

BU(c) 250V S14/S108 Instr. cable, Unarmoured

Fire resistant, flame retardant halogen-free instrumentation cable.

BU(c) 150/250(300)V

MGT/EPR/EVA



BU(c) 250V NEK TS 606 Code S108
 BU(c) M 250V NEK TS 606 Code S14/S108

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

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 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.
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(c) M 250V S14/S108 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)
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	145	29
4	2	0.75	1.1	0.6	1.2	12 ± 0.8	225	54
8	2	0.75	1.1	0.6	1.4	16.5 ± 0.8	405	104
12	2	0.75	1.1	0.6	1.5	19 ± 0.8	555	154
16	2	0.75	1.1	0.6	1.6	21 ± 1	695	204
19	2	0.75	1.1	0.6	1.7	22 ± 1	810	241
24	2	0.75	1.1	0.6	1.8	25.5 ± 1	1000	304
2	3	0.75	1.1	0.6	1.2	12 ± 0.8	200	41
4	3	0.75	1.1	0.6	1.3	14 ± 0.8	305	79
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	580	153
16	3	0.75	1.1	0.6	1.7	24.5 ± 1	975	304
4	2	1.5	1.55	0.7	1.3	15 ± 0.8	340	107
2	2	2.5	1.9	0.7	1.3	14 ± 0.8	275	89

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 ²	100	0,67	26,3	12,7
Unshielded triple 0,75 mm ²	100	0,67	26,3	12,7
Unshielded pair 1,5 mm ²	110	0,63	12,9	24,4
Unshielded triple 1,5 mm ²	110	0,63	12,9	24,4
Unshielded pair 2,5 mm ²	125	0,59	8,02	36,8
Unshielded triple 2,5 mm ²	125	0,59	8,02	36,8

Ordering information

Part Number	Description	Sheath Colour	GTIN 1m	EL No.
20110778	BU(C) M 250V 2P 0.75mm ² S14/S108 GY	GREY	7021528968064	1064106
20115554	BU(C) M 250V 4P 0.75mm ² S14/S108 GY	GREY	7021528968187	1064118
20109519	BU(C) M 250V 8P 0.75mm ² S14/S108 GY	GREY	7021528968309	1064130
20119162	BU(C) M 250V 12P 0.75mm ² S14/S108 GY	GREY	7021528968361	1064136
20119164	BU(C) M 250V 16P 0.75mm ² S14/S108 GY	GREY	7021528968422	1064142
20163420	BU(C) M 250V 19P 0.75mm ² S14/S108 GY	GREY	7021528968453	1064145
20115190	BU(C) M 250V 24P 0.75mm ² S14/S108 GY	GREY	7021528968484	1064148
20109520	BU(C) M 250V 2T 0.75mm ² S14/S108 GY	GREY	7021528968668	1064166
20109521	BU(C) M 250V 4T 0.75mm ² S14/S108 GY	GREY	7021528968781	1064178
20109522	BU(C) M 250V 8T 0.75mm ² S14/S108 GY	GREY	7021528968903	1064190
20119166	BU(C) M 250V 16T 0.75mm ² S14/S108 GY	GREY	7021528969023	1064203
20204200	BU(C) M 250V 4P 1.5mm ² S14/S108 GY	GREY	7021528970180	1064318
20109523	BU(C) M 250V 2P 2.5mm ² S14/S108 GY	GREY	7021528972061	-

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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		

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Prysmian Group Norge AS
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