



RFOU (i) S101 & RFOU (i) EMC 150/250 (300) V

RFOU (i) S1/S5 & RFOU (i) EMC 150/250 (300) V

EPR/EVA/TCWB/EVA

NEK TS 606:2016, Code S101, NEK TS 606:2009, Code S1/S5, 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. 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



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

	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	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	1000m 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
N x 2 x mm²		mm	mm	mm	mm	mm	kg/km
1x2x0.75	2	0.6	1.1	0.2	1.1	10.3	148
2x2x0.75	2	0.6	1.1	0.2	1.2	14.4	248
4x2x0.75	2	0.6	1.1	0.3	1.3	15.6	355
8x2x0.75	2	0.6	1.1	0.3	1.5	19.2	554
12x2x0.75	2	0.6	1.4	0.3	1.6	22.9	775
16x2x0.75	2	0.6	1.9	0.3	1.7	26.5	1024
19x2x0.75	2	0.6	1.9	0.3	1.7	28.1	1153
24x2x0.75	2	0.6	2.1	0.3	1.9	31.3	1421
1x3x0.75	2	0.6	1.1	0.2	1.1	10.6	162
2x3x0.75	2	0.6	1.1	0.3	1.3	15.2	308
4x3x0.75	2	0.6	1.1	0.3	1.4	17	429
8x3x0.75	2	0.6	1.1	0.3	1.6	21.7	698
12x3x0.75	2	0.6	1.4	0.3	1.7	25.5	972
16x3x0.75	2	0.6	2.1	0.3	1.8	29.8	1310
19x3x0.75	2	0.6	2.1	0.3	1.8	31.7	1482
24x3x0.75	2	0.6	2.5	0.4	2	36.1	1859
1x2x1.5	2	0.7	1.1	0.2	1.1	11.6	187
2x2x1.5	2	0.7	1.1	0.3	1.3	17.6	384
4x2x1.5	2	0.7	1.1	0.3	1.4	20.0	546
8x2x1.5	2	0.7	1.1	0.3	1.7	23.1	809
12x2x1.5	2	0.7	1.4	0.3	1.8	27.8	1156

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
N x 2 x mm²		mm	mm	mm	mm	mm	kg/km
16x2x1.5	2	0.7	1.9	0.3	1.9	32.1	1524
19x2x1.5	2	0.7	1.9	0.3	1.9	34.2	1732
24x2x1.5	2	0.7	2.3	0.4	2.2	39.1	2287
1x3x1.5	2	0.7	1.1	0.2	1.1	12.2	216
2x3x1.5	2	0.7	1.1	0.3	1.4	18	428
4x3x1.5	2	0.7	1.1	0.3	1.5	20.2	622
8x3x1.5	2	0.7	1.1	0.3	1.8	26.3	1047
12x3x1.5	2	0.7	1.4	0.3	1.9	31.1	1488
16x3x1.5	2	0.7	2.3	0.4	2	37.1	2030
24x3x1.5	2	0.7	2.5	0.4	2.3	44.1	2983
1x2x2.5	2	0.7	1.1	0.2	1.1	12.4	222
2x2x2.5	2	0.7	1.1	0.3	1.4	14.6	368
4x2x2.5	2	0.7	1.1	0.3	1.5	20.5	637

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 X x mm²		mm	mm	mm	mm	mm	kg/km
5x2x0.75	2	0.6	1.1	0.3	1.3	18.1	444
10x2x0.75	2	0.6	1.1	0.3	1.5	24.1	734
20x2x0.75	2	0.6	1.9	0.3	1.7	31.9	1321

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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 X x mm²		mm	mm	mm	mm	mm	kg/km
1x2x1	2	0.6	1.1	0.2	1.1	10.6	162
1x3x1	2	0.6	1.1	0.2	1.1	11.0	181
1x4x1	2	0.6	1.1	0.2	1.1	11.7	206
4x2x2.5	2	0.7	1.1	0.3	1.5	21.9	677
8x2x2.5	2	0.7	1.1	0.3	1.7	29.9	1167
16x2x2.5	2	0.7	1.1	0.3	1.9	37.2	1969
24x2x2.5	2	0.7	1.2	0.4	2.2	46.7	2968
1x3x2.5	2	0.7	1	0.2	1.2	13.0	265
4x3x2.5	2	0.7	1.1	0.3	1.5	24.0	840
16x3x2.5	2	0.7	1.2	0.4	2.1	42.2	2705
1x4x2.5	2	0.7	1	0.2	1.2	13.9	309
4x3x1	2	0.6	1	0.3	1.4	22.5	635

Standard Print Legend

acc.to NEK TS 606:2016

E.g. TF KABLE 3 RFOU (i) 250V S101 2 PAIR 0,75mm² IEC 60332-3-22 IEC 60092-376

acc.to NEK TS 606:2009

E.g. TF KABLE 3 RFOU (i) 250V S1/S5 2 PAIR 0,75mm² IEC 60332-3-22 IEC 60092-376

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