



## BU(i) 250V S13 Instrumentation cable, Unarmoured

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

### BU(i) 250V

MGT/EPR/EVA

NEK 606 CodeS13



Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX-(Zone 2) and safe areas, emergency and critical systems where requirement for fire resistance exists. 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 60331-21	- Fire Resistant
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	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.
Inner covering		No inner covering. (Additional tapes may be applied)
Armour/screen		No armour.
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		"meter" "år" DRAKA NORSK KABEL BU(i) 250V S13 8 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22
Outer sheath colour		Grey

#### Core identification instrumentation cables

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

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### 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 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	7.5 ± 0.5	95	18.5
2	2	0.75	1.1	0.6	1.2	11 ± 0.8	170	37
4	2	0.75	1.1	0.6	1.2	13 ± 0.8	265	74
8	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	510	147
12	2	0.75	1.1	0.6	1.6	21 ± 1	720	220
16	2	0.75	1.1	0.6	1.7	23.5 ± 1	920	293
24	2	0.75	1.1	0.6	1.9	29 ± 1	1340	440
1	3	0.75	1.1	0.6	1	7.5 ± 0.5	110	26
2	3	0.75	1.1	0.6	1.2	12 ± 0.8	205	51
4	3	0.75	1.1	0.6	1.3	14 ± 0.8	350	102
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	650	203
12	3	0.75	1.1	0.6	1.7	23.5 ± 1	930	305
16	3	0.75	1.1	0.6	1.8	26 ± 1	1210	407
24	3	0.75	1.1	0.6	1	30 ± 1.5	1510	610
1	2	1.5	1.6	0.7	1	8.5 ± 0.5	135	35
2	2	1.5	1.6	0.7	1.3	13.5 ± 0.8	250	69
4	2	1.5	1.6	0.7	1.4	16 ± 0.8	420	138
8	2	1.5	1.6	0.7	1.6	22 ± 1	790	275
12	2	1.5	1.6	0.7	1.7	26 ± 1	1100	412
16	2	1.5	1.6	0.7	1.9	29.5 ± 1	1460	549
24	2	1.5	1.6	0.7	2.2	36.5 ± 1.5	2160	824
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	165	49
2	3	1.5	1.6	0.7	1.3	14.5 ± 0.8	320	97
4	3	1.5	1.6	0.7	1.4	17.5 ± 0.8	540	194
8	3	1.5	1.6	0.7	1.7	23.5 ± 1	1030	387
12	3	1.5	1.6	0.7	1.9	29 ± 1	1480	582
16	3	1.5	1.6	0.7	2	32.5 ± 1.5	1920	775
24	3	1.5	1.6	0.7	2.4	40.5 ± 2	2880	1163

### 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



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### Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
896200	BU(I) 250V 1PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962000	-
896206	BU(I) 250V 2PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962062	-
896218	BU(I) 250V 4PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962185	-
896230	BU(I) 250V 8PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962307	-
896236	BU(I) 250V 12PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962369	-
896242	BU(I) 250V 16PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962420	-
896248	BU(I) 250V 24PAIR 0.75mm <sup>2</sup> S13	GREY	7021528962482	-
896260	BU(I) 250V 1TRIP 0.75mm <sup>2</sup> S13	GREY	7021528962604	-
896266	BU(I) 250V 2TRIP 0.75mm <sup>2</sup> S13	GREY	7021528962666	-
896278	BU(I) 250V 4TRIP 0.75mm <sup>2</sup> S13	GREY	7021528962789	-
896290	BU(I) 250V 8TRIP 0.75mm <sup>2</sup> S13	GREY	7021528962901	-
896296	BU(I) 250V 12TRIP 0.75mm <sup>2</sup> S13	GREY	7021528962963	-
896302	BU(I) 250V 16TRIP 0.75mm <sup>2</sup> S13	GREY	7021528963021	-
896308	BU(I) 250V 24TRIP 0.75mm <sup>2</sup> S13	GREY	7021528963083	-
896400	BU(I) 250V 1PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964004	-
896406	BU(I) 250V 2PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964066	-
896418	BU(I) 250V 4PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964189	-
896430	BU(I) 250V 8PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964301	-
896436	BU(I) 250V 12PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964363	-
896442	BU(I) 250V 16PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964424	-
896448	BU(I) 250V 24PAIR 1.5mm <sup>2</sup> S13	GREY	7021528964486	-
896460	BU(I) 250V 1TRIP 1.5mm <sup>2</sup> S13	GREY	7021528964608	-
896466	BU(I) 250V 2TRIP 1.5mm <sup>2</sup> S13	GREY	7021528964660	-
896478	BU(I) 250V 4TRIP 1.5mm <sup>2</sup> S13	GREY	7021528964783	-
896490	BU(I) 250V 8TRIP 1.5mm <sup>2</sup> S13	GREY	7021528964905	-
896496	BU(I) 250V 12TRIP 1.5mm <sup>2</sup> S13	GREY	7021528964967	-
896502	BU(I) 250V 16TRIP 1.5mm <sup>2</sup> S13	GREY	7021528965025	-
896508	BU(I) 250V 24TRIP 1.5mm <sup>2</sup> S13	GREY	7021528965087	-

### 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