

250V BFOU(I), BFOU(I/C) 1.0, 1.5, 2.5SQMMxPR type [S3], [S3/S7], [MR]

- 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
- Individual screen : Cu/PS tape with drain wire
- Cabling
- Collective screen(option) : 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



Uo/U (Um)
150 / 250 (300) V

250V BFOU(I), BFOU(I/C) 1.0, 1.5, 2.5SQMMxPR type [S3], [S3/S7], [MR]

Product list

nb pairs	[mm ²]	[mm]	Inner sheath thick [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	[mm]	Nom. outer diam. [mm]	([kg/km])
1	1	0.6	1.0	8.3	9.7	1.2	12.5	250
1	1.5	0.7	1.0	9.3	10.7	1.2	13.5	285
1	2.5	0.7	1.0	10.1	11.5	1.3	14.5	340
2	1	0.6	1.0	13	14.4	1.4	17.6	555
2	1.5	0.7	1.0	14.6	16.0	1.4	19.2	660
2	2.5	0.7	1.0	15.9	17.3	1.5	20.7	790
3	1	0.6	1.0	13.7	15.1	1.4	18.3	600
3	1.5	0.7	1.0	15.4	16.8	1.5	20.2	725
3	2.5	0.7	1.0	16.8	18.2	1.5	21.6	865
4	1	0.6	1.0	14.7	16.1	1.4	19.3	680
4	1.5	0.7	1.0	16.7	18.1	1.5	21.5	830
4	2.5	0.7	1.0	18.2	19.6	1.6	23.2	1010
5	1	0.6	1.0	16.3	17.7	1.5	21.1	790
5	1.5	0.7	1.0	18.4	19.8	1.6	23.4	975
5	2.5	0.7	1.0	20.1	21.5	1.7	25.3	1185
6	1	0.6	1.0	17.8	19.2	1.6	22.8	920
6	1.5	0.7	1.0	20.2	21.6	1.7	25.4	1130
6	2.5	0.7	1.0	22.2	23.6	1.7	27.4	1370
7	1	0.6	1.0	17.8	19.2	1.6	22.8	950
7	1.5	0.7	1.0	20.2	21.6	1.7	25.4	1170
7	2.5	0.7	1.0	22.2	23.6	1.7	27.4	1430
8	1	0.6	1.0	19.7	21.1	1.6	24.7	1030
8	1.5	0.7	1.0	22.3	23.7	1.7	27.5	1265
8	2.5	0.7	1.0	24.5	25.9	1.8	29.9	1560
9	1	0.6	1.0	21.1	22.5	1.7	26.3	1170
9	1.5	0.7	1.0	24	25.4	1.8	29.4	1440
9	2.5	0.7	1.0	26.3	27.7	1.9	31.9	1780
10	1	0.6	1.0	22.2	23.6	1.7	27.4	1135
10	1.5	0.7	1.0	25.3	26.7	1.9	30.9	1405
10	2.5	0.7	1.2	28	29.4	2.0	33.8	1775
12	1	0.6	1.0	22.9	24.3	1.8	28.3	1260
12	1.5	0.7	1.0	26	27.4	1.9	31.6	1545
12	2.5	0.7	1.2	28.8	30.2	2.0	34.6	1965
14	1	0.6	1.0	24.1	25.5	1.8	29.5	1380
14	1.5	0.7	1.2	27.8	29.2	2.0	33.6	1750
14	2.5	0.7	1.2	30.5	32.3	2.1	36.9	2275
15	1	0.6	1.0	26	27.4	1.9	31.6	1510
15	1.5	0.7	1.2	30	31.4	2.1	36.0	1910



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

250V BFOU(I), BFOU(I/C) 1.0, 1.5, 2.5SQMMxPR type [S3], [S3/S7] [MR1]

nb pairs	[mm ²]	[mm]	Inner sheath thick [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	[mm]	Nom. outer diam. [mm]	([kg/km])
15	2.5	0.7	1.2	32.9	34.7	2.2	39.5	2480
16	1	0.6	1.0	26.5	27.9	1.9	32.1	1575
16	1.5	0.7	1.2	30.5	32.3	2.1	36.9	2075
16	2.5	0.7	1.2	33.5	35.3	2.2	40.1	2590
18	1	0.6	1.2	28.4	29.8	2.0	34.2	1745
18	1.5	0.7	1.2	32.3	34.1	2.2	38.9	2260
18	2.5	0.7	1.2	35.5	37.3	2.3	42.3	2825
19	1	0.6	1.2	28.7	30.1	2.0	34.5	1805
19	1.5	0.7	1.2	32.7	34.5	2.2	39.3	2340
19	2.5	0.7	1.2	35.9	37.7	2.3	42.7	2930
20	1	0.6	1.2	30	31.4	2.1	36.0	1975
20	1.5	0.7	1.2	34.2	36.0	2.2	40.8	2540
20	2.5	0.7	1.4	37.8	39.6	2.4	44.8	3240
21	1	0.6	1.2	30.9	32.7	2.1	37.3	2135
21	1.5	0.7	1.2	35.3	37.1	2.3	42.1	2660
21	2.5	0.7	1.4	39.1	40.9	2.4	46.1	3375
23	1	0.6	1.2	31.5	33.3	2.1	37.9	2295
23	1.5	0.7	1.2	35.9	37.7	2.3	42.7	2865
23	2.5	0.7	1.4	39.7	41.5	2.5	46.9	3660
24	1	0.6	1.2	33.2	35.0	2.2	39.8	2315
24	1.5	0.7	1.4	38.2	40.0	2.4	45.2	2920
24	2.5	0.7	1.4	41.9	43.7	2.5	49.1	3660
27	1	0.6	1.2	34	35.8	2.2	40.6	2500
27	1.5	0.7	1.4	39.1	40.9	2.4	46.1	3155
27	2.5	0.7	1.4	42.9	44.7	2.6	50.3	4000
30	1	0.6	1.2	35.3	37.1	2.3	42.1	2720
30	1.5	0.7	1.4	40.6	42.4	2.5	47.8	3440
30	2.5	0.7	1.4	44.6	46.4	2.7	52.2	4370
33	1	0.6	1.2	36.8	38.6	2.3	43.6	2940
33	1.5	0.7	1.4	42.3	44.1	2.6	49.7	3740
33	2.5	0.7	1.4	46.5	48.3	2.7	54.1	4735
37	1	0.6	1.4	38.4	40.2	2.4	45.4	3230
37	1.5	0.7	1.4	43.8	45.6	2.6	51.2	4040
37	2.5	0.7	1.6	48.6	50.4	2.8	56.4	5225



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