RFOU (c) S2/S6 & RFOU (c) EMC

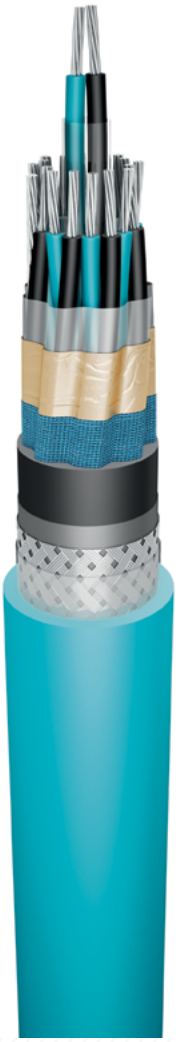
150/250 (300) V
EPR/EPR/TCWB/EVA

NEK TS 606 Code S2/S6, IEC 60092-376-Design guidelines

Flame retardant halogen-free instrumentation cable. Mud resistant

CONSTRUCTION

	Code letter	
Conductors		Tinned annealed circular stranded copper according to IEC 60228 class 2 or class 5
Insulation	**R**	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.
Inner covering	**F**	Flame retardant and halogen-free thermosetting compound
Armour/screen	**O**	PET tape & Tinned annealed copper wire braid
For EMC cable		Cu/PET tape under the braid
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)
Colour of outer sheath		Grey or blue
Standard marking		E.g. TF KABLE 3 RFOU (c) 250 V S2/S6 2 PAIR 0.75 mm^2 IEC 60332-3-22 IEC 60092-376



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CHARACTERISTIC

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
Oil resistance:	IEC 60092-360 SHF2, I RM 902 (100°C/24h)
Mud resistance:	NEK 606 (SHF MUD, SHF2)
Minimum bending radius:	6 D D – overall diameter of cable

Fire performance

Flame retardant	IEC 60332-3-22 (Category A)
Smoke emission:	IEC 61034-2
Corrosive gas emission:	IEC 60754-1

Applications

- Fixed installation for instrumentation, communication, control and alarm system in both EX- and safe areas
- 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

Approvals

DNV-GL, ABS

Details related to particular Approvals are informative only. Please contact manufacturer to confirm whether the required cross-sections are covered by the Certificate.

Standard length cable packing:	1,000 m 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 × 2 × mm²		**mm**	**mm**	**mm**	**mm**	**mm**	**kg/km**
2 × 2 × 0.75	2	0.6	1.1	0.2	1.2	11.4	187
4 × 2 × 0.75	2	0.6	1.1	0.3	1.3	15.9	337
8 × 2 × 0.75	2	0.6	1.1	0.3	1.5	21.7	496
12 × 2 × 0.75	2	0.6	1.4	0.3	1.5	24.4	685
16 × 2 × 0.75	2	0.6	1.9	0.3	1.6	26.5	899
19 × 2 × 0.75	2	0.6	1.9	0.3	1.7	28.3	1,017
24 × 2 × 0.75	2	0.6	2.1	0.3	1.8	31.3	1,231
2 × 3 × 0.75	2	0.6	1.1	0.3	1.3	15.4	306
4 × 3 × 0.75	2	0.6	1.1	0.3	1.3	17	403
8 × 3 × 0.75	2	0.6	1.1	0.3	1.6	21.8	639
12 × 3 × 0.75	2	0.6	1.4	0.3	1.6	25.5	879
16 × 3 × 0.75	2	0.6	2.1	0.3	1.7	29.9	1,183
24 × 3 × 0.75	2	0.6	2.5	0.4	2	36.3	1,680
2 × 2 × 1.5	2	0.7	1.1	0.3	1.3	13.6	288
4 × 2 × 1.5	2	0.7	1.1	0.3	1.4	18.8	475
8 × 2 × 1.5	2	0.7	1.1	0.3	1.6	23.3	740
10 × 2 × 1.5	2	0.7	1.2	0.3	1.7	26.4	900
12 × 2 × 1.5	2	0.7	1.4	0.3	1.7	27.9	1,031
16 × 2 × 1.5	2	0.7	1.9	0.3	1.8	32.2	1,353
19 × 2 × 1.5	2	0.7	1.9	0.3	1.9	34.4	1,543
24 × 2 × 1.5	2	0.7	2.3	0.3	2.1	39.1	1,932
2 × 3 × 1.5	2	0.7	1.1	0.3	1.4	18.2	420
4 × 3 × 1.5	2	0.7	1.1	0.3	1.4	20.3	585
8 × 3 × 1.5	2	0.7	1.1	0.3	1.7	26.5	975
12 × 3 × 1.5	2	0.7	1.4	0.3	1.8	31.1	1,357
16 × 3 × 1.5	2	0.7	2.1	0.4	1.9	36.7	1,810
24 × 3 × 1.5	2	0.7	2.5	0.4	2.2	44.1	2,593
2 × 2 × 2.5	2	0.7	1.1	0.3	1.4	14.8	358
4 × 2 × 2.5	2	0.7	1.1	0.3	1.4	20.6	594
8 × 2 × 2.5	2	0.7	2.1	0.3	1.8	28.1	1,110
12 × 2 × 2.5	2	0.7	2.1	0.3	1.8	32.4	1,460

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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 × 2 × mm²		**mm**	**mm**	**mm**	**mm**	**mm**	**kg/km**
6 × 2 × 0.75	2	0.6	1.1	0.3	1.4	19.0	451
10 × 2 × 0.75	2	0.6	1.1	0.3	1.5	23.3	629
14 × 2 × 0.75	2	0.6	1.4	0.3	1.6	25.8	797
1 × 2 × 1	2	0.6	1.0	0.2	1.1	11.8	199
2 × 2 × 1	2	0.6	1.0	0.2	1.2	14.5	250
4 × 2 × 1	2	0.6	1.0	0.3	1.4	20.1	484
6 × 2 × 1	2	0.6	1.0	0.3	1.4	19.6	490
10 × 2 × 1	2	0.6	1.0	0.3	1.5	24.2	702
12 × 2 × 1	2	0.6	1.0	0.3	1.6	25.1	775
3 × 2 × 1.5	2	0.7	1.0	0.3	1.3	17.6	408
5 × 2 × 1.5	2	0.7	1.0	0.3	1.4	20.7	552
6 × 3 × 1.5	2	0.7	1.0	0.3	1.6	24.8	803
20 × 2 × 1.5	2	0.7	1.0	0.3	1.9	35.4	1,479
16 × 2 × 2.5	2	0.7	1.0	0.3	1.9	35.8	1,648
24 × 2 × 2.5	2	0.7	1.2	0.4	2.2	45.1	2,496
4 × 3 × 2.5	2	0.7	1.0	0.3	1.5	23.2	761
16 × 3 × 2.5	2	0.7	1.2	0.4	2.1	40.9	2,373