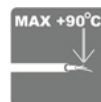


**BFOU (i) S3/S7 & BFOU (i) EMC 150/250(300)V
MGT/EPR/EPR/TCWB/EVA**



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



Picture is for information only.



Applicable standards:

NEK TS 606 Code S3/S7, IEC 60092-376- Design guidelines

IEC 60228 conductor

IEC 60092-351 Insulating material, IEC 60092-359 Sheathing materials

IEC 60332-1, IEC 60332-3-22 Flame retardant, IEC 60331 Fire resistant

IEC 60754-1,2 Halogen free, IEC 61034-1,2 Low Smoke

CONSTRUCTION

	Code Letter	
Conductors		Tinned annealed circular stranded copper according to IEC 60228 class 2
Insulation	B	Mica tape EP- thermosetting compound ,IEC 60092-351 (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.
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	Poliester or Cu/PET 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 60092-359)
Colour of outer sheath		Grey or Blue

Standard marking	E.g. TF KABLE 3 BFOU (i) 250V S3/S7 2 PAIR 0,75mm ² IEC 60331-21 IEC 60332-3-22 IEC 60092-376
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FEATURES

- **Maximum conductor operating temperature:** +90°C
- **Maximum conductor temperature during short circuit:** +250°C
- **Lowest ambient temperature for fixed installation:** -40°C
- **Lowest installation temperature:** -15°C
- **Minimum bending radius:** 6 D
D – overall diameter of cable
- **Flame retardant:** IEC 60332-3-22 (Category A)
- **Fire resistant:** IEC 60331
- **Smoke emission:** IEC 61034-2
- **Corrosive gas emission:** IEC 60754-1
- **Oil resistance:** IEC 60092-359 SHF2, IRM 902 (100°C/24h)
- **Mud resistance:** NEK 606 (SHF MUD, SHF2)

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
- **Marine** For fixed wiring installations on Oil and Gas Rigs, Shipboard and other marine applications requiring screened cable for EMC
- Other industrial applications

APPROVAL

DNV GL Certificate No: E 14152
ABS 15-GD 1357086-PDA

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		Inch	Inch	Inch	Inch	Inch	lb/1000ft
1x2x0,75	2	0,024	0,043	0,008	0,043	0,461	114,895
2x2x0,75	2	0,024	0,043	0,012	0,051	0,531	173,350
4x2x0,75	2	0,024	0,043	0,012	0,055	0,740	294,292
8x2x0,75	2	0,024	0,043	0,012	0,063	0,921	456,892
12x2x0,75	2	0,024	0,055	0,012	0,067	1,102	637,633
16x2x0,75	2	0,024	0,075	0,012	0,071	1,272	839,875
19x2x0,75	2	0,024	0,075	0,012	0,075	1,362	955,442
24x2x0,75	2	0,024	0,091	0,016	0,083	1,551	1262,500
1x3x0,75	2	0,024	0,043	0,008	0,043	0,480	134,380
2x3x0,75	2	0,024	0,043	0,012	0,055	0,717	258,010
4x3x0,75	2	0,024	0,043	0,012	0,055	0,799	350,060
8x3x0,75	2	0,024	0,043	0,012	0,067	1,047	577,834
12x3x0,75	2	0,024	0,055	0,012	0,071	1,232	800,905
16x3x0,75	2	0,024	0,083	0,016	0,075	1,453	1077,056
19x3x0,75	2	0,024	0,091	0,016	0,079	1,571	1253,765
24x3x0,75	2	0,024	0,098	0,016	0,087	1,748	1609,201
1x2x1,5	2	0,028	0,043	0,008	0,043	0,512	143,787
2x2x1,5	2	0,028	0,043	0,012	0,055	0,791	305,043
4x2x1,5	2	0,028	0,043	0,012	0,059	0,913	435,391
8x2x1,5	2	0,028	0,043	0,012	0,067	1,075	636,289
12x2x1,5	2	0,028	0,055	0,012	0,075	1,437	1020,616
16x2x1,5	2	0,028	0,083	0,016	0,079	1,524	1216,139
19x2x1,5	2	0,028	0,075	0,016	0,079	1,610	1405,615
24x2x1,5	2	0,028	0,091	0,016	0,091	1,819	1785,238
1x3x1,5	2	0,028	0,043	0,008	0,043	0,535	174,022
2x3x1,5	2	0,028	0,043	0,012	0,059	0,827	341,325
4x3x1,5	2	0,028	0,043	0,012	0,063	0,937	490,487
8x3x1,5	2	0,028	0,043	0,012	0,071	1,224	820,390
12x3x1,5	2	0,028	0,063	0,016	0,079	1,484	1185,904
16x3x1,5	2	0,028	0,091	0,016	0,087	1,728	1666,984
24x3x1,5	2	0,028	0,106	0,016	0,098	2,079	2369,791

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1x2x2,5	2	0,028	0,043	0,008	0,047	0,555	173,350
2x2x2,5	2	0,028	0,043	0,012	0,059	0,650	284,214
4x2x2,5	2	0,028	0,043	0,012	0,063	0,933	492,503
8x2x2,5	2	0,028	0,043	0,012	0,071	1,173	806,280
16x2x2,5	2	0,028	0,091	0,016	0,087	1,689	1656,905
8x3x2,5	2	0,028	0,051	0,012	0,079	1,366	1089,150
16x3x2,5	2	0,028	0,102	0,016	0,087	1,906	2166,206

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		Inch	Inch	Inch	Inch	Inch	Lb/1000ft
1x2x2,5	2	0,028	0,043	0,008	0,043	0,516	149,162
5x2x2,5	2	0,028	0,043	0,012	0,063	1,079	640,321
20x2x2,5	2	0,028	0,047	0,016	0,087	1,933	1918,275

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