BFOU (i) S103 & BFOU (i) EMC
150/250 (300) V
BFOU (i) S3/S7 & BFOU (i) EMC
150/250 (300) V
MGT/EPR/EVA/TCWB/EVA

NEK TS 606:2016, Code S103, NEK TS 606:2009, Code S3/S7, 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- thermosetting compound, IEC 60092-360 (EPR)
Pair, Triple, Quad twisting		Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/ triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/ triples. Pairs/ triples are identified by numbers printed directly on the insulated conductors

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	Code Letter	
Lay up/ Shielding		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with polyester tape
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

* Black outer sheathing is available on request

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**
1x2x0.75	2	0.6	1.1	0.2	1.1	11.7	171
2x2x0.75	2	0.6	1.1	0.3	1.3	13.5	258
4x2x0.75	2	0.6	1.1	0.3	1.4	18.8	438
8x2x0.75	2	0.6	1.1	0.3	1.6	23.4	680
12x2x0.75	2	0.6	1.4	0.3	1.7	28	949
16x2x0.75	2	0.6	1.9	0.3	1.8	32.3	1250
19x2x0.75	2	0.6	1.9	0.3	1.9	34.6	1422
24x2x0.75	2	0.6	2.3	0.4	2.1	39.4	1879
1x3x0.75	2	0.6	1.1	0.2	1.1	12.2	200
2x3x0.75	2	0.6	1.1	0.3	1.4	18.2	384
4x3x0.75	2	0.6	1.1	0.3	1.4	20.3	521
8x3x0.75	2	0.6	1.1	0.3	1.7	26.6	860
12x3x0.75	2	0.6	1.4	0.3	1.8	31.3	1192
16x3x0.75	2	0.6	2.1	0.4	1.9	36.9	1603
19x3x0.75	2	0.6	2.3	0.4	2	39.9	1866
24x3x0.75	2	0.6	2.5	0.4	2.2	44.4	2395
1x2x1.5	2	0.7	1.1	0.2	1.1	13	214
2x2x1.5	2	0.7	1.1	0.3	1.4	20.1	454
4x2x1.5	2	0.7	1.1	0.3	1.5	23.2	648
8x2x1.5	2	0.7	1.1	0.3	1.7	27.3	947
12x2x1.5	2	0.7	1.4	0.3	1.9	36.5	1519

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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**
16x2x1.5	2	0.7	2.1	0.4	2	38.7	1810
19x2x1.5	2	0.7	1.9	0.4	2	40.9	2092
24x2x1.5	2	0.7	2.3	0.4	2.3	46.2	2657
1x3x1.5	2	0.7	1.1	0.2	1.1	13.6	259
2x3x1.5	2	0.7	1.1	0.3	1.5	21	508
4x3x1.5	2	0.7	1.1	0.3	1.6	23.8	730
8x3x1.5	2	0.7	1.1	0.3	1.8	31.1	1221
12x3x1.5	2	0.7	1.6	0.4	2	37.7	1765
16x3x1.5	2	0.7	2.3	0.4	2.2	43.9	2481
24x3x1.5	2	0.7	2.7	0.4	2.5	52.8	3527
1x2x2.5	2	0.7	1.1	0.2	1.2	14.1	258
2x2x2.5	2	0.7	1.1	0.3	1.5	16.5	423
4x2x2.5	2	0.7	1.1	0.3	1.6	23.7	733
8x2x2.5	2	0.7	1.1	0.3	1.8	29.8	1200
16x2x2.5	2	0.7	2.3	0.4	2.2	42.9	2466
8x3x2.5	2	0.7	1.3	0.3	2	34.7	1621
16x3x2.5	2	0.7	2.6	0.4	2.2	48.4	3224

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Without approvals

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**
1x2x1	2	0.6	1.0	0.2	1.1	11.9	187
5x2x1.5	2	0.7	1.1	0.3	1.5	25.1	754
6x2x1.5	2	0.7	1.1	0.3	1.6	27.4	870
10x2x1.5	2	0.7	1.1	0.3	1.8	34.6	1299
1x2x2.5	2	0.7	1.1	0.2	1.1	13.1	222
5x2x2.5	2	0.7	1.1	0.3	1.6	27.4	953
12x2x2.5	2	0.7	1.1	0.3	1.9	39.1	1838
20x2x2.5	2	0.7	1.2	0.4	2.2	49.1	2855
1x3x2.5	2	0.7	1.1	0.2	1.2	14.8	312
2x3x2.5	2	0.7	1.1	0.3	1.5	23.9	653
4x3x2.5	2	0.7	1.1	0.3	1.6	27.7	985
12x3x2.5	2	0.7	1.3	0.4	2.1	44.6	2532

Standard Print Legend

acc. to NEK TS 606:2016	acc. to NEK TS 606:2009
E.g. TF KABLE 3 BFOU (i) 250V S103 2 PAIR 0,75mm² IEC 60331-21 IEC 60332-3-22 IEC 60092-376	E.g. TF KABLE 3 BFOU (i) 250V S3/S7 2 PAIR 0,75mm² IEC 60331-21 IEC 60332-3-22 IEC 60092-376