

250V BFOU(I), BFOU(I/C) 1.0, 1.5, 2.5SQMMxTR 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
- Triad 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
- 1Triad : Black, Light Blue, Brown
- 2Triad and above : Numbering on Black & Light Blue & Brown

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

Product list

nb triples	[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	8.8	10.2	1.2	13.0	280
1	1.5	0.7	1.0	9.9	11.3	1.3	14.3	340
1	2.5	0.7	1.0	10.7	12.1	1.3	15.1	390
2	1	0.6	1.0	14.2	15.6	1.4	18.8	640
2	1.5	0.7	1.0	16.1	17.5	1.5	20.9	790
2	2.5	0.7	1.0	17.5	18.9	1.6	22.5	950
3	1	0.6	1.0	14.9	16.3	1.5	19.7	715
3	1.5	0.7	1.0	16.8	18.2	1.5	21.6	865
3	2.5	0.7	1.0	18.4	19.8	1.6	23.4	1055
4	1	0.6	1.0	16.2	17.6	1.5	21.0	820
4	1.5	0.7	1.0	18.3	19.7	1.6	23.3	1020
4	2.5	0.7	1.0	20.1	21.5	1.7	25.3	1250
5	1	0.6	1.0	17.8	19.2	1.6	22.8	965
5	1.5	0.7	1.0	20.2	21.6	1.7	25.4	1195
5	2.5	0.7	1.0	22.2	23.6	1.7	27.4	1460
6	1	0.6	1.0	20.2	21.6	1.7	25.4	1135
6	1.5	0.7	1.0	22.9	24.3	1.8	28.3	1405
6	2.5	0.7	1.0	25.1	26.5	1.9	30.7	1735
7	1	0.6	1.0	20.2	21.6	1.7	25.4	1180
7	1.5	0.7	1.0	22.9	24.3	1.8	28.3	1470
7	2.5	0.7	1.0	25.1	26.5	1.9	30.7	1830
8	1	0.6	1.0	21.8	23.2	1.7	27.0	1270
8	1.5	0.7	1.0	24.8	26.2	1.8	30.2	1585
8	2.5	0.7	1.2	27.5	28.9	2.0	33.3	2025
9	1	0.6	1.0	23.5	24.9	1.8	28.9	1450
9	1.5	0.7	1.2	27	28.4	1.9	32.6	1835
9	2.5	0.7	1.2	29.6	31.0	2.0	35.4	2290
10	1	0.6	1.0	25.5	26.9	1.9	31.1	1455
10	1.5	0.7	1.2	29.3	30.7	2.0	35.1	1835
10	2.5	0.7	1.2	32.2	34.0	2.2	38.8	2405
12	1	0.6	1.0	26.4	27.8	1.9	32.0	1610
12	1.5	0.7	1.2	30.4	32.2	2.1	36.8	2145
12	2.5	0.7	1.2	33.4	35.2	2.2	40.0	2685
14	1	0.6	1.2	28	29.4	2.0	33.8	1820
14	1.5	0.7	1.2	31.9	33.7	2.1	38.3	2360
14	2.5	0.7	1.2	35.1	36.9	2.3	41.9	3000
15	1	0.6	1.2	29	30.4	2.0	34.8	1935
15	1.5	0.7	1.2	33.1	34.9	2.2	39.7	2530



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

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

nb triples	[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	36.3	38.1	2.3	43.1	3190
16	1	0.6	1.2	30	31.4	2.1	36.0	2050
16	1.5	0.7	1.2	34.2	36.0	2.2	40.8	2660
16	2.5	0.7	1.4	37.9	39.7	2.4	44.9	3420
18	1	0.6	1.2	31.7	33.5	2.1	38.1	2310
18	1.5	0.7	1.2	36.1	37.9	2.3	42.9	2905
18	2.5	0.7	1.4	40	41.8	2.5	47.2	3740
19	1	0.6	1.2	32	33.8	2.2	38.6	2410
19	1.5	0.7	1.2	36.5	38.3	2.3	43.3	3015
19	2.5	0.7	1.4	40.4	42.2	2.5	47.6	3885
20	1	0.6	1.2	33	34.8	2.2	39.6	2590
20	1.5	0.7	1.4	37.9	39.7	2.4	44.9	3305
20	2.5	0.7	1.4	41.7	43.5	2.5	48.9	4185
21	1	0.6	1.2	33.8	35.6	2.2	40.4	2685
21	1.5	0.7	1.4	38.8	40.6	2.4	45.8	3430
21	2.5	0.7	1.4	42.6	44.4	2.6	50.0	4370
23	1	0.6	1.2	35.2	37.0	2.3	42.0	2935
23	1.5	0.7	1.4	40.5	42.3	2.5	47.7	3755
23	2.5	0.7	1.4	44.5	46.3	2.7	52.1	4785
24	1	0.6	1.2	36	37.8	2.3	42.8	2915
24	1.5	0.7	1.4	41.4	43.2	2.5	48.6	3725
24	2.5	0.7	1.4	45.4	47.2	2.7	53.0	4760
27	1	0.6	1.4	38.3	40.1	2.4	45.3	3255
27	1.5	0.7	1.4	43.7	45.5	2.6	51.1	4115
27	2.5	0.7	1.6	48.4	50.2	2.8	56.2	5335
30	1	0.6	1.4	40.2	42.0	2.5	47.4	3565
30	1.5	0.7	1.4	45.9	47.7	2.7	53.5	4510
30	2.5	0.7	1.6	50.8	52.6	2.9	58.8	5855
32	1	0.6	1.4	41.4	43.2	2.5	48.6	3755
32	1.5	0.7	1.6	47.7	49.5	2.8	55.5	4850
32	2.5	0.7	1.6	52.4	54.2	3.0	60.6	6215



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