



**Halogen-free, fire resistant, unarmoured, mud resistant instrumentation cable BU(c) 250V, S14**

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

**BU(c) 250V**

MGT/EPR/EVA

NEK 606 CodeS14



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	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + 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 numbered tape or by numbers printed directly on the insulated conductors.
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		"meter" "år" DRAKA NORSK KABEL BU(c) 250V S14 8 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey or Blue



### 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 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	155	33
4	2	0.75	1.1	0.6	1.2	12.5 ± 0.8	235	61
8	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	450	116
12	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	590	172
16	2	0.75	1.1	0.6	1.6	21.5 ± 1	740	228
19	2	0.75	1.1	0.6	1.7	23 ± 1	850	269
24	2	0.75	1.1	0.6	1.8	26.5 ± 1	1060	339
2	3	0.75	1.1	0.6	1.2	12 ± 0.8	205	47
4	3	0.75	1.1	0.6	1.3	14.5 ± 0.8	320	89
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	590	173
12	3	0.75	1.1	0.6	1.6	22.5 ± 1	800	257
16	3	0.75	1.1	0.6	1.7	24.5 ± 1	1030	341
24	3	0.75	1.1	0.6	2	30.5 ± 1.5	1500	509
2	2	1.5	1.6	0.7	1.2	13 ± 0.8	230	63
4	2	1.5	1.6	0.7	1.3	15.5 ± 0.8	360	118
8	2	1.5	1.6	0.7	1.5	21 ± 1	680	229
12	2	1.5	1.6	0.7	1.7	24.5 ± 1	940	340
16	2	1.5	1.6	0.7	1.8	26.5 ± 1	1200	451
24	2	1.5	1.6	0.7	2.1	33 ± 1.5	1770	673
2	3	1.5	1.6	0.7	1.3	15 ± 0.8	310	91
4	3	1.5	1.6	0.7	1.4	17.5 ± 0.8	500	174
8	3	1.5	1.6	0.7	1.6	23.5 ± 1	930	341
12	3	1.5	1.6	0.7	1.8	28 ± 1	1310	509
16	3	1.5	1.6	0.7	1.9	30.5 ± 1.5	1680	677
24	3	1.5	1.6	0.7	2.2	37.5 ± 1.5	2480	1011

### 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	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
896806	BU(C) 250V 2PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968064	-
896818	BU(C) 250V 4PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968187	-
896830	BU(C) 250V 8PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968309	-
896836	BU(C) 250V 12PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968361	-
896842	BU(C) 250V 16PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968422	-
896845	BU(C) 250V 19PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968453	-
896848	BU(C) 250V 24PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968484	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
896866	BU(C) 250V 2TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968668	-
896878	BU(C) 250V 4TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968781	-
896890	BU(C) 250V 8TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968903	-
896896	BU(C) 250V 12TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968965	-
896902	BU(C) 250V 16TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528969023	-
896908	BU(C) 250V 24TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528969085	-
897006	BU(C) 250V 2PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970067	-
897018	BU(C) 250V 4PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970180	-
897030	BU(C) 250V 8PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970302	-
897036	BU(C) 250V 12PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970364	-
897042	BU(C) 250V 16PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970425	-
897048	BU(C) 250V 24PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970487	-
897066	BU(C) 250V 2TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970661	-
897078	BU(C) 250V 4TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970784	-
897090	BU(C) 250V 8TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970906	-
897096	BU(C) 250V 12TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970968	-
897102	BU(C) 250V 16TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528971026	-
897108	BU(C) 250V 24TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528971088	-

### 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