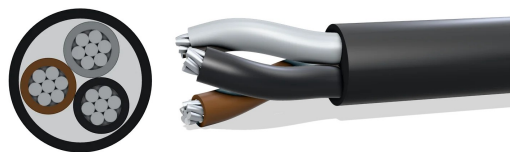


Application

RU 0.6/1 kV is a flame-retardant, halogen-free and mud-resistant unarmoured power and control cable for fixed installation on offshore units, drilling rigs, FPSOs and ships, designed to NEK TS 606 (code P18, since NEK TS 606:2016 code P111) and IEC 60092-353. The tinned copper conductors are insulated with halogen-free EPR and protected by a halogen-free, mud-resistant thermoset outer sheath; the cable has no metallic braid and is the unarmoured counterpart of RFOU. It is intended for power distribution, lighting, control and trace-heating circuits below 1 kV in safe and hazardous areas, including locations exposed to oil, drilling fluids and mud. It is not intended for applications requiring fire-resistant (circuit-integrity) cable or where mechanical or EMC protection by a braid is needed.



CONSTRUCTION

Conductor	Tinned annealed stranded circular copper, class 2 acc. to IEC 60228.
Insulation	Halogen-free EPR compound.
Outer sheath	Halogen-free, flame-retardant and mud-resistant thermoset compound (SHF2 mud grade), black.
Core identification	Up to 4 cores: coloured cores acc. to NEK TS 606; 5 cores and more: white cores with black numbers.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV (max. operating voltage 1.2 kV).
Test voltage	3.5 kV.
Standard	NEK TS 606 (code P18 / P111); design acc. to IEC 60092-353; conductors acc. to IEC 60228.
Flame-retardant	Acc. to IEC 60332-3-22 Cat. A.
Halogen-free	Acc. to IEC 60754-1; low smoke density acc. to IEC 61034-1/-2.
Mud-resistant	Yes, sheath resistant to oil and drilling mud acc. to NEK TS 606.
Max. conductor temperature	+90 °C.
Permitted outer cable temperature, fixed	-20 °C to +90 °C.
Min. bending radius, fixed	6 × outer diameter (8 × outer diameter during installation).
Reaction to fire (CPR)	Outside the scope of EN 50575 (shipboard / offshore cable, classified under IEC 60092 and marine type approval, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 1	18.2	9	110
5 × 1	18.2	11.5	190
7 × 1	18.2	12.5	240
8 × 1	18.2	13.5	270
9 × 1	18.2	14.7	310
10 × 1	18.2	16	340
12 × 1	18.2	16.5	390
14 × 1	18.2	17.6	450
16 × 1	18.2	18.5	500
19 × 1	18.2	19.7	580
24 × 1	18.2	23.2	740
27 × 1	18.2	23.7	800
30 × 1	18.2	24.6	870
37 × 1	18.2	26.7	1060
44 × 1	18.2	30.6	1300
1 × 1.5	12.2	5.8	60
2 × 1.5	12.2	9.6	140
3 × 1.5	12.2	10.2	160
4 × 1.5	12.2	11.1	200
5 × 1.5	12.2	12.3	240
7 × 1.5	12.2	13.4	290
8 × 1.5	12.2	14.7	340
9 × 1.5	12.2	15.8	380
10 × 1.5	12.2	17.4	430
12 × 1.5	12.2	18	480
14 × 1.5	12.2	18.9	550
16 × 1.5	12.2	20.1	620
19 × 1.5	12.2	21.2	710
24 × 1.5	12.2	25.2	920
27 × 1.5	12.2	25.8	1000
30 × 1.5	12.2	26.7	1090
37 × 1.5	12.2	29.2	1340
44 × 1.5	12.2	33.2	1620
1 × 2.5	7.56	6.2	70
2 × 2.5	7.56	10.4	170
3 × 2.5	7.56	11	210
4 × 2.5	7.56	12.3	260
5 × 2.5	7.56	13.4	310
7 × 2.5	7.56	14.8	390
8 × 2.5	7.56	16	430
9 × 2.5	7.56	17.5	490
10 × 2.5	7.56	19	550
12 × 2.5	7.56	19.8	640
14 × 2.5	7.56	20.9	720
16 × 2.5	7.56	22.2	820

Cores × mm2	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
19 × 2.5	7.56	23.4	950
24 × 2.5	7.56	27.8	1210
27 × 2.5	7.56	28.4	1330
30 × 2.5	7.56	29.7	1480
37 × 2.5	7.56	32.2	1780
44 × 2.5	7.56	36.6	2150
1 × 4	4.7	6.7	90
2 × 4	4.7	11.6	230
3 × 4	4.7	12.3	270
4 × 4	4.7	13.5	340
5 × 4	4.7	15	420
7 × 4	4.7	16.3	510
8 × 4	4.7	17.9	590
9 × 4	4.7	19.5	660
10 × 4	4.7	21.2	730
12 × 4	4.7	21.9	850
14 × 4	4.7	23.3	980
16 × 4	4.7	24.6	1100
19 × 4	4.7	26.1	1290
24 × 4	4.7	31.2	1660
27 × 4	4.7	31.9	1830
30 × 4	4.7	33.3	2030
37 × 4	4.7	36.1	2450
44 × 4	4.7	40.8	2920
1 × 6	3.11	7.3	110
2 × 6	3.11	12.8	290
3 × 6	3.11	13.6	360
4 × 6	3.11	15.1	450
5 × 6	3.11	16.8	560
1 × 10	1.84	8.2	160
2 × 10	1.84	14.8	390
3 × 10	1.84	15.7	510
4 × 10	1.84	17.5	650
5 × 10	1.84	19.2	790
1 × 16	1.16	9.4	230
2 × 16	1.16	17	550
3 × 16	1.16	18.1	730
4 × 16	1.16	20.1	930
5 × 16	1.16	22.3	1150
1 × 25	0.734	11.1	340
2 × 25	0.734	20.6	840
3 × 25	0.734	21.9	1110
4 × 25	0.734	24.4	1430
5 × 25	0.734	27.1	1780
1 × 35	0.529	12.4	450
2 × 35	0.529	23	1090
3 × 35	0.529	24.5	1450

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
4 × 35	0.529	27.3	1880
5 × 35	0.529	30.7	2370
1 × 50	0.391	14.4	600
2 × 50	0.391	26.8	1450
3 × 50	0.391	29	1990
4 × 50	0.391	32.2	2570
5 × 50	0.391	35.9	3200
1 × 70	0.27	16.1	810
2 × 70	0.27	30.8	2000
3 × 70	0.27	32.9	2700
4 × 70	0.27	36.7	3510
5 × 70	0.27	40.7	4350
1 × 95	0.195	18.6	1100
2 × 95	0.195	35.6	2690
3 × 95	0.195	38.2	3670
4 × 95	0.195	42.7	4790
5 × 95	0.195	47.5	5950
1 × 120	0.154	20.3	1360
2 × 120	0.154	39	3300
3 × 120	0.154	41.9	4520
4 × 120	0.154	46.7	5880
5 × 120	0.154	51.8	7270
1 × 150	0.126	22.4	1650
2 × 150	0.126	43	4000
3 × 150	0.126	46.1	5480
4 × 150	0.126	51.5	7140
5 × 150	0.126	57.5	8910
1 × 185	0.1	25.1	2070
2 × 185	0.1	48.4	5030
3 × 185	0.1	52.1	6930
4 × 185	0.1	58.1	9010
5 × 185	0.1	64.7	11200
1 × 240	0.0762	28.3	2690
2 × 240	0.0762	55	6550
3 × 240	0.0762	59	8970
4 × 240	0.0762	65.9	11720
5 × 240	0.0762	73.4	14560
1 × 300	0.0607	31.5	3340
2 × 300	0.0607	61	8090
3 × 300	0.0607	65.6	11140
4 × 300	0.0607	73.1	14500
1 × 400	0.0475	36	4520
1 × 500	0.0369	39.3	5450
1 × 630	0.0286	43.7	6990

Outer diameters, weights and conductor resistance are the nominal manufacturer values of the leading reference source (tinned class-2 conductors, constructions without earth core); all values are indicative and non-binding.