DATA SHEET

RFOU P1/P8/P101 NEK606 0,6/1 kV

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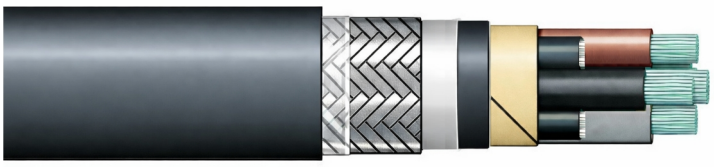

The product may differ from the illustration.

Features

- power & control 0,6/1 kV
- halogen free, flame retardant, armoured
- mineral/hydraulic oils & muds resistant acc. to NEK 606:2016
- operating temperature over 100°C

Applications

Halogen-free, flame-retardant, armoured power and control cable for demanding industrial and marine applications. Suitable for environments exposed to oils, hydraulic fluids, and mud, as well as safety-critical installations requiring enhanced mechanical protection. Designed for fixed installation and limited flexible use in indoor and outdoor conditions.

Technical data

Conductor	tinned annealed copper flexible Class 2 or Class 5 IEC 60228
Insulation	EPR HF compound IEC 60092-360
Bedding & fillers	fiberglass tape + fiberglass ropes EPR sheathed when 3 cores (sect. > 16 mm²)
Inner sheath	SHF2 extruded compound IEC 60092-360
Armour	tinned copper wire braid (on request braiding section when used as earth)
Outer sheath	SHF2 H-M compound black NEK 606:2016
Cores identification	according to HD 308 S2 and IEC 60445 1 core: white or black 3 cores: brown, black, grey 2 cores: blue, brown 4 cores: blue, brown, black, grey Multicores: white numbered
Design and construction	IEC 60092-353 NEK 606:2016
Nominal voltage Uo/U	0,6/1 kV
Max. operating voltage Umax	1,2 kV
Max. rated temperature	90°C acc. to IEC 60092-360
Flame retardancy	IEC 60332-1-2, IEC 60332-3-22 Cat A
Halogen content & corrosivity	IEC 60754-1&2, IEC 60684-2
Smoke density	IEC 61034-1&2
UV resistance	UL 1581 § 1200
Ozone resistance	IEC 60092-360
Mineral / hydraulic oils & muds resistance	NEK 606:2016 Table 1 Category d
Cold Bend and Impact test (- 40°C)	CSA C 22.2 N° 0.3-09 & N° 38-18

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Construction n x mm²	Conductor diameter nominal mm	Insulation thickness nominal mm	Diameter under armour nominal mm	Overall diameter approx. mm	Weight approx. kg/km
1x16	5,2	1,0	10,9	15	480
1x25	6,5	1,2	12,6	17	620
1x35	7,5	1,2	13,6	18	745
1x50	8,3	1,4	14,7	19	900
1x70	10,0	1,4	16,4	21	1.145
1x95	11,8	1,6	18,6	24	1.500
1x120	13,2	1,6	20,4	26	1.800
1x150	14,6	1,8	22,2	28	2.150
1x185	16,5	2,0	24,5	30	2.630
1x240	19,0	2,2	27,8	34	3.320
1x300	21,8	2,4	31	38	4.030
2x1,5	1,6	1,0	9,5	14	290
2x2,5	2,0	1,0	10,5	15	350
2x4	2,8	1,0	12,1	17	470
2x6	3,3	1,0	13,1	18	560
2x10	4,1	1,0	15,3	21	770
2x16	5,2	1,0	17,5	24	990
3x1,5	1,6	1,0	9,8	14	320
3x2,5	2,0	1,0	10,6	16	380
3x4	2,8	1,0	12,4	18	560
3x6	3,3	1,0	13,4	19	640
3x10	4,1	1,0	15,2	22	890
3x16	5,2	1,0	17,6	25	1.190
3x25	6,5	1,2	21,2	29	1.610
3x35	7,5	1,2	23,4	32	2.100
3x50	8,3	1,4	26,0	35	2.720
3x70	10,0	1,4	30,0	39	3.550
3x95	11,8	1,6	34,8	45	4.700
3x120	13,2	1,6	37,8	49	5.650
3x150	14,6	1,8	42,1	53	6.970
3x185	16,5	2,0	47,1	59	8.520
3x240	19,0	2,2	53,3	66	10.790
3x300	21,8	2,4	60,3	77	13.370

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Construction n x mm²	Conductor diameter nominal mm	Insulation thickness nominal mm	Diameter under armour nominal mm	Overall diameter approx. mm	Weight approx. kg/km
4x1,5	1,6	1,0	11,0	15	390
4x2,5	2,0	1,0	12,2	16	470
4x4	2,8	1,0	14,5	19	680
4x6	3,3	1,0	15,9	22	850
4x10	4,1	1,0	18,5	24	1.100
4x16	5,2	1,0	21,5	27	1.500
4x25	6,5	1,2	25,3	33	2.110
4x35	7,5	1,2	27,8	35	2.640
4x50	8,3	1,4	31,0	38	3.440
4x70	10,0	1,4	35,5	43	4.510
4x95	11,8	1,6	41,2	49	5.950
4x120	13,2	1,6	45,0	54	7.270
4x150	14,6	1,8	48,2	57	8.550
4x185	16,5	2,0	54,2	64	10.775
4x240	19,0	2,2	61,0	71	13.760
4x300	21,8	2,4	69,0	79	16.480
5x1,5	1,6	1,0	13,3	18	500
7x1,5	1,6	1,0	14,5	19	590
12x1,5	1,6	1,0	19,2	25	930
19x1,5	1,6	1,0	22,8	28	1.240
37x1,5	1,6	1,0	30,8	37	2.140
5x2,5	2,0	1,0	14,8	19	590
7x2,5	2,0	1,0	16,1	21	720
12x2,5	2,0	1,0	21,5	27	1.150
19x2,5	2,0	1,0	25,4	31	1.480
37x2,5	2,0	1,0	34,4	41	2.755