

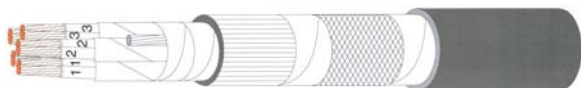
# FlexFlame RFOU(c) 150/250(300)V S2/S6 Instr. cable

Flame retardant halogen-free instrumentation cable. Mud resistant

## RFOU(c) 150/250(300)V

EPR/EPR/TCWB/EVA

NEK TS 606 CodeS2/S6



Operating temperature : 90°C  
Operating Voltage : 150/250(300)V

### Standards applied

### Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- and safe areas. Meets the mud resistant requirements in NEK TS 606:2009.

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 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, 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 thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 RFOU(c) 250V S2/S6 8 PAIR 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22
<b>Manufacturing unit</b>		DRAKA 01 = Draka Norsk Kabel,
<b>Outer sheath colour</b>		Grey or Blue

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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	Mechanical cross-section of the braid, mm <sup>2</sup>	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	5.3	1.2	13 ± 0.8	270	81
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	5.3	1.2	13 ± 0.8	270	81
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	8.5	1.3	15 ± 0.8	390	138
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	8.5	1.3	15 ± 0.8	390	139
8	2	0.75	1.1	0.6	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	600	223
8	2	0.75	1.1	0.6	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	600	223
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	0.3	15.3	1.5	22 ± 1	820	307
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	0.3	15.3	1.5	22 ± 1	820	307
16	2	0.75	1.1	0.6	1.9	20.5 ± 1	0.3	15.3	1.6	24.5 ± 1	1040	358
16	2	0.75	1.1	0.6	1.9	20.5 ± 1	0.3	15.3	1.6	24.5 ± 1	1040	358
19	2	0.75	1.1	0.6	1.9	21.5 ± 1	0.3	17.8	1.7	26 ± 1	1170	422
24	2	0.75	1.1	0.6	2.1	25 ± 1	0.3	20.4	1.8	29.5 ± 1	1450	510
24	2	0.75	1.1	0.6	2.1	25 ± 1	0.3	20.4	1.8	29.5 ± 1	1450	510
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	350	126
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	350	126
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	10.2	1.3	16.5 ± 0.8	470	181
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	10.2	1.3	16.5 ± 0.8	470	181
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	13.6	1.5	21 ± 1	740	291
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	13.6	1.5	21 ± 1	740	291
12	3	0.75	1.1	0.6	1.4	20 ± 1	0.3	15.3	1.6	24.5 ± 1	1010	385
12	3	0.75	1.1	0.6	1.4	20 ± 1	0.3	15.3	1.6	24.5 ± 1	1010	385
16	3	0.75	1.1	0.6	2.1	23 ± 1	0.3	17.8	1.7	27.5 ± 1	1350	488
24	3	0.75	1.1	0.6	2.5	28.5 ± 1	0.3	22.9	2	33.5 ± 1.5	1950	692
24	3	0.75	1.1	0.6	2.5	28.5 ± 1	0.3	22.9	2	33.5 ± 1.5	1950	692
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	410	162
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	410	162
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	560	234
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	560	234
8	2	1.5	1.6	0.7	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	890	379
8	2	1.5	1.6	0.7	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	890	379
10	2	1.5	1.6	0.7	1.2	21 ± 1	0.3	17.8	1.7	25.5 ± 1	1070	459
10	2	1.5	1.6	0.7	1.2	21 ± 1	0.3	17.8	1.7	25.5 ± 1	1070	459
12	2	1.5	1.6	0.7	1.4	22 ± 1	0.3	17.8	1.7	26.5 ± 1	1210	515
12	2	1.5	1.6	0.7	1.4	22 ± 1	0.3	17.8	1.7	26.5 ± 1	1210	515
16	2	1.5	1.6	0.7	1.9	25 ± 1	0.3	20.4	1.8	29.5 ± 1	1580	651
16	2	1.5	1.6	0.7	1.9	25 ± 1	0.3	20.4	1.8	29.5 ± 1	1580	651
19	2	1.5	1.6	0.7	1.9	26.5 ± 1	0.3	20.4	1.9	31 ± 1.5	1750	735
24	2	1.5	1.6	0.7	2.3	31 ± 1.5	0.3	25.4	2.1	36.5 ± 1.5	2270	924
32	2	1.5	1.6	0.7	2.4	34 ± 1.5	0.4	36.2	2.2	40 ± 2	2890	1252
32	2	1.5	1.6	0.7	2.4	34 ± 1.5	0.4	36.2	2.2	40 ± 2	2890	1252
2	3	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	10.2	1.4	17 ± 0.8	480	190
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	11.9	1.4	19.5 ± 0.8	670	291

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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	Mechanical cross-section of the braid, mm <sup>2</sup>	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
8	3	1.5	1.6	0.7	1.1	0.8	0.3	17.8	1.7	0.8	1130	517
12	3	1.5	1.6	0.7	1.4	21 ± 1	0.3	20.4	1.8	25.5 ± 1	1570	710
12	3	1.5	1.6	0.7	1.4	24.5 ± 1	0.3	20.4	1.8	29.5 ± 1	1570	710
16	3	1.5	1.6	0.7	2.1	24.5 ± 1	0.3	22.9	1.9	33 ± 1.5	2090	903
16	3	1.5	1.6	0.7	2.1	28 ± 1	0.3	22.9	1.9	33 ± 1.5	2090	903
24	3	1.5	1.6	0.7	2.5	35 ± 1.5	0.4	36.2	2.2	41 ± 2	3120	1369
24	3	1.5	1.6	0.7	2.5	35 ± 1.5	0.4	36.2	2.2	41 ± 2	3120	1369
2	2	2.5	2	0.7	1.1	13.5 ± 0.8	0.3	10.2	1.4	17.5 ± 0.8	490	200
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	11.9	1.4	19.5 ± 0.8	680	309
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	11.9	1.4	19.5 ± 0.8	680	309
12	2	2.5	2	0.7	2.1	27 ± 1	0.3	20.4	1.8	31.5 ± 1.5	1740	759

### 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)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	26,3	12,7
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	26,3	12,7
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,9	24,4
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,9	24,4
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	8,02	36,8
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	8,02	36,8

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892606	RFOU(C) 2PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926064	1044421
892607	RFOU(C) 2PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926071	1044422
892618	RFOU(C) 4PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926187	1044423
892619	RFOU(C) 4PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926194	1044424
892630	RFOU(C) 8PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926309	1044428
892631	RFOU(C) 8PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926316	1044429
892636	RFOU(C) 12PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926361	1044430
892637	RFOU(C) 12PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926378	1044431
892642	RFOU(C) 16PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926422	1044433
892643	RFOU(C) 16PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926439	1044432
892645	RFOU(C) 19PAIR 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926453	1044434
892648	RFOU(C) 24PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926484	1044438
892649	RFOU(C) 24PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926491	1044437
892666	RFOU(C) 2TRIP 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926668	1044490
892667	RFOU(C) 2TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926675	1044491
892678	RFOU(C) 4TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926781	1044492
892679	RFOU(C) 4TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926798	1044493
892690	RFOU(C) 8TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926903	1044496
892691	RFOU(C) 8TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926910	1044497
892696	RFOU(C) 12TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926965	1044499
892697	RFOU(C) 12TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926972	1044500
892702	RFOU(C) 16TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528927023	1044501
892708	RFOU(C) 24TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528927085	1044507
892709	RFOU(C) 24TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528927092	1044508
892806	RFOU(C) 2PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928068	1044461
892807	RFOU(C) 2PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928075	1044462

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892818	RFOU(C) 4PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928181	1044463
892819	RFOU(C) 4PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928198	1044464
892830	RFOU(C) 8PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928303	1044468
892831	RFOU(C) 8PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928310	1044469
892834	RFOU(C) 10PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928341	-
892835	RFOU(C) 10PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928358	-
892836	RFOU(C) 12PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928365	1044470
892837	RFOU(C) 12PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928372	-
892842	RFOU(C) 16PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928426	1044472
892843	RFOU(C) 16PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928433	1044473
892845	RFOU(C) 19PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928457	1044474
892848	RFOU(C) 24PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928488	1044478
892854	RFOU(C) 32PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928549	-
892855	RFOU(C) 32PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928556	-
892866	RFOU(C) 2TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928662	1044561
892878	RFOU(C) 4TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928785	1044563
892891	RFOU(C) 8TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928914	1044568
892896	RFOU(C) 12TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928969	1044569
892897	RFOU(C) 12TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928976	1044570
892902	RFOU(C) 16TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528929027	1044571
892903	RFOU(C) 16TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528929034	1044572
892908	RFOU(C) 24TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528929089	1044577
892909	RFOU(C) 24TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528929096	1044578
893006	RFOU(C) 2PAIR 2.5mm <sup>2</sup> S2/S6	GREY	-	7021528930061	-
893018	RFOU(C) 4PAIR 2.5mm <sup>2</sup> S2/S6	GREY	-	7021528930184	-
893019	RFOU(C) 4PAIR 2.5mm <sup>2</sup> S2/S6	BLUE	-	7021528930191	-
893036	RFOU(C) 12PAIR 2.5mm <sup>2</sup> S2/S6	GREY	-	7021528930368	-

### 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