3	1.0	16.5±2	357
6×2.5	1.0	1.4	1.0	19.0±2	415
7×2.5	1.0	1.4	1.0	19.0±2	441
8×2.5	1.0	1.5	1.0	22.0±2	562
9×2.5	1.0	1.5	1.0	23.5±2	588



NEK606 Water Blocked Offshore & Marine Cables

Construction No. of cores×Cross section(mm ²)	Nominal Insulation Thickness mm	Nominal Inner Sheath Thickness mm	Nominal Outer Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
10×2.5	1.0	1.5	1.0	23.8±2	651
12×2.5	1.0	1.6	1.0	24.7±2	714
14×2.5	1.0	1.6	1.0	25.9±2	851
16×2.5	1.0	1.7	1.0	27.4±2	940
19×2.5	1.0	1.7	1.0	28.8±2	1050
20×2.5	1.0	1.8	1.0	30.4±2	1197
23×2.5	1.0	1.9	1.0	32.9±2	1391
24×2.5	1.0	1.9	1.0	33.8±2	1407
27×2.5	1.0	1.9	1.0	34.5±2	1465
30×2.5	1.0	2.0	1.0	35.9±2	1701
33×2.5	1.0	2.0	1.0	37.2±2	1822
37×2.5	1.0	2.1	1.0	38.8±2	1958
44×2.5	1.0	2.3	1.0	43.8±2	2410



Standard



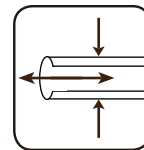
Standard



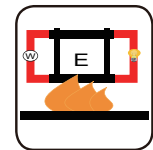
Standard



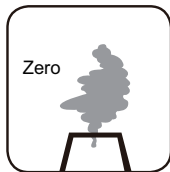
Standard



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