

FlexFlame BFOU(c) 150/250(300)V S4/S8 Instr. cable

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

BFOU(c) 150/250(300)V

MGT/EPR/EPR/TCWB/EVA



NEK TS 606 CodeS4/S8

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, emergency and critical systems where requirement for fire resistance exists. 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 60331-1, -2, -21	- Fire Resistant
IEC 60754-1,2	- 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
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	Mechanical cross-section of the braid, mm ²	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	8.5	1.3	14.5 ± 0.8	340	113
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	340	113
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	10.2	1.4	16 ± 0.8	450	155
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	10.2	1.4	16 ± 0.8	450	155
8	2	0.75	1.1	0.6	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	680	240
8	2	0.75	1.1	0.6	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	680	240
12	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	17.8	1.6	24 ± 1	930	332
12	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	17.8	1.6	24 ± 1	930	332
16	2	0.75	1.1	0.6	1.9	22 ± 1	0.3	17.8	1.7	26.5 ± 1	1180	383
16	2	0.75	1.1	0.6	1.9	22 ± 1	0.3	17.8	1.7	26.5 ± 1	1180	383
19	2	0.75	1.1	0.6	1.9	23 ± 1	0.3	20.4	1.8	28 ± 1	1330	447
24	2	0.75	1.1	0.6	2.3	27.5 ± 1	0.3	22.9	2	32.5 ± 1.5	1700	536
24	2	0.75	1.1	0.6	2.3	27.5 ± 1	0.3	22.9	2	32.5 ± 1.5	1700	536
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	400	143
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	400	143
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	540	198
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	540	198
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	870	308
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	870	308
12	3	0.75	1.1	0.6	1.4	22 ± 1	0.3	17.8	1.8	27 ± 1	1180	410
12	3	0.75	1.1	0.6	1.4	22 ± 1	0.3	17.8	1.8	27 ± 1	1180	410
16	3	0.75	1.1	0.6	2.1	25.5 ± 1	0.3	20.4	1.9	30.5 ± 1.5	1580	513
16	3	0.75	1.1	0.6	2.1	25.5 ± 1	0.3	20.4	1.9	30.5 ± 1.5	1580	513
24	3	0.75	1.1	0.6	2.5	31.5 ± 1.5	0.4	36.2	2.1	37 ± 1.5	2350	822
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	450	162
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	10.2	1.4	16.5 ± 0.8	450	162
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	600	234
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	600	234
8	2	1.5	1.6	0.7	1.1	20 ± 1	0.3	17.8	1.7	24.5 ± 1	1000	404
8	2	1.5	1.6	0.7	1.1	20 ± 1	0.3	17.8	1.7	24.5 ± 1	1000	404
12	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	20.4	1.8	28.5 ± 1	1360	540
12	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	20.4	1.8	28.5 ± 1	1360	540
16	2	1.5	1.6	0.7	1.9	27 ± 1	0.3	22.9	1.9	31.5 ± 1.5	1760	677
16	2	1.5	1.6	0.7	1.9	27 ± 1	0.3	22.9	1.9	31.5 ± 1.5	1760	677

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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	Mechanical cross-section of the braid, mm ²	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
24	2	1.5	1.6	0.7	2.3	33.5 ± 1.5	0.4	36.2	2.2	39.5 ± 1.5	2640	1030
24	2	1.5	1.6	0.7	2.3	33.5 ± 1.5	0.4	36.2	2.2	39.5 ± 1.5	2640	1030
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	11.9	1.4	18.5 ± 0.8	540	207
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	11.9	1.4	18.5 ± 0.8	540	207
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	13.6	1.5	21 ± 1	760	307
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	13.6	1.5	21 ± 1	760	307
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	17.8	1.8	27 ± 1	1280	517
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	17.8	1.8	27 ± 1	1280	517
12	3	1.5	1.6	0.7	1.4	27 ± 1	0.3	22.9	1.9	32 ± 1.5	1770	736
16	3	1.5	1.6	0.7	2.3	31.5 ± 1.5	0.4	36.2	2.1	37 ± 1.5	2560	1034
16	3	1.5	1.6	0.7	2.3	31.5 ± 1.5	0.4	36.2	2.1	37 ± 1.5	2560	1034
24	3	1.5	1.6	0.7	2.7	38.5 ± 1.5	0.4	40.7	2.4	45 ± 2	3610	1421
2	2	2.5	2	0.7	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	530	217
4	2	2.5	2	0.7	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	740	325
8	2	2.5	2	0.7	1.1	22 ± 1	0.3	17.8	1.8	27 ± 1	1230	551
16	2	2.5	2	0.7	2.3	30.5 ± 1.5	0.4	31.7	2.1	36 ± 1.5	2410	1053
24	2	2.5	2	0.7	2.7	37.5 ± 1.5	0.4	40.7	2.4	44 ± 2	3480	1509
4	3	2.5	2	0.7	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	940	435
8	3	2.5	2	0.7	1.1	25 ± 1	0.3	20.4	1.9	30 ± 1.5	1620	762
16	3	2.5	2	0.7	2.6	35 ± 1.5	0.4	36.2	2.3	41.5 ± 2	3280	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
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

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
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
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	-
894278	BFOU(C) 4TRIP 2.5mm ² S4/S8	GREY	-	7021528942781	-
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