



## RU(c) 250V S12 Instrumentation cable, Unarmoured

Flame retardant halogen-free instrumentation cable. Mud resistant

### RU(c) 250V

EPR/EVA

NEK 606 CodeS12



Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- (Zone 2) and safe areas. Meets the mud resistant requirements in NEK 606.

#### Standards applied

- IEC 60092-376 (2003-05) - Design
- IEC 60228 class 2 - Conductor
- IEC 60092-351 - Insulation
- IEC 60092-359 - Sheath
- IEC 60332-1 - Flame Retardant
- IEC 60332-3-22 - Flame Retardant
- IEC 600754-1,2 - Halogen Free
- IEC 61034-1,2 - Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Tinned stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (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 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 and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RU(c) 250V S12 2 pair 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey

#### Core identification instrumentation cables

- Pair Black - Light Blue
- Triple Black - Light Blue - Brown
- Quad Black - Light Blue - Brown - Grey



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### 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	10 ± 0.8	140	33
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	200	60
8	2	0.75	1.1	0.6	1.3	16 ± 0.8	410	116
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	520	172
16	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	660	227
19	2	0.75	1.1	0.6	1.5	20.5 ± 1	750	269
24	2	0.75	1.1	0.6	1.7	24 ± 1	950	338
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	170	47
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	270	89
8	3	0.75	1.1	0.6	1.4	17.5 ± 0.8	530	172
24	3	0.75	1.1	0.6	1	25.5 ± 1	1140	508
2	2	1.5	1.6	0.7	1.2	12 ± 0.8	210	62
4	2	1.5	1.6	0.7	1.2	14 ± 0.8	320	118
8	2	1.5	1.6	0.7	1.4	19.5 ± 0.8	630	229
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	339
16	2	1.5	1.6	0.7	1.7	24.5 ± 1	1080	450
24	2	1.5	1.6	0.7	1.9	30 ± 1.5	1550	672
2	3	1.5	1.6	0.7	1.2	13.5 ± 0.8	265	91
4	3	1.5	1.6	0.7	1.3	16 ± 0.8	430	174
8	3	1.5	1.6	0.7	1.5	21.5 ± 1	840	341
12	3	1.5	1.6	0.7	1.7	25.5 ± 1	1170	509
16	3	1.5	1.6	0.7	1.8	27.5 ± 1	1500	676
24	3	1.5	1.6	0.7	2.1	34 ± 1.5	2210	1010

### 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	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0



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### Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
895606	RU(C) 250V 2PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956061	-
895618	RU(C) 250V 4PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956184	-
895630	RU(C) 250V 8PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956306	-
895636	RU(C) 250V 12PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956368	-
895642	RU(C) 250V 16PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956429	-
895645	RU(C) 250V 19PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956450	-
895648	RU(C) 250V 24PAIR 0.75mm <sup>2</sup> S12	GREY	7021528956481	-
895666	RU(C) 250V 2TRIP 0.75mm <sup>2</sup> S12	GREY	7021528956665	-
895678	RU(C) 250V 4TRIP 0.75mm <sup>2</sup> S12	GREY	7021528956788	-
895690	RU(C) 250V 8TRIP 0.75mm <sup>2</sup> S12	GREY	7021528956900	-
895708	RU(C) 250V 24TRIP 0.75mm <sup>2</sup> S12	GREY	7021528957082	-
895806	RU(C) 250V 2PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958065	-
895818	RU(C) 250V 4PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958188	-
895830	RU(C) 250V 8PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958300	-
895836	RU(C) 250V 12PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958362	-
895842	RU(C) 250V 16PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958423	-
895848	RU(C) 250V 24PAIR 1.5mm <sup>2</sup> S12	GREY	7021528958485	-
895866	RU(C) 250V 2TRIP 1.5mm <sup>2</sup> S12	GREY	7021528958669	-
895878	RU(C) 250V 4TRIP 1.5mm <sup>2</sup> S12	GREY	7021528958782	-
895890	RU(C) 250V 8TRIP 1.5mm <sup>2</sup> S12	GREY	7021528958904	-
895896	RU(C) 250V 12TRIP 1.5mm <sup>2</sup> S12	GREY	7021528958966	-
895902	RU(C) 250V 16TRIP 1.5mm <sup>2</sup> S12	GREY	7021528959024	-
895908	RU(C) 250V 24TRIP 1.5mm <sup>2</sup> S12	GREY	7021528959086	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C