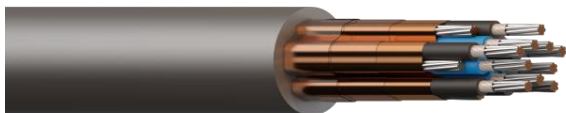


BU(i) 250V S13/S107 Instr. cable, Unarmoured



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

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

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

Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	B	Mica-tape + EP-rubber, IEC 60092-360 (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		No inner covering. (Additional tapes may be applied)
Armour/screen		No armour.
Outer sheath	U	Flame retardant, halogen-free thermoset compound, SHF2 (IEC 60092-360)
Marking text (example)		"meter" "year/week" DRAKA 01 Part no. <SAP code> BU(i) M 250V S13/S107 8 PAIR 0,75 mm ² FLEX - FLAME IEC 60092-376 IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no. <Prod.ordre no.>
Manufacturing unit		DRAKA 01 = Prysmian Group Norge AS
Outer sheath colour		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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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 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	7.5 ± 0.5	92	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	13 ± 0.8	255	65
8	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	480	130
16	2	0.75	1.1	0.6	1.7	23.5 ± 1	885	260
24	2	0.75	1.1	0.6	1.9	29 ± 1	1300	390
1	3	0.75	1.1	0.6	1	7.5 ± 0.5	105	23
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	640	179
12	3	0.75	1.1	0.6	1.7	23.5 ± 1	895	271
1	2	1.5	1.55	0.7	1.1	9 ± 0.5	135	32
2	2	1.5	1.55	0.7	1.3	13.5 ± 0.8	240	63
4	2	1.5	1.55	0.7	1.4	16 ± 0.8	400	126
1	2	2.5	1.9	0.7	1.1	9.5 ± 0.5	160	49
4	2	2.5	1.9	0.7	1.4	17 ± 0.8	490	195
16	2	2.5	1.9	0.7	2.0	32 ± 1.5	1760	784

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	GTIN 1m	EL No.
20109514	BU(I) M 250V 1P 0.75mm ² S13/S107 GY	GREY	7021528962000	1063500
20137137	BU(I) M 250V 1P 0.75mm ² S13/S107 BU	BLUE	7021528962017	1063501
20157493	BU(I) M 250V 2P 0.75mm ² S13/S107 GY	GREY	7021528962062	1063506
20176718	BU(I) M 250V 4P 0.75mm ² S13/S107 GY	GREY	7021528962185	1063518
20161612	BU(I) M 250V 4P 0.75mm ² S13/S107 BU	BLUE	7021528962192	-
20176720	BU(I) M 250V 8P 0.75mm ² S13/S107 GY	GREY	7021528962307	1063530
20161613	BU(I) M 250V 8P 0.75mm ² S13/S107 BU	BLUE	7021528962314	-
20176719	BU(I) M 250V 16P 0.75mm ² S13/S107 GY	GREY	7021528962420	1063542
20161615	BU(I) M 250V 16P 0.75mm ² S13/S107 BU	BLUE	7021528962437	-
20161610	BU(I) M 250V 24P 0.75mm ² S13/S107 BU	BLUE	7021528962499	-
20119107	BU(I) M 250V 1T 0.75mm ² S13/S107 GY	GREY	7021528962604	1063560
20161614	BU(I) M 250V 8T 0.75mm ² S13/S107 GY	GREY	7021528962901	1063590
20161609	BU(I) M 250V 12T 0.75mm ² S13/S107 GY	GREY	7021528962963	1063596
20109515	BU(I) M 250V 1P 1.5mm ² S13/S107 GY	GREY	7021528964004	1063700
20109516	BU(I) M 250V 1P 1.5mm ² S13/S107 BU	BLUE	7021528964011	1063701
20109517	BU(I) M 250V 2P 1.5mm ² S13/S107 GY	GREY	7021528964066	1063706

Subject to change without prior notice

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

Part number	Description	Sheath Colour	GTIN 1m	EL No.
	BU(I) M 250V 2P 1.5mm ² S13/S107 BU	BLUE	7021528964073	1063707
20109518	BU(I) M 250V 4P 1.5mm ² S13/S107 GY	GREY	7021528964189	1063718
20156709	BU(I) M 250V 1P 2.5mm ² S13/S107 GY	GREY	7021528966008	1063900
20180299	BU(I) M 250V 4P 2.5mm ² S13/S107 GY	GREY	7021528966183	
20161611	BU(I) M 250V 16P 2.5mm ² 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 ²) of conductors	-20°C
>25 mm		6 x D		