



BFOU (c) S104 & BFOU (c) EMC 150/250 (300) V

BFOU (c) S4/S8 & BFOU (c) EMC 150/250 (300) V

MGT/EPR/EVA/TCWB/EVA

NEK TS 606:2016, Code S104, NEK TS 606:2009, Code S4/S8, IEC 60092-376-Design guidelines, IEC 60228 conductor, IEC 60092-360 Insulating material, IEC 60092-360 Sheathing materials, IEC 60332-1-2, IEC 60332-3-22 Flame retardant, IEC 60331 Fire resistant, IEC 60754-1.2 Halogen free, IEC 61034-1.2 Low Smoke

Fire resistant, flame retardant halogen-free instrumentation cable. Mud resistant

APPLICATIONS

- Fixed installation for instrumentation, communication, control and alarm system in both EX - and safe areas emergency and critical systems where requirements for fire resistance exists
- Meets the MUD resistance requirement in NEK TS 606
- For fixed wiring installations on Oil and Gas Rigs, Shipboard and other marine applications requiring screened cable for EMC
- Other industrial applications

CONSTRUCTION

	Code Letter	
Conductors		Tinned annealed circular stranded copper according to IEC 60228 class 2 or class 5
Insulation	B	Mica tape EP rubber thermosetting compound, IEC 60092-360 (EPR)
Pair, Triple, Quad twisting		Color coded cores twisted together and wrapped with polyester tape. Pairs/ Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/ triples are identified by numbers printed directly on the insulated conductors



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	Code Letter	
Inner covering	F	Flame retardant and halogen free thermosetting compound
Armour/screen	O	Polyester tape & Tinned annealed copper wire braid
For EMC cable		Cu/PET tape under the braid
Separator		Separator, suitable tape between the braid and outer sheath
Outer sheath	U	Flame retardant, halogen free and mud resistant thermosetting compound SHF2 (IEC 60092-360)
Color of outer sheath		Grey or Blue

Features

Maximum conductor operating temperature: +90°C	Flame retardant: IEC 60332-3-22 (Category A)
Maximum conductor temperature during short circuit: +250°C	Fire resistant: IEC 60331
Lowest ambient temperature for fixed installation: -40°C	Smoke emission: IEC 61034-2
Lowest installation temperature: -15°C	Corrosive gas emission: IEC 60754-1
Minimum bending radius: 6 D D – overall diameter of cable	Oil resistance: IEC 60092-360 SHF2, IRM 902 (100°C/24h)
	Mud resistance: NEK 606 (SHF MUD, SHF2)

Approvals

ABS:	20-GD1953776-PDA
DNV:	TAE00001WW
Standard length cable packing	1000m on drums. Other forms of packing and delivery are available on request

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Size	Class of conductor	Insulation Thickness	Thickness of inner sheath	Diameter of braid wire	Thickness of outer sheath	Approximate overall diameter	Approximate net weight of cable
N x 2 x mm²		mm	mm	mm	mm	mm	kg/km
2x2x0.75	2	0.6	1.1	0.3	1.3	13.7	258
4x2x0.75	2	0.6	1.1	0.3	1.4	19	416
8x2x0.75	2	0.6	1.1	0.3	1.5	23.4	612
12x2x0.75	2	0.6	1.4	0.3	1.6	28	842
16x2x0.75	2	0.6	1.9	0.3	1.7	32.3	1104
19x2x0.75	2	0.6	1.9	0.3	1.8	34.6	1247
24x2x0.75	2	0.6	2.3	0.4	2	39.4	1561
2x3x0.75	2	0.6	1.1	0.3	1.3	18.2	372
4x3x0.75	2	0.6	1.1	0.3	1.4	20.5	497
8x3x0.75	2	0.6	1.1	0.3	1.6	22.7	703
12x3x0.75	2	0.6	1.4	0.3	1.8	31.5	1091
16x3x0.75	2	0.6	2.1	0.4	1.9	37.1	1463
24x3x0.75	2	0.6	2.5	0.4	2.1	44.4	2157
2x2x1.5	2	0.7	1.1	0.3	1.4	19.7	435
4x2x1.5	2	0.7	1.1	0.3	1.4	21.8	551
8x2x1.5	2	0.7	1.1	0.3	1.7	27.5	868
12x2x1.5	2	0.7	1.4	0.3	1.8	32.9	1207
16x2x1.5	2	0.7	1.9	0.4	1.9	38.4	1580
24x2x1.5	2	0.7	2.3	0.4	2.3	46.4	2379
2x3x1.5	2	0.7	1.1	0.3	1.4	21	492
4x3x1.5	2	0.7	1.1	0.3	1.5	24.9	742

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Size	Class of conductor	Insulation Thickness	Thickness of inner sheath	Diameter of braid wire	Thickness of outer sheath	Approximate overall diameter	Approximate net weight of cable
N x 2 x mm²		mm	mm	mm	mm	mm	kg/km
8x3x1.5	2	0.7	1.1	0.3	1.8	34.4	1139
12x3x1.5	2	0.7	1.4	0.4	1.9	39.6	1578
16x3x1.5	2	0.7	2.3	0.4	2.1	44	2274
24x3x1.5	2	0.7	2.7	0.4	2.4	52.8	3210
2x2x2.5	2	0.7	1.1	0.3	1.4	16.6	402
4x2x2.5	2	0.7	1.1	0.3	1.5	23.7	683
8x2x2.5	2	0.7	1.1	0.3	1.8	30.1	1103
16x2x2.5	2	0.7	2.3	0.4	2.1	42.9	2228
4x3x2.5	2	0.7	1.1	0.3	1.6	26	929
8x3x2.5	2	0.7	1.1	0.3	1.9	34.4	1472
16x3x2.5	2	0.7	2.6	0.4	2.3	48.9	3023

Without approvals

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
4x2x1	0.6	0.6	0.3	1.4	20.2	484
5x2x1	0.6	1.0	0.3	1.4	21.8	545
6x2x0.75	0.6	1.0	0.3	1.5	22.7	575
6x2x1	0.6	1.0	0.3	1.5	23.7	625
8x2x1	0.6	1.0	0.3	1.6	27.4	777

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Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
N x mm²	mm	mm	mm	mm	mm	kg/km
12x2x1	0.6	1.0	0.3	1.7	30.7	992
20x2x1	0.6	1.0	0.3	1.9	37.6	1439
3x3x1	0.6	1.0	0.3	1.4	20.4	505
5x3x1	0.6	1.0	0.3	1.5	24.1	684
19x3x1	0.6	1.2	0.3	2.0	42.3	1836
5x2x1.5	0.7	1.0	0.3	1.5	24.4	679
6x2x1.5	0.7	1.0	0.3	1.6	26.5	773
10x2x1.5	0.7	1.1	0.3	1.8	33.7	1151
19x2x1.5	0.7	1.2	0.3	2.0	42.8	1837
20x2x1.5	0.7	1.2	0.4	2.1	43.4	2016
6x3x1.5	0.7	1.1	0.3	1.7	29.6	1001
7x3x1.5	0.7	1.1	0.3	1.7	31.9	1129
12x2x2.5	0.7	1.4	0.3	1.9	38.7	1667

Standard Print Legend

acc. to NEK TS 606:2016

E.g. TF KABLE 3 BFOU (c) 250V S104 2 PAIR 0,75mm² IEC 60331-21 IEC 60332-3-22 IEC 60092-376

acc. to NEK TS 606:209

E.g. TF KABLE 3 BFOU (c) 250V S4/S8 2 PAIR 0,75mm² IEC 60331-21 IEC 60332-3-22 IEC 60092-376

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