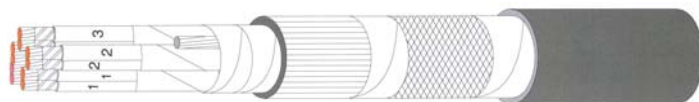




FlexFlame BFOU(c) 250V S4/S8 Instr. cable



**Fire resistant, flame retardant
halogen-free instrumentation cable.
Mud resistant**

BFOU(c) 250V

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeS4/S8

Operating temperature : 90°C
Operating Voltage : 250V

Standards applied

Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. Meets the mud resistant requirements in NEK 606.

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 60331-21, -31	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	B	Mica-tape + EP-rubber, IEC 60092-351 (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 numbered tape or by numbers printed directly on the insulated conductors.
Inner covering	F	Flame retardant and halogen-free thermoplastic compound
Tape over inner covering		PET tape
Armour/screen	O	Tinned annealed 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		Eg. "meter" "year" DRAKA 01 BFOU(c) 250V S4/S8 4 PAIR 0,75 mm ² FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel
Outer sheath colour		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 ²	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	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	340	113
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	340	113
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16 ± 0.8	450	155
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16 ± 0.8	450	155
8	2	0.75	1.1	0.6	1.1	16.5 ± 0.8	0.3	1.5	20.5 ± 1	680	240
8	2	0.75	1.1	0.6	1.1	16.5 ± 0.8	0.3	1.5	20.5 ± 1	680	240
12	2	0.75	1.1	0.6	1.3	19.5 ± 0.8	0.3	1.6	23.5 ± 1	920	332
12	2	0.75	1.1	0.6	1.3	19.5 ± 0.8	0.3	1.6	23.5 ± 1	920	332
16	2	0.75	1.1	0.6	1.9	22 ± 1	0.3	1.7	26.5 ± 1	1170	383
16	2	0.75	1.1	0.6	1.9	22 ± 1	0.3	1.7	26.5 ± 1	1170	383
19	2	0.75	1.1	0.6	1.9	23 ± 1	0.3	1.8	28 ± 1	1320	447
24	2	0.75	1.1	0.6	2.3	27.5 ± 1	0.3	2	32.5 ± 1.5	1700	536
24	2	0.75	1.1	0.6	2.3	27.5 ± 1	0.3	2	32.5 ± 1.5	1700	536
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	400	143
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	400	143
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	540	198
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	540	198
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.6	23 ± 1	870	308
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.6	23 ± 1	870	308
12	3	0.75	1.1	0.6	1.4	22 ± 1	0.3	1.8	27 ± 1	1180	410
12	3	0.75	1.1	0.6	1.4	22 ± 1	0.3	1.8	27 ± 1	1180	410
16	3	0.75	1.1	0.6	2.1	25.5 ± 1	0.3	1.9	30 ± 1.5	1570	513
16	3	0.75	1.1	0.6	2.1	25.5 ± 1	0.3	1.9	30 ± 1.5	1570	513
24	3	0.75	1.1	0.6	2.5	31.5 ± 1.5	0.4	2.1	37 ± 1.5	2340	822
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	16.5 ± 0.8	450	162
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	16.5 ± 0.8	450	162
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	600	235
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	600	235
8	2	1.5	1.6	0.7	1.1	20 ± 1	0.3	1.7	24.5 ± 1	1000	404
8	2	1.5	1.6	0.7	1.1	20 ± 1	0.3	1.7	24.5 ± 1	1000	404
12	2	1.5	1.6	0.7	1.3	23.5 ± 1	0.3	1.8	28.5 ± 1	1340	541
12	2	1.5	1.6	0.7	1.3	23.5 ± 1	0.3	1.8	28.5 ± 1	1340	541
16	2	1.5	1.6	0.7	1.9	27 ± 1	0.3	1.9	31.5 ± 1.5	1760	678



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Number of elements	No of cores in element	Cross section core, mm ²	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)
16	2	1.5	1.6	0.7	1.4	26 ± 1	0.3	1.9	30.5 ± 1.5	1650	678
16	2	1.5	1.6	0.7	1.9	27 ± 1	0.3	1.9	31.5 ± 1.5	1760	678
24	2	1.5	1.6	0.7	2.3	33 ± 1.5	0.4	2.2	39.5 ± 1.5	2640	1031
24	2	1.5	1.6	0.7	2.3	33 ± 1.5	0.4	2.2	39.5 ± 1.5	2640	1031
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	540	208
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	540	208
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.5	21 ± 1	760	308
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.5	21 ± 1	760	308
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1280	518
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1280	518
12	3	1.5	1.6	0.7	1.4	27 ± 1	0.3	1.9	32 ± 1.5	1760	736
16	3	1.5	1.6	0.7	2.3	31.5 ± 1.5	0.4	2.1	37 ± 1.5	2560	1035
16	3	1.5	1.6	0.7	2.3	31.5 ± 1.5	0.4	2.1	37 ± 1.5	2560	1035
24	3	1.5	1.6	0.7	2.7	38.5 ± 1.5	0.4	2.4	45 ± 2	3610	1421
2	2	2.5	2	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	530	217
4	2	2.5	2	0.7	1.1	16.5 ± 0.8	0.3	1.5	20.5 ± 1	740	325
8	2	2.5	2	0.7	1.1	22 ± 1	0.3	1.8	27 ± 1	1230	551
16	2	2.5	2	0.7	2.3	30.5 ± 1.5	0.4	2.1	36 ± 1.5	2400	1053
24	2	2.5	2	0.7	2.7	37.5 ± 1.5	0.4	2.4	44 ± 2	3470	1509
8	3	2.5	2	0.7	1.1	25 ± 1	0.3	1.9	30 ± 1.5	1620	762
16	3	2.5	2	0.7	2.6	35 ± 1.5	0.4	2.3	41 ± 2	3270	1471

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

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893806	BFOU(C) 2PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938067	1043821
893807	BFOU(C) 2PAIR 0.75mm ² S4/S8	BLUE	Yes	7021528938074	1043822
893818	BFOU(C) 4PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938180	1043823
893819	BFOU(C) 4PAIR 0.75mm ² S4/S8	BLUE	Yes	7021528938197	1043824
893830	BFOU(C) 8PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938302	1043828
893831	BFOU(C) 8PAIR 0.75mm ² S4/S8	BLUE	Yes	7021528938319	1043829
893836	BFOU(C) 12PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938364	1043830

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893837	BFOU(C) 12PAIR 0.75mm ² S4/S8	BLUE	-	7021528938371	1043831
893842	BFOU(C) 16PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938425	1043833
893843	BFOU(C) 16PAIR 0.75mm ² S4/S8	BLUE	Yes	7021528938432	1043834
893845	BFOU(C) 19PAIR 0.75mm ² S4/S8	GREY	-	7021528938456	-
893848	BFOU(C) 24PAIR 0.75mm ² S4/S8	GREY	Yes	7021528938487	1043836
893849	BFOU(C) 24PAIR 0.75mm ² S4/S8	BLUE	Yes	7021528938494	1043837
893866	BFOU(C) 2TRIP 0.75mm ² S4/S8	GREY	Yes	7021528938661	1043921
893867	BFOU(C) 2TRIP 0.75mm ² S4/S8	BLUE	Yes	7021528938678	1043922
893878	BFOU(C) 4TRIP 0.75mm ² S4/S8	GREY	Yes	7021528938784	1043924
893879	BFOU(C) 4TRIP 0.75mm ² S4/S8	BLUE	-	7021528938791	1043925
893890	BFOU(C) 8TRIP 0.75mm ² S4/S8	GREY	-	7021528938906	1043928
893891	BFOU(C) 8TRIP 0.75mm ² S4/S8	BLUE	-	7021528938913	1043929
893896	BFOU(C) 12TRIP 0.75mm ² S4/S8	GREY	-	7021528938968	1043930
893897	BFOU(C) 12TRIP 0.75mm ² S4/S8	BLUE	-	7021528938975	1043931
893902	BFOU(C) 16TRIP 0.75mm ² S4/S8	GREY	Yes	7021528939026	1043933
893903	BFOU(C) 16TRIP 0.75mm ² S4/S8	BLUE	-	7021528939033	1043934
893908	BFOU(C) 24TRIP 0.75mm ² S4/S8	GREY	-	7021528939088	1043936
894006	BFOU(C) 2PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940060	1043862
894007	BFOU(C) 2PAIR 1.5mm ² S4/S8	BLUE	-	7021528940077	1043861
894018	BFOU(C) 4PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940183	1043863
894019	BFOU(C) 4PAIR 1.5mm ² S4/S8	BLUE	-	7021528940190	1043864
894030	BFOU(C) 8PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940305	1043868
894031	BFOU(C) 8PAIR 1.5mm ² S4/S8	BLUE	-	7021528940312	1043869
894036	BFOU(C) 12PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940367	1043870
894037	BFOU(C) 12PAIR 1.5mm ² S4/S8	BLUE	-	7021528940374	1043871
894042	BFOU(C) 16PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940428	1043873
89404283	BFOU(C) 16PAIR 1.5mm ² S4/S8	GREY	Yes	702152894042838	1043873SDC
894043	BFOU(C) 16PAIR 1.5mm ² S4/S8	BLUE	-	7021528940435	1043874
894048	BFOU(C) 24PAIR 1.5mm ² S4/S8	GREY	Yes	7021528940480	1043876
894049	BFOU(C) 24PAIR 1.5mm ² S4/S8	BLUE	-	7021528940497	1043877
894066	BFOU(C) 2TRIP 1.5mm ² S4/S8	GREY	Yes	7021528940664	1043971
894067	BFOU(C) 2TRIP 1.5mm ² S4/S8	BLUE	Yes	7021528940671	1043972
894078	BFOU(C) 4TRIP 1.5mm ² S4/S8	GREY	-	7021528940787	1043973
894079	BFOU(C) 4TRIP 1.5mm ² S4/S8	BLUE	-	7021528940794	1043974
894090	BFOU(C) 8TRIP 1.5mm ² S4/S8	GREY	Yes	7021528940909	1043977
894091	BFOU(C) 8TRIP 1.5mm ² S4/S8	BLUE	-	7021528940916	1043978
894096	BFOU(C) 12TRIP 1.5mm ² S4/S8	GREY	-	7021528940961	1043979
894102	BFOU(C) 16TRIP 1.5mm ² S4/S8	GREY	-	7021528941029	1043981
894103	BFOU(C) 16TRIP 1.5mm ² S4/S8	BLUE	-	7021528941036	1043982
894108	BFOU(C) 24TRIP 1.5mm ² S4/S8	GREY	-	7021528941081	1043987
894206	BFOU(C) 2PAIR 2.5mm ² S4/S8	GREY	-	7021528942064	-
894218	BFOU(C) 4PAIR 2.5mm ² S4/S8	GREY	-	7021528942187	-
894230	BFOU(C) 8PAIR 2.5mm ² S4/S8	GREY	-	7021528942309	-
894242	BFOU(C) 16PAIR 2.5mm ² S4/S8	GREY	-	7021528942422	-
894248	BFOU(C) 24PAIR 2.5mm ² S4/S8	GREY	-	7021528942484	-
894290	BFOU(C) 8TRIP 2.5mm ² S4/S8	GREY	-	7021528942903	-
894302	BFOU(C) 16TRIP 2.5mm ² S4/S8	GREY	-	7021528943023	-

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 ²	-20°C