

RU(i) 250V S11/S105 Instr. cable, Unarmoured



Flame retardant halogen-free instrumentation cable.

RU(I) M 150/250(300)V

EPR/EVA

RU(i) 250V NEK TS 606 Code S105
 RU(i) M 250V NEK TS 606 Code S11/S105

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- and safe areas.
 RU(i) M 250V meets the Oil & Mud resistance requirement 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 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	R	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> RU(I) M 250V S11/S105 2 pair 0,75 mm ² IEC 60092-376 IEC 60332-3-22 Production no. <Prod.ordre no.>
Manufacturing unit		DRAKA 01 = Prysmian Group Norge AS
Outer sheath colour		Grey or Blue

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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	6.5 ± 0.5	82	17
2	2	0.75	1.1	0.6	1.1	9 ± 0.5	133	33
1	3	0.75	1.1	0.6	1	7 ± 0.5	93	23
1	2	1.5	1.55	0.7	1	8 ± 0.5	115	32
2	2	1.5	1.55	0.7	1.2	11.5 ± 0.8	205	62
4	2	1.5	1.55	0.7	1.3	14 ± 0.8	340	125
8	2	1.5	1.55	0.7	1.5	19 ± 0.8	638	250
12	2	1.5	1.55	0.7	1.6	22.5 ± 1	895	376
24	2	1.5	1.55	0.7	2	31 ± 1.5	1730	753
8	3	1.5	1.55	0.7	1.6	20.5 ± 1	818	353

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	EAN No. DNK	EL No.
20111817	RU(I) M 250V 1P 0.75mm ² S11/S105 GY	GREY	7021528950007	1062100
20109512	RU(I) M 250V 1P 0.75mm ² S11/S105 BU	BLUE	7021528950014	1062101
20112238	RU(I) M 250V 2P 0.75mm ² S11/S105 BU	BLUE	7021528950076	1062107
20112177	RU(I) M 250V 1T 0.75mm ² S11/S105 GY	GREY	7021528950601	1062160
20149208	RU(I) M 250V 1P 1.5mm ² S11/S105 GY	GREY	7021528952001	1062200
20110870	RU(I) M 250V 2P 1.5mm ² S11/S105 GY	GREY	7021528952063	1062206
20110871	RU(I) M 250V 2P 1.5mm ² S11/S105 BU	BLUE	7021528952070	1062207
20110782	RU(I) M 250V 4P 1.5mm ² S11/S105 GY	GREY	7021528952186	1062218
20205502	RU(I) M 250V 8P 1.5mm ² S11/S105 GY	GREY	7021528952308	1062230
20205503	RU(I) M 250V 12P 1.5mm ² S11/S105 GY	GREY	7021528952360	1062236
20205504	RU(I) M 250V 24P 1.5mm ² S11/S105 GY	GREY	7021528952483	1062248
20205505	RU(I) M 250V 8T 1.5mm ² S11/S105 GY	GREY	7021528952902	1062290

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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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