



# RFOU (c) S102 & RFOU (c) EMC 150/250 (300) V

# RFOU (c) S2/S6 & RFOU (c) EMC 150/250 (300) V

# EPR/EVA/TCWB/EVA

NEK TS 606:2016, Code S102, NEK TS 606:2009, Code S2/S6, 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 60754-1.2 Halogen free, IEC 61034-1.2 Low Smoke

Flame retardant halogen-free instrumentation cable. Mud resistant

## 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

## 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



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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	Smoke emission: IEC 61034-2
Lowest ambient temperature for fixed installation: -40°C	Corrosive gas emission: IEC 60754-1
Lowest installation temperature: -15°C	Oil resistance: IEC 60092-360 SHF2, IRM 902 (100°C/24h)
Minimum bending radius: 6 D D – overall diameter of cable	Mud resistance: NEK 606 (SHF MUD, SHF2)

## Approvals

ABS Certificate No:	20-GD1953783-PDA
DNV:	TAE00001WV
Standard length cable packing	1000 m on drums. Other forms of packing and delivery are available on request

# RFOU (c) S102 & RFOU (c) EMC RFOU (c) S2/S6 & RFOU (c) EMC EPR/EVA/TCWB/EVA

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
<b>N x 2 x mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>
2x2x0.75	2	0.6	1.1	0.2	1.2	11.4	187
4x2x0.75	2	0.6	1.1	0.3	1.3	15.9	337
8x2x0.75	2	0.6	1.1	0.3	1.5	21.7	496
12x2x0.75	2	0.6	1.4	0.3	1.5	24.4	685
16x2x0.75	2	0.6	1.9	0.3	1.6	26.5	899
19x2x0.75	2	0.6	1.9	0.3	1.7	28.3	1017
24x2x0.75	2	0.6	2.1	0.3	1.8	31.3	1231
2x3x0.75	2	0.6	1.1	0.3	1.3	15.4	306
4x3x0.75	2	0.6	1.1	0.3	1.3	17	403
8x3x0.75	2	0.6	1.1	0.3	1.6	21.8	639
12x3x0.75	2	0.6	1.4	0.3	1.6	25.5	879
16x3x0.75	2	0.6	2.1	0.3	1.7	29.9	1183
24x3x0.75	2	0.6	2.5	0.4	2	36.3	1680
2x2x1.5	2	0.7	1.1	0.3	1.3	13.6	288
4x2x1.5	2	0.7	1.1	0.3	1.4	18.8	475
8x2x1.5	2	0.7	1.1	0.3	1.6	23.3	740
10x2x1.5	2	0.7	1.2	0.3	1.7	26.4	900
12x2x1.5	2	0.7	1.4	0.3	1.7	27.9	1031
16x2x1.5	2	0.7	1.9	0.3	1.8	32.2	1353
19x2x1.5	2	0.7	1.9	0.3	1.9	34.4	1543
24x2x1.5	2	0.7	2.3	0.3	2.1	39.1	1932

# RFOU (c) S102 & RFOU (c) EMC RFOU (c) S2/S6 & RFOU (c) EMC EPR/EVA/TCWB/EVA

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
<b>N x 2 x mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>
2x3x1.5	2	0.7	1.1	0.3	1.4	18.2	420
4x3x1.5	2	0.7	1.1	0.3	1.4	20.3	585
8x3x1.5	2	0.7	1.1	0.3	1.7	26.5	975
12x3x1.5	2	0.7	1.4	0.3	1.8	31.1	1357
16x3x1.5	2	0.7	2.1	0.4	1.9	36.7	1810
24x3x1.5	2	0.7	2.5	0.4	2.2	44.1	2593
2x2x2.5	2	0.7	1.1	0.3	1.4	14.8	358
4x2x2.5	2	0.7	1.1	0.3	1.4	20.6	594
8x2x2.5	2	0.7	2.1	0.3	1.8	28.1	1110
12x2x2.5	2	0.7	2.1	0.3	1.8	32.4	1460

## 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
<b>N x 2 x mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>
6x2x0.75	2	0.6	1.1	0.3	1.4	19.0	451
10x2x0.75	2	0.6	1.1	0.3	1.5	23.3	629
14x2x0.75	2	0.6	1.4	0.3	1.6	25.8	797
1x2x1	2	0.6	1.0	0.2	1.1	11.8	199
2x2x1	2	0.6	1.0	0.2	1.2	14.5	250

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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
<b>N x 2 x mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>
4x2x1	2	0.6	1.0	0.3	1.4	20.1	484
6x2x1	2	0.6	1.0	0.3	1.4	19.6	490
10x2x1	2	0.6	1.0	0.3	1.5	24.2	702
12x2x1	2	0.6	1.0	0.3	1.6	25.1	775
3x2x1.5	2	0.7	1.0	0.3	1.3	17.6	408
5x2x1.5	2	0.7	1.0	0.3	1.4	20.7	552
6x3x1.5	2	0.7	1.0	0.3	1.6	24.8	803
20x2x1.5	2	0.7	1.0	0.3	1.9	35.4	1479
16x2x2.5	2	0.7	1.0	0.3	1.9	35.8	1648
24x2x2.5	2	0.7	1.2	0.4	2.2	45.1	2496
4x3x2.5	2	0.7	1.0	0.3	1.5	23.2	761
16x3x2.5	2	0.7	1.2	0.4	2.1	40.9	2373

## Standard Print Legend

acc.to NEK TS 606:2016

E.g. TF KABLE 3 RFOU (c) 250V S102 2 PAIR 0,75mm<sup>2</sup> IEC 60332-3-22 IEC 60092-376

acc. to NEK TS 606:2009

E.g. TF KABLE 3 RFOU (c) 250V S2/S6 2 PAIR 0,75mm<sup>2</sup> IEC 60332-3-22 IEC 60092-376

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