



FlexFlame BFOU(i) 250V S3/S7 Instr. cable

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

BFOU(i) 250V

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeS3/S7



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. 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 numbered tape or by numbers printed directly on the insulated conductors.
Lay up / Shielding		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
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(i) 250V S3/S7 16 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)
1	2	0.75	1.1	0.6	1.1	7.5 ± 0.5	0.2	1.1	10.5 ± 0.8	200	55
1	2	0.75	1.1	0.6	1.1	7.5 ± 0.5	0.2	1.1	10.5 ± 0.8	200	55
2	2	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	135
2	2	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	135
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	490	186
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	490	186
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	780	288
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	780	288
12	2	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1050	381
12	2	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1050	381
16	2	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	27.5 ± 1	1310	475
16	2	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	27.5 ± 1	1310	475
19	2	0.75	1.1	0.6	1.4	24 ± 1	0.3	1.9	28.5 ± 1	1460	526
19	2	0.75	1.1	0.6	1.4	24 ± 1	0.3	1.9	28.5 ± 1	1460	526
24	2	0.75	1.1	0.6	1.8	29 ± 1	0.4	2.1	34.5 ± 1.5	2000	723
24	2	0.75	1.1	0.6	1.8	29 ± 1	0.4	2.1	34.5 ± 1.5	2000	723
1	3	0.75	1.1	0.6	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	220	68
1	3	0.75	1.1	0.6	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	220	68
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.4	15.5 ± 0.8	410	147
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.4	15.5 ± 0.8	410	147
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	17.5 ± 0.8	570	212
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	17.5 ± 0.8	570	212
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.7	23 ± 1	970	364
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.7	23 ± 1	970	364
12	3	0.75	1.1	0.6	1.3	22.5 ± 1	0.3	1.8	27 ± 1	1300	484
12	3	0.75	1.1	0.6	1.3	22.5 ± 1	0.3	1.8	27 ± 1	1300	484
16	3	0.75	1.1	0.6	1.4	25.5 ± 1	0.3	1.9	30 ± 1.5	1630	604
19	3	0.75	1.1	0.6	1.6	26.5 ± 1	0.3	2	31.5 ± 1.5	1850	675
24	3	0.75	1.1	0.6	1.8	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2460	924
24	3	0.75	1.1	0.6	1.8	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2460	924
1	2	1.5	1.6	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	255	79
1	2	1.5	1.6	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	255	79
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	470	186
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	470	186



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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)
4	2	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	660	271
4	2	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	660	271
8	2	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1080	451
8	2	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1080	451
12	2	1.5	1.6	0.7	1.3	25 ± 1	0.3	1.9	30 ± 1.5	1490	613
12	2	1.5	1.6	0.7	1.3	25 ± 1	0.3	1.9	30 ± 1.5	1490	613
16	2	1.5	1.6	0.7	1.6	29 ± 1	0.3	2	34 ± 1.5	1920	776
16	2	1.5	1.6	0.7	1.6	29 ± 1	0.3	2	34 ± 1.5	1920	776
19	2	1.5	1.6	0.7	1.6	30 ± 1.5	0.4	2.1	35.5 ± 1.5	2290	1009
24	2	1.5	1.6	0.7	1.8	35.5 ± 1.5	0.4	2.3	42 ± 2	2900	1226
24	2	1.5	1.6	0.7	1.8	35.5 ± 1.5	0.4	2.3	42 ± 2	2970	1226
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	0.2	1.2	12.5 ± 0.8	285	93
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	0.2	1.2	12.5 ± 0.8	285	93
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	1.5	18.5 ± 0.8	550	214
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	1.5	18.5 ± 0.8	560	214
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.6	21 ± 1	810	344
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.6	21 ± 1	810	344
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1360	589
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1360	589
12	3	1.5	1.6	0.7	1.5	28.5 ± 1	0.3	2	33.5 ± 1.5	1920	810
12	3	1.5	1.6	0.7	1.5	28.5 ± 1	0.3	2	33.5 ± 1.5	1920	810
16	3	1.5	1.6	0.7	1.6	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2600	1180
16	3	1.5	1.6	0.7	1.6	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2600	1180
24	3	1.5	1.6	0.7	2	39.5 ± 1.5	0.4	2.5	46.5 ± 2	3720	1611
24	3	1.5	1.6	0.7	2	39.5 ± 1.5	0.4	2.5	46.5 ± 2	3720	1611
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	300	99
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	300	99
2	2	2.5	2	0.7	1.1	14.5 ± 0.8	0.3	1.5	18.5 ± 0.8	550	225
4	2	2.5	2	0.7	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	820	367
8	2	2.5	2	0.7	1.1	23.5 ± 1	0.3	1.8	28 ± 1	1370	633
16	2	2.5	2	0.7	1.6	32 ± 1.5	0.4	2.2	38 ± 1.5	2590	1221
1	3	2.5	2	0.7	1.1	10.5 ± 0.8	0.2	1.2	13.5 ± 0.8	350	129
8	3	2.5	2	0.7	1.3	25.5 ± 1	0.3	2	30.5 ± 1.5	1790	844
12	3	2.5	2	0.7	1.5	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2610	1284



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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 ²	110	0,67	26,3	12,7
Shielded triple 0,75 mm ²	110	0,67	26,3	12,7
Shielded pair 1,5 mm ²	125	0,63	12,9	24,4
Shielded triple 1,5 mm ²	125	0,63	12,9	24,4
Shielded pair 2,5 mm ²	145	0,59	8,02	36,8
Shielded triple 2,5 mm ²	145	0,59	8,02	36,8

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893200	BFOU(I) 1PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932003	1043820
893201	BFOU(I) 1PAIR 0.75mm ² S3/S7	BLUE	Yes	7021528932010	1043819
893206	BFOU(I) 2PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932065	1044020
893207	BFOU(I) 2PAIR 0.75mm ² S3/S7	BLUE	-	7021528932072	1044019
893218	BFOU(I) 4PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932188	1044021
893219	BFOU(I) 4PAIR 0.75mm ² S3/S7	BLUE	-	7021528932195	1044022
893230	BFOU(I) 8PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932300	1044028
893231	BFOU(I) 8PAIR 0.75mm ² S3/S7	BLUE	-	7021528932317	1044029
893236	BFOU(I) 12PAIR 0.75mm ² S3/S7	GREY	-	7021528932362	1044030
893237	BFOU(I) 12PAIR 0.75mm ² S3/S7	BLUE	-	7021528932379	1044031
893242	BFOU(I) 16PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932423	1044033
893243	BFOU(I) 16PAIR 0.75mm ² S3/S7	BLUE	-	7021528932430	1044034
893245	BFOU(I) 19PAIR 0.75mm ² S3/S7	GREY	Yes	7021528932454	-
893246	BFOU(I) 19PAIR 0.75mm ² S3/S7	BLUE	Yes	7021528932461	-
893248	BFOU(I) 24PAIR 0.75mm ² S3/S7	GREY	-	7021528932485	1044036
893249	BFOU(I) 24PAIR 0.75mm ² S3/S7	BLUE	-	7021528932492	1044037
893260	BFOU(I) 1TRIP 0.75mm ² S3/S7	GREY	Yes	7021528932607	1043920
893261	BFOU(I) 1TRIP 0.75mm ² S3/S7	BLUE	Yes	7021528932614	1043919
893266	BFOU(I) 2TRIP 0.75mm ² S3/S7	GREY	-	7021528932669	1044121
893267	BFOU(I) 2TRIP 0.75mm ² S3/S7	BLUE	-	7021528932676	1044122
893278	BFOU(I) 4TRIP 0.75mm ² S3/S7	GREY	-	7021528932782	1044123
893279	BFOU(I) 4TRIP 0.75mm ² S3/S7	BLUE	-	7021528932799	1044124
893290	BFOU(I) 8TRIP 0.75mm ² S3/S7	GREY	Yes	7021528932904	1044128
893291	BFOU(I) 8TRIP 0.75mm ² S3/S7	BLUE	-	7021528932911	1044129
893296	BFOU(I) 12TRIP 0.75mm ² S3/S7	GREY	-	7021528932966	1044130
893297	BFOU(I) 12TRIP 0.75mm ² S3/S7	BLUE	-	7021528932973	1044131
893302	BFOU(I) 16TRIP 0.75mm ² S3/S7	GREY	-	7021528933024	1044132
893305	BFOU(I) 19TRIP 0.75mm ² S3/S7	GREY	-	7021528933055	-
893308	BFOU(I) 24TRIP 0.75mm ² S3/S7	GREY	-	7021528933086	1044138
893309	BFOU(I) 24TRIP 0.75mm ² S3/S7	BLUE	-	7021528933093	1044139
893400	BFOU(I) 1PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934007	1043860
893401	BFOU(I) 1PAIR 1.5mm ² S3/S7	BLUE	Yes	7021528934014	1043859
893406	BFOU(I) 2PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934069	1044060
893407	BFOU(I) 2PAIR 1.5mm ² S3/S7	BLUE	-	7021528934076	1044061
893418	BFOU(I) 4PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934182	1044063
893419	BFOU(I) 4PAIR 1.5mm ² S3/S7	BLUE	-	7021528934199	1044064
893430	BFOU(I) 8PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934304	1044068
893431	BFOU(I) 8PAIR 1.5mm ² S3/S7	BLUE	-	7021528934311	1044069
893436	BFOU(I) 12PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934366	1044070
893437	BFOU(I) 12PAIR 1.5mm ² S3/S7	BLUE	-	7021528934373	1044071
893442	BFOU(I) 16PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934427	1044073
893443	BFOU(I) 16PAIR 1.5mm ² S3/S7	BLUE	-	7021528934434	1044074
893445	BFOU(I) 19PAIR 1.5mm ² S3/S7	GREY	Yes	7021528934458	-
893448	BFOU(I) 24PAIR 1.5mm ² S3/S7	GREY	-	7021528934489	1044076
893449	BFOU(I) 24PAIR 1.5mm ² S3/S7	BLUE	-	7021528934496	-
893460	BFOU(I) 1TRIP 1.5mm ² S3/S7	GREY	Yes	7021528934601	1044170

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893461	BFOU(I) 1TRIP 1.5mm ² S3/S7	BLUE	Yes	7021528934618	1044169
893466	BFOU(I) 2TRIP 1.5mm ² S3/S7	GREY	-	7021528934663	1044171
893467	BFOU(I) 2TRIP 1.5mm ² S3/S7	BLUE	-	7021528934670	-
893478	BFOU(I) 4TRIP 1.5mm ² S3/S7	GREY	-	7021528934786	1044173
893479	BFOU(I) 4TRIP 1.5mm ² S3/S7	BLUE	-	7021528934793	1044174
893490	BFOU(I) 8TRIP 1.5mm ² S3/S7	GREY	-	7021528934908	1044177
893491	BFOU(I) 8TRIP 1.5mm ² S3/S7	BLUE	-	7021528934915	1044178
893496	BFOU(I) 12TRIP 1.5mm ² S3/S7	GREY	-	7021528934960	1044179
893497	BFOU(I) 12TRIP 1.5mm ² S3/S7	BLUE	-	7021528934977	1044180
893502	BFOU(I) 16TRIP 1.5mm ² S3/S7	GREY	-	7021528935028	1044181
893503	BFOU(I) 16TRIP 1.5mm ² S3/S7	BLUE	-	7021528935035	1044182
893508	BFOU(I) 24TRIP 1.5mm ² S3/S7	GREY	-	7021528935080	1044193
893509	BFOU(I) 24TRIP 1.5mm ² S3/S7	BLUE	-	7021528935097	1044194
893600	BFOU(I) 1PAIR 2.5mm ² S3/S7	GREY	Yes	7021528936001	1044140
893601	BFOU(I) 1PAIR 2.5mm ² S3/S7	BLUE	-	7021528936018	-
893606	BFOU(I) 2PAIR 2.5mm ² S3/S7	GREY	-	7021528936063	-
893618	BFOU(I) 4PAIR 2.5mm ² S3/S7	GREY	-	7021528936186	-
893630	BFOU(I) 8PAIR 2.5mm ² S3/S7	GREY	-	7021528936308	-
893642	BFOU(I) 16PAIR 2.5mm ² S3/S7	GREY	-	7021528936421	-
893660	BFOU(I) 1TRIP 2.5mm ² S3/S7	GREY	-	7021528936605	-
893690	BFOU(I) 8TRIP 2.5mm ² S3/S7	GREY	-	7021528936902	-
893696	BFOU(I) 12TRIP 2.5mm ² S3/S7	GREY	-	7021528936964	-

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