

250V BFOU(C) 1.0, 1.5, 2.5SQMMxPR type [S4], [S4/S8]

- Instrument circuit up to 250V, instrument safe systems.
- Fixed installation instrument, communication, control and alarm systems in both explosion risk and safe areas, emergency and critical systems.
- Maximum operating conductor temperature 90 ° C

Construction Details

- Conductor : Circular tinned stranded copper as per IEC 60228, Class 2
- Fire proof layer : Mica/Glass tape
- Insulation : Halogen Free Ethylene Propylene Rubber
- Pair twisting
- Cabling
- Collective screen : Cu/PS tape with drain wire
- Inner covering : Halogen free thermosetting compound
- Armour : Copper wire braid
- Outer sheath : Halogen - free thermosetting compound, SHF2 or SHF Mud

Standard Applied

- Design guideline : NEK 606 - 2009 & IEC 60092 - 376
- Material
- Insulation : HF - EPR as per IEC 60092 - 351
- Sheath : SHF2 as per IEC 60092 - 359
- Flame retardant : IEC 60332 - 3 - 22, Cat.A
- Fire resistant : IEC 60331(- 21/ - 31/ - 1/ - 2), 830 ° C for 120 Min.
- Halogen free properties : IEC 60754 - 1,2
- Low smoke properties : IEC 61034 - 1,2
- Mud resistant : NEK 606 - 2009
- Cold properties : CSA C22.2
- Sunlight resistance : UL 1581

Identification of color

- Insulation
- 1Pair : Black, Light Blue
- 2Pair and above : Numbering on Black & Light Blue insulation core
(Note) Any other colors purchaser required
- Outer sheath : Grey
(Note) Any other colors purchaser required

Type approval

- ABS, BV, DNV, LR



IEC 60092 - 351;
IEC 60092 - 353; IEC 60092 - 359;
IEC 60092 - 375; IEC 60092 - 376;
IEC 60331; IEC 60332 - 3 Cat.A;
IEC 60754 - 1; IEC 61034;
IEC 61034 - 2

NEK 606

Uo/U (Um)

150 / 250 (300) V



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Product list

nb pairs	[mm ²]	Inner sheath thick [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	[mm]	Nom. outer diam. [mm]	([kg/km])
1	1	1.0	8.3	9.7	1.2	12.5	245
1	1.5	1.0	9.3	10.7	1.2	13.5	285
1	2.5	1.0	10.1	11.5	1.3	14.5	335
2	1	1.0	12.6	14.0	1.4	17.2	515
2	1.5	1.0	14.3	15.7	1.4	18.9	620
2	2.5	1.0	15.6	17.0	1.5	20.4	740
3	1	1.0	13.3	14.7	1.4	17.9	550
3	1.5	1.0	15.1	16.5	1.5	19.9	675
3	2.5	1.0	16.5	17.9	1.5	21.3	800
4	1	1.0	14.4	15.8	1.4	19.0	615
4	1.5	1.0	16.3	17.7	1.5	21.1	760
4	2.5	1.0	17.8	19.2	1.6	22.8	930
5	1	1.0	15.8	17.2	1.5	20.6	710
5	1.5	1.0	18	19.4	1.6	23.0	885
5	2.5	1.0	19.7	21.1	1.6	24.7	1075
6	1	1.0	17.4	18.8	1.6	22.4	820
6	1.5	1.0	19.8	21.2	1.6	24.8	1020
6	2.5	1.0	21.7	23.1	1.7	26.9	1245
7	1	1.0	17.4	18.8	1.6	22.4	845
7	1.5	1.0	19.8	21.2	1.6	24.8	1045
7	2.5	1.0	21.7	23.1	1.7	26.9	1290
8	1	1.0	19.1	20.5	1.6	24.1	905
8	1.5	1.0	21.8	23.2	1.7	27.0	1140
8	2.5	1.0	23.9	25.3	1.8	29.3	1405
9	1	1.0	20.5	21.9	1.7	25.7	1035
9	1.5	1.0	23.4	24.8	1.8	28.8	1300
9	2.5	1.0	25.7	27.1	1.9	31.3	1605
10	1	1.0	21.6	23.0	1.7	26.8	995
10	1.5	1.0	24.6	26.0	1.8	30.0	1240
10	2.5	1.2	27.4	28.8	2.0	33.2	1585
12	1	1.0	22.2	23.6	1.7	27.4	1080
12	1.5	1.0	25.4	26.8	1.9	31.0	1375
12	2.5	1.2	28.2	29.6	2.0	34.0	1745
14	1	1.0	23.5	24.9	1.8	28.9	1195
14	1.5	1.2	27.1	28.5	1.9	32.7	1530
14	2.5	1.2	29.8	31.2	2.0	35.6	1920
15	1	1.0	25.3	26.7	1.9	30.9	1305
15	1.5	1.2	29.2	30.6	2.0	35.0	1670



U_o/U (U_m)
150 / 250 (300) V

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nb pairs	[mm ²]	Inner sheath thick [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	[mm]	Nom. outer diam. [mm]	([kg/km])
15	2.5	1.2	32.2	34.0	2.2	38.8	2205
16	1	1.0	25.8	27.2	1.9	31.4	1355
16	1.5	1.2	29.8	31.2	2.0	35.6	1745
16	2.5	1.2	32.8	34.6	2.2	39.4	2300
18	1	1.2	27.6	29.0	2.0	33.4	1500
18	1.5	1.2	31.5	33.3	2.1	37.9	1980
18	2.5	1.2	34.7	36.5	2.3	41.5	2500
19	1	1.2	27.9	29.3	2.0	33.7	1550
19	1.5	1.2	31.9	33.7	2.1	38.3	2045
19	2.5	1.2	35.1	36.9	2.3	41.9	2590
20	1	1.2	29.2	30.6	2.0	35.0	1685
20	1.5	1.2	33.3	35.1	2.2	39.9	2245
20	2.5	1.2	36.7	38.5	2.3	43.5	2815
21	1	1.2	30.1	31.9	2.1	36.5	1850
21	1.5	1.2	34.4	36.2	2.2	41.0	2335
21	2.5	1.4	38.2	40.0	2.4	45.2	2990
23	1	1.2	30.6	32.4	2.1	37.0	1975
23	1.5	1.2	35	36.8	2.3	41.8	2525
23	2.5	1.4	38.8	40.6	2.4	45.8	3215
24	1	1.2	32.3	34.1	2.2	38.9	1990
24	1.5	1.2	36.9	38.7	2.3	43.7	2510
24	2.5	1.4	41	42.8	2.5	48.2	3230
27	1	1.2	33	34.8	2.2	39.6	2135
27	1.5	1.4	38.1	39.9	2.4	45.1	2765
27	2.5	1.4	42	43.8	2.6	49.4	3515
30	1	1.2	34.3	36.1	2.2	40.9	2300
30	1.5	1.4	39.6	41.4	2.5	46.8	3010
30	2.5	1.4	43.6	45.4	2.6	51.0	3810
33	1	1.2	35.7	37.5	2.3	42.5	2495
33	1.5	1.4	41.3	43.1	2.5	48.5	3245
33	2.5	1.4	45.5	47.3	2.7	53.1	4145
37	1	1.4	37.3	39.1	2.4	44.3	2735
37	1.5	1.4	42.8	44.6	2.6	50.2	3515
37	2.5	1.4	47.1	48.9	2.8	54.9	4500



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