

## RU(c) 250V S12/S106 Instr. cable, Unarmoured

Flame retardant halogen-free instrumentation cable.

# RU(c) 150/250(300)V

EPR/EVA



RU(c) 250V    NEK TS 606 Code S106  
 RU(c) M 250V    NEK TS 606 Code S12/S106

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(c) 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	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-360 (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 thermoset compound, SHF2 (IEC 60092-360)
<b>Marking text (example)</b>		"meter" "year/week" DRAKA 01 Part no. <SAP code> RU(c) M 250V S12/S106 2 pair 0,75 mm <sup>2</sup> IEC 60092-376 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

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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 <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	9.5 ± 0.8	128	29
4	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	185	54
8	2	0.75	1.1	0.6	1.3	14.5 ± 0.8	340	104
16	2	0.75	1.1	0.6	1.5	18.5 ± 0.8	580	203
24	2	0.75	1.1	0.6	1.6	22.5 ± 1	825	303
2	3	0.75	1.1	0.6	1.1	10.5 ± 0.8	158	41
4	3	0.75	1.1	0.6	1.2	12 ± 0.8	249	78
8	3	0.75	1.1	0.6	1.4	16.5 ± 0.8	440	154
2	2	1.5	1.55	0.7	1.2	11.5 ± 0.8	195	57
4	2	1.5	1.55	0.7	1.2	13.5 ± 0.8	295	107
6	2	1.5	1.55	0.7	1.4	16.5 ± 0.8	450	158

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

### Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
20205506	RU(C) M 250V 2P 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956061	1062506
20205507	RU(C) M 250V 4P 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956184	1062518
20205508	RU(C) M 250V 8P 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956306	1062530
20132983	RU(C) M 250V 16P 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956429	1062542
20132984	RU(C) M 250V 24P 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956481	1062548
20205509	RU(C) M 250V 2T 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956665	1062566
20110873	RU(C) M 250V 4T 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956788	1062578
20205510	RU(C) M 250V 8T 0.75mm <sup>2</sup> S12/S106 GY	GREY	7021528956900	1062590
20109513	RU(C) M 250V 2P 1.5mm <sup>2</sup> S12/S106 GY	GREY	7021528958065	1062706
20205511	RU(C) M 250V 4P 1.5mm <sup>2</sup> S12/S106 GY	GREY	7021528958188	1062718
20226515	RU(C) M 250V 6P 1.5mm <sup>2</sup> S12/S106 GY	GREY	7021528958225	-

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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 <sup>2</sup> ) of conductors	-20°C
>25 mm		6 x D		

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**Prysmian Group Norge AS**  
[www.draka.no](http://www.draka.no) / [www.prysmiangroup.com](http://www.prysmiangroup.com)

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