



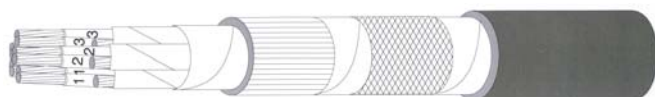
## FlexFlame RFOU(i) 250V S1/S5 Instr. cable

Flame retardant halogen-free instrumentation cable. Mud resistant

### RFOU(i) 250V

EPR/EPR/TCWB/EVA

NEK 606 CodeS1/S5



Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- and safe areas. Meets the mud resistant requirements in NEK 606.

#### Standards applied

- IEC 60092-376 (2003-05) - Design
- IEC 60228 class 2 - Conductor
- IEC 60092-351 - Insulation
- IEC 60092-359 - Sheath
- IEC 60332-1 - Flame Retardant
- IEC 60332-3-22 - Flame Retardant
- IEC 600754-1,2 - Halogen Free
- IEC 61034-1,2 - Low Smoke

#### Construction

	Code Letter	
Conductor		Tinned stranded circular copper (STCC), IEC 60228 class 2
Insulation	R	EP-rubber, 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.
Inner covering	F	Flame retardant and halogen-free thermoset compound
Tape over inner covering		PET tape
Armour/screen	O	Tinned copper wire braid
Tape over armour/screen		PET tape
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL RFOU(i) 250V S1/S5 4 PAIR 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22 ETL Classified No. 3067229
Outer sheath colour		Grey



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### Core identification instrumentation cables

Pair                               Black - Light Blue  
 Triple                            Black - Light Blue - Brown  
 Quad                             Black - Light Blue - Brown - Grey

### Range and dimensions

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10 ± 0.8	185	56
1	2	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10 ± 0.8	185	56
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	280	89
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	280	89
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	440	173
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	440	173
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	720	279
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	720	279
12	2	0.75	1.1	0.6	1.3	18.5 ± 0.8	0.3	1.6	22.5 ± 1	940	369
12	2	0.75	1.1	0.6	1.3	18.5 ± 0.8	0.3	1.6	22.5 ± 1	940	369
16	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1180	467
16	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1180	467
24	2	0.75	1.1	0.6	1.6	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1650	638
24	2	0.75	1.1	0.6	1.6	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1650	638
1	3	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10.5 ± 0.8	200	63
1	3	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10.5 ± 0.8	200	63
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	151
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	151
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	530	218
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	530	218
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	870	352
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	870	352
12	3	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1170	479
16	3	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	28 ± 1	1470	605
24	3	0.75	1.1	0.6	1.8	29 ± 1	0.3	2	34.5 ± 1.5	2150	858
24	3	0.75	1.1	0.6	1.8	29 ± 1	0.3	2	34.5 ± 1.5	2150	858
1	2	1.5	1.6	0.7	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	230	72
1	2	1.5	1.6	0.7	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	230	72
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	420	169



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Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	420	169
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	600	253
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	600	253
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	1000	424
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	1000	424
12	2	1.5	1.6	0.7	1.3	23 ± 1	0.3	1.8	27.5 ± 1	1370	585
12	2	1.5	1.6	0.7	1.3	23 ± 1	0.3	1.8	27.5 ± 1	1370	585
16	2	1.5	1.6	0.7	1.4	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1730	747
16	2	1.5	1.6	0.7	1.4	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1730	747
19	2	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1940	875
19	2	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1940	875
24	2	1.5	1.6	0.7	1.8	32 ± 1.5	0.4	2.2	38 ± 1.5	2660	1176
32	2	1.5	1.6	0.7	1.9	35.5 ± 1.5	0.4	2.3	42 ± 2	3320	1494
32	2	1.5	1.6	0.7	1.9	35.5 ± 1.5	0.4	2.3	42 ± 2	3320	1494
1	3	1.5	1.6	0.7	1.1	8.5 ± 0.5	0.2	1.1	11.5 ± 0.8	260	93
1	3	1.5	1.6	0.7	1.1	8.5 ± 0.5	0.2	1.1	11.5 ± 0.8	260	93
2	3	1.5	1.6	0.7	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	510	213
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	20 ± 1	740	326
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	20 ± 1	740	326
8	3	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1250	561
8	3	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1250	561
16	3	1.5	1.6	0.7	1.6	29.5 ± 1	0.3	2	34.5 ± 1.5	2250	998
16	3	1.5	1.6	0.7	1.6	29.5 ± 1	0.3	2	34.5 ± 1.5	2250	998
24	3	1.5	1.6	0.7	1.8	36.5 ± 1.5	0.4	2.3	42.5 ± 2	3370	1559
24	3	1.5	1.6	0.7	1.8	36.5 ± 1.5	0.4	2.3	42.5 ± 2	3370	1559
1	2	2.5	2	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	280	99
2	2	2.5	2	0.7	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	530	224



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### Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

### Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
892000	RFOU(I) 1PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920000	1044620
892001	RFOU(I) 1PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920017	1044619
892006	RFOU(I) 2PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920062	1044621
892007	RFOU(I) 2PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920079	1044622
892018	RFOU(I) 4PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920185	1044623
892019	RFOU(I) 4PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920192	1044624
892030	RFOU(I) 8PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920307	1044628
892031	RFOU(I) 8PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920314	1044629
892036	RFOU(I) 12PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920369	1044630
892037	RFOU(I) 12PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920376	1044631
892042	RFOU(I) 16PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920420	1044633
892043	RFOU(I) 16PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920437	1044632
892048	RFOU(I) 24PAIR 0.75mm <sup>2</sup> S1/S5	GREY	7021528920482	1044636
892049	RFOU(I) 24PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920499	1044637
892060	RFOU(I) 1TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528920604	1044690
892061	RFOU(I) 1TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920611	1044689
892066	RFOU(I) 2TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528920666	1044691
892067	RFOU(I) 2TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920673	1044692
892078	RFOU(I) 4TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528920789	1044693
892079	RFOU(I) 4TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920796	1044694
892090	RFOU(I) 8TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528920901	1044697
892091	RFOU(I) 8TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920918	1044698
892097	RFOU(I) 12TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528920970	1044700
892102	RFOU(I) 16TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528921021	1044701
892108	RFOU(I) 24TRIP 0.75mm <sup>2</sup> S1/S5	GREY	7021528921083	1044707
892109	RFOU(I) 24TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	7021528921090	1044708
892200	RFOU(I) 1PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922004	1044460
892201	RFOU(I) 1PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922011	1044459
892206	RFOU(I) 2PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922066	1044661
892207	RFOU(I) 2PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922073	1044662
892218	RFOU(I) 4PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922189	1044663
892219	RFOU(I) 4PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922196	1044664
892230	RFOU(I) 8PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922301	1044668
892231	RFOU(I) 8PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922318	1044669
892236	RFOU(I) 12PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922363	1044670
892237	RFOU(I) 12PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922370	1044671
892242	RFOU(I) 16PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922424	1044673
892243	RFOU(I) 16PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922431	1044672
892245	RFOU(I) 19PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922455	1044674
892246	RFOU(I) 19PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922462	-
892249	RFOU(I) 24PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922493	1044679



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Part number	Description	Sheath Colour	EAN No. DNK	EL No.
892254	RFOU(I) 32PAIR 1.5mm <sup>2</sup> S1/S5	GREY	7021528922547	-
892255	RFOU(I) 32PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922554	-
892260	RFOU(I) 1TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528922608	1044560
892261	RFOU(I) 1TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922615	1044559
892266	RFOU(I) 2TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528922660	1044762
892278	RFOU(I) 4TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528922783	1044764
892279	RFOU(I) 4TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922790	-
892290	RFOU(I) 8TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528922905	1044768
892291	RFOU(I) 8TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	7021528922912	1044769
892302	RFOU(I) 16TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528923025	1044773
892303	RFOU(I) 16TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	7021528923032	1044772
892308	RFOU(I) 24TRIP 1.5mm <sup>2</sup> S1/S5	GREY	7021528923087	1044779
892309	RFOU(I) 24TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	7021528923094	1044780
892400	RFOU(I) 1PAIR 2.5mm <sup>2</sup> S1/S5	GREY	7021528924008	-
892406	RFOU(I) 2PAIR 2.5mm <sup>2</sup> S1/S5	GREY	7021528924060	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C