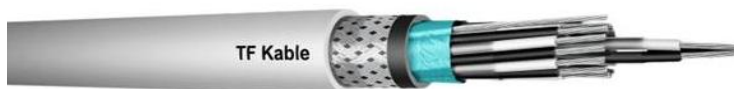


**Fire resistant, flame retardant halogen-free instrumentation cable  
Mud resistant**



Picture is for information only.

**Applicable standards:**

NEK TS 606 Code S4/S8, 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	
<b>Conductors</b>		Tinned annealed circular stranded copper according to IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica tape EP rubber thermosetting compound ,IEC 60092-351 (EPR)
<b>Pair, Triple, Quad twisting</b>		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.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen free thermosetting compound
<b>Armour/screen</b>	<b>O</b>	Poliester or Cu/PET tape & Tinned annealed copper wire braid
<b>For EMC cable</b>		Cu/PET tape under the braid
<b>Separator</b>		Separator, suitable tape between the braid and outer sheath
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen free and mud resistant thermosetting compound SHF2 (IEC 60092-359)
<b>Colour of outer sheath</b>		Grey or Blue
<b>Standard marking</b>		E.g. TF KABLE 3 BFOU (c) 250V S4/S8 2 PAIR 0,75mm <sup>2</sup> IEC 60331-21 IEC 60332-3-22 IEC 60092-376

## 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: E14152  
ABS 15-GD 1357086-PDA

### Standard length cable packing

1000m on drums. Other forms of packing and delivery are available on request

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
2x2x0,75	2	0,024	0,043	0,012	0,051	0,539	173,350
4x2x0,75	2	0,024	0,043	0,012	0,055	0,748	279,510
8x2x0,75	2	0,024	0,043	0,012	0,059	0,921	411,203
12x2x0,75	2	0,024	0,055	0,012	0,063	1,102	565,740
16x2x0,75	2	0,024	0,075	0,012	0,067	1,272	741,778
19x2x0,75	2	0,024	0,075	0,012	0,071	1,362	837,859
24x2x0,75	2	0,024	0,091	0,016	0,079	1,551	1048,836
2x3x0,75	2	0,024	0,043	0,012	0,051	0,717	249,947
4x3x0,75	2	0,024	0,043	0,012	0,055	0,807	333,934
8x3x0,75	2	0,024	0,043	0,012	0,063	0,894	472,346
12x3x0,75	2	0,024	0,055	0,012	0,071	1,240	733,043
16x3x0,75	2	0,024	0,083	0,016	0,075	1,461	982,990
24x3x0,75	2	0,024	0,098	0,016	0,083	1,748	1449,288
2x2x1,5	2	0,028	0,043	0,012	0,055	0,776	292,277
4x2x1,5	2	0,028	0,043	0,012	0,055	0,858	370,217
8x2x1,5	2	0,028	0,043	0,012	0,067	1,083	583,209
12x2x1,5	2	0,028	0,055	0,012	0,071	1,295	810,983
16x2x1,5	2	0,028	0,075	0,016	0,075	1,512	1061,602
24x2x1,5	2	0,028	0,091	0,016	0,091	1,827	1598,450
2x3x1,5	2	0,028	0,043	0,012	0,055	0,827	330,575
4x3x1,5	2	0,028	0,043	0,012	0,059	0,980	498,550
8x3x1,5	2	0,028	0,043	0,012	0,071	1,354	765,294
12x3x1,5	2	0,028	0,055	0,016	0,075	1,559	1060,258
16x3x1,5	2	0,028	0,091	0,016	0,083	1,732	1527,901
24x3x1,5	2	0,028	0,106	0,016	0,094	2,079	2156,799
2x2x2,5	2	0,028	0,043	0,012	0,055	0,654	270,104
4x2x2,5	2	0,028	0,043	0,012	0,059	0,933	458,908
8x2x2,5	2	0,7	0,043	0,012	0,071	1,185	741,106
16x2x2,5	2	0,7	0,091	0,016	0,083	1,689	1496,993
4x3x2,5	2	0,7	0,043	0,012	0,063	1,024	624,195
8x3x2,5	2	0,7	0,043	0,012	0,075	1,354	989,037
16x3x2,5	2	0,7	0,102	0,016	0,091	1,925	2031,154

Without approvals

Size	Insulation thickness	Thickness Inner covering	Diameter of braid wire	Thickness Outer covering	Approx. Outer Diameter	Approx. weight of cable
Nxmm <sup>2</sup>	Inch	Inch	Inch	Inch	Inch	lb/1000ft
4x2x1	0,024	0,024	0,012	0,055	0,795	325,200
5x2x1	0,024	0,039	0,012	0,055	0,858	366,186
6x2x1	0,024	0,039	0,012	0,059	0,933	419,938
12x2x1	0,024	0,039	0,012	0,067	1,209	666,525
5x3x1	0,024	0,039	0,012	0,059	0,949	459,580
5x2x1,5	0,028	0,039	0,012	0,059	0,961	456,220
6x2x1,5	0,028	0,039	0,012	0,063	1,043	519,379
19x2x1,5	0,028	0,047	0,012	0,079	1,685	1234,280
20x2x1,5	0,028	0,047	0,016	0,083	1,709	1354,550
6x3x1,5	0,028	0,039	0,012	0,067	1,157	663,165



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