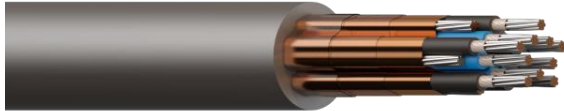


## BU(i) 250V S13/S107 Instr. cable, Unarmoured

Fire resistant, flame retardant halogen-free instrumentation cable.

# BU(i) 150/250(300)V

MGT/EPR/EVA



BU(i) 250V      NEK TS 606 Code S107  
 BU(i) M 250V    NEK TS 606 Code S13/S107

Operating temperature      : 90°C  
 Operating Voltage            : 150/250(300)V

### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-360	- Insulation
IEC 60092-360	- Sheath
IEC 60332-1-2	- 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

### 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.

BU(i) M 250V meets the Oil & Mud resistance requirements in NEK TS 606:2016.

### 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 60092-360 (EPR)
<b>Pair / Triple / Quad twisting</b>		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.
<b>Lay up / Shielding</b>		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
<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 thermoset compound, SHF2 (IEC 60092-360)
<b>Marking text (example)</b>		"meter" "year/week" DRAKA 01 Part no. <SAP code> BU(i) M 250V S13/S107 8 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no. <Prod.ordre no.>
<b>Manufacturing unit</b>		DRAKA 01 = Prysmian Group Norge AS
<b>Outer sheath colour</b>		Grey or Blue

\*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm

\*\*) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

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## BU(i) 250V S13/S107 Instr. cable, Unarmoured

### 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)
1	2	0.75	1.1	0.6	1.0	7 ± 0.5	95	17
2	2	0.75	1.1	0.6	1.2	11 ± 0.8	165	33
4	2	0.75	1.1	0.6	1.2	12.5 ± 0.8	252	65
8	2	0.75	1.1	0.6	1.4	17 ± 0.8	470	130
16	2	0.75	1.1	0.6	1.7	23 ± 1	865	259
24	2	0.75	1.1	0.6	1.9	28 ± 1	1255	389
1	3	0.75	1.1	0.6	1	7.5 ± 0.5	110	23
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	630	179
12	3	0.75	1.1	0.6	1.7	23 ± 1	880	270
1	2	1.5	1.55	0.7	1.1	9.5 ± 0.5	142	32
2	2	1.5	1.55	0.7	1.3	14 ± 0.8	255	63
4	2	1.5	1.55	0.7	1.4	15.5 ± 0.8	385	125
1	2	2.5	1.9	0.7	1.1	9.5 ± 0.5	160	149
4	2	2.5	1.9	0.7	1.4	17 ± 0.8	485	195
16	2	2.5	1.9	0.7	2.0	31.5 ± 1.5	1725	782

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

### Ordering information

Part number	Description	Sheath Colour	GTIN 1m	EL No.
20109514	BU(I) M 250V 1P 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962000	1063500
20137137	BU(I) M 250V 1P 0.75mm <sup>2</sup> S13/S107 BU	BLUE	7021528962017	1063501
20157493	BU(I) M 250V 2P 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962062	1063506
20176718	BU(I) M 250V 4P 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962185	1063518
20161612	BU(I) M 250V 4P 0.75mm <sup>2</sup> S13/S107 BU	BLUE	7021528962192	-
20176720	BU(I) M 250V 8P 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962307	1063530
20161613	BU(I) M 250V 8P 0.75mm <sup>2</sup> S13/S107 BU	BLUE	7021528962314	-
20176719	BU(I) M 250V 16P 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962420	1063542
20161615	BU(I) M 250V 16P 0.75mm <sup>2</sup> S13/S107 BU	BLUE	7021528962437	-
20161610	BU(I) M 250V 24P 0.75mm <sup>2</sup> S13/S107 BU	BLUE	7021528962499	-
20119107	BU(I) M 250V 1T 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962604	1063560
20161614	BU(I) M 250V 8T 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962901	1063590
20161609	BU(I) M 250V 12T 0.75mm <sup>2</sup> S13/S107 GY	GREY	7021528962963	1063596
20109515	BU(I) M 250V 1P 1.5mm <sup>2</sup> S13/S107 GY	GREY	7021528964004	1063700
20109516	BU(I) M 250V 1P 1.5mm <sup>2</sup> S13/S107 BU	BLUE	7021528964011	1063701

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Part number	Description	Sheath Colour	GTIN 1m	EL No.
20109517	BU(I) M 250V 2P 1.5mm <sup>2</sup> S13/S107 GY	GREY	7021528964066	1063706
	BU(I) M 250V 2P 1.5mm <sup>2</sup> S13/S107 BU	BLUE	7021528964073	1063707
20109518	BU(I) M 250V 4P 1.5mm <sup>2</sup> S13/S107 GY	GREY	7021528964189	1063718
20156709	BU(I) M 250V 1P 2.5mm <sup>2</sup> S13/S107 GY	GREY	7021528966008	1063900
20180299	BU(I) M 250V 4P 2.5mm <sup>2</sup> S13/S107 GY	GREY	7021528966183	
20161611	BU(I) M 250V 16P 2.5mm <sup>2</sup> S13/S107 GY	GREY	7021528966428	

### Installation recommendations

Overall diameter of cable (D)	Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
≤25 mm	8 x D	4 x D	50 N x total cross section (mm <sup>2</sup> ) of conductors	-20°C
>25 mm		6 x D		

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