

# 600/1000V NEK606 FLAME RETARDANT CABLE

## RFOU POWER CABLE



### CONDUCTOR

Tinned flexible compacted copper IEC 60228 class 2

### VOLTAGE RATING

600/1000V

### INSULATION

Halogen free EPR (Ethylene Propylene Rubber) compound

### OPERATING TEMPERATURE

Max. 90°C, Cold bend -40°C / Cold impact -35°C

### INSULATION COLOR

- 1 core - off white (Grey)
- 2 core - off white (Grey), black
- 3 core - off white (Grey), black, red
- 4 core - off white (Grey), black, red, blue
- 5 cores and above - white numbered

### SCREEN

TCWB (Tinned Copper Wire Braid)

### INSULATION COLOR (GREEN/YELLOW)

- 3 core – Blue, Brown, Green/Yellow
- 4 core – Black, Brown, Grey, Green/Yellow
- 5 core – Black, Brown, Grey, Blue, Green/Yellow

### STANDARDS

- Design Guidelines : IEC 60092-353, IEC 60092-375
- Halogen Free Properties : IEC 60754-1, 2
- Flame Retardant : IEC60332-3/A
- Smoke Density : IEC 61034-1, 2

NEK 606: offshore installation halogen-free or mud-resistant

### OUTER SHEATH

Type: SHF2 MUD, thermoset dual compound, halogen free and mud resistant

### TYPE APPROVALS

ABS, DNV and Lloyds Register of Shipping  
Meets the UV resistance requirements of UL1581 or HD605 part 2.5.12

### SHEATH COLOR

Black

### APPLICATION

Mud resistant cable for control, lighting and power systems.  
Mud resistant in accordance with NEK 606.

No. of Cores x Nominal Cross Sectional Area	Conductor Diameter	Insulation Thickness	Diameter Under Armour	Overall Nominal Diameter	Current Rating as 45°C	Net Weight Approx.	Max Conductor Resistance at 20°C
n x mm <sup>2</sup>	No./mm	mm	mm	mm	mm	kg/km	Ω /km
1 x 2.5	2.2	1.0	6.0	9.7	30	170	-
1 x 6.0	3.2	1.0	7.0	10.5	58	193	-
1 x 16.0	4.8	1.0	10.1	11.2	93	385	1.1600
1 x 25.0	6.3	1.2	11.7	13.3	117	573	0.7340
1 x 35.0	7.1	1.2	13.0	14.6	147	713	0.5290
1 x 50.0	8.3	1.4	14.3	15.9	180	896	0.3910
1 x 70.0	10.0	1.4	16.2	17.8	283	1160	0.2700
1 x 95.0	11.7	1.6	18.5	20.1	285	1484	0.1950
1 x 120.0	13.0	1.6	19.6	21.2	333	1758	0.1540
1 x 150.0	14.3	1.8	21.4	23.0	386	2119	0.1260
1 x 185.0	16.3	2.0	23.9	25.5	444	2558	0.1000
1 x 240.0	18.7	2.2	27.3	33.7	528	3240	0.0762
1 x 300.0	21.7	2.4	30.7	35.0	612	4050	0.0607

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n x mm <sup>2</sup>	No./mm	mm	mm	mm	mm	kg/km	Ω /km
3(G) x 1.5	1.6	1.0	10.8	15.0	20	349	12.200
3(G) x 2.5	2.0	1.0	11.9	16.1	28	417	7.5600
3(G) x 4.0	2.6	1.0	13.6	17.8	37	521	4.7000
3(G) x 6.0	3.2	1.0	14.7	19.1	47	627	3.1100
3 x 10.0	3.8	1.0	15.8	21.1	65	857	1.8400
3(G) x 16.0	4.8	1.0	18.0	23.6	87	1148	1.1600
3(G) x 25.0	6.3	1.2	21.7	27.6	110	1609	0.7340
3(G) x 35.0	7.1	1.2	24.6	30.9	137	2079	0.5290
3 x 50.0	8.3	1.4	27.6	34.6	167	2780	0.3910
3(G) x 70.0	10.0	1.4	31.8	39.4	214	3684	0.2700
3 x 95.0	11.7	1.6	36.7	45.2	259	4929	0.1950
3 x 120.0	13.0	1.6	39.4	48.5	301	5954	0.1540
3 x 150.0	14.3	1.8	43.6	54.0	347	7526	0.1260
3 x 185.0	16.3	2.0	49.0	61.0	397	9487	0.1000
3 x 240.0	18.7	2.2	55.8	68.5	468	12050	0.0762
4(G) x 1.5	1.6	1.0	11.7	15.9	20	397	12.200
4(G) x 2.5	2.0	1.0	12.9	17.1	28	479	7.5600
4(G) x 4.0	2.6	1.0	14.8	19.0	37	616	4.7000
4(G) x 6.0	3.2	1.0	16.0	20.9	47	761	3.1100
4(G) x 10.0	3.8	1.0	17.2	22.5	65	1009	1.8400
4(G) x 16.0	4.8	1.0	19.7	25.6	87	1370	1.1600
4(G) x 25.0	6.3	1.2	23.8	29.7	110	1938	0.7340
4(G) x 35.0	7.1	1.2	27.1	33.3	137	2520	0.5290
4 x 50.0	8.3	1.4	30.4	37.4	167	3387	0.3910
4 x 70.0	10.0	1.4	35.0	42.6	214	4506	0.2700
4(G) x 95.0	11.7	1.6	40.5	49.0	259	6042	0.1950
4(G) x 120.0	13.0	1.6	43.5	52.6	301	7324	0.1540
5G x 1.5	1.6	1.0	13.0	16.5	20	496	-
5G x 2.5	2.0	1.0	14.0	18.5	28	598	-
5G x 4.0	2.6	1.0	16.0	21.5	37	766	-
5G x 6.0	3.2	1.0	18.0	23.5	47	941	-
5G x 70.0	10.0	1.4	38.0	46.5	214	5332	-
7 x 1.5	1.6	1.0	14.0	18.2	11	370	12.200
7 x 2.5	2.0	1.0	15.3	19.9	15	657	7.5600
12 x 1.5	1.6	1.0	18.2	23.6	9	545	12.200
12 x 2.5	2.0	1.0	19.9	25.5	13	1115	7.5600
19 x 1.5	1.6	1.0	21.2	27.0	8	743	12.200
19 x 2.5	2.0	1.0	23.5	29.3	11	1516	7.5600
27 x 2.5	2.0	1.0	28.4	34.6	9	2107	7.5600
37 x 1.5	1.6	1.0	25.6	31.8	6	1291	12.200
37 x 2.5	2.0	1.0	31.9	38.6	9	2662	7.5600

**Note:**

(G) - standard insulation type and green/yellow option type available

G - only green/yellow insulation option type available