

# RU(c) 150/250(300)V S12 Instr. Cable, Unarmoured



Flame retardant halogen-free instrumentation cable. Mud resistant

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

NEK TS 606 CodeS12

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. Meets the mud resistant requirements in NEK TS 606:2009.

- |                         |                   |
|-------------------------|-------------------|
| 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 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 60092-351 (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 01 RU(c) 250V S12 2 pair 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22
<b>Manufacturing unit</b>		DRAKA 01 = Draka Norsk Kabel,
<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	10 ± 0.8	135	30
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	195	55
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	195	55
8	2	0.75	1.1	0.6	1.3	15.5 ± 0.8	380	106
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	510	158
16	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	640	209
19	2	0.75	1.1	0.6	1.5	20.5 ± 1	730	247
24	2	0.75	1.1	0.6	1.7	24 ± 1	920	311
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	170	43
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	265	81
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	265	81
8	3	0.75	1.1	0.6	1.4	17.5 ± 0.8	490	158
16	3	0.75	1.1	0.6	1.6	22 ± 1	870	313
24	3	0.75	1.1	0.6	1.8	27 ± 1	1260	467
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	610	229
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	340
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	340
16	2	1.5	1.6	0.7	1.7	24.5 ± 1	1090	452
24	2	1.5	1.6	0.7	1.9	30 ± 1.5	1550	674
2	3	1.5	1.6	0.7	1.2	13.5 ± 0.8	265	90
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	820	342
12	3	1.5	1.6	0.7	1.7	25.5 ± 1	1170	510
16	3	1.5	1.6	0.7	1.8	27.5 ± 1	1500	679
24	3	1.5	1.6	0.7	2.1	34 ± 1.5	2210	1015

### 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	Stock item	EAN No. DNK	EL No.
895606	RU(C) 250V 2PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956061	1062506
895618	RU(C) 250V 4PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956184	1062518
895619	RU(C) 250V 4PAIR 0.75mm <sup>2</sup> S12	BLUE	-	7021528956191	-
895630	RU(C) 250V 8PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956306	1062530
895636	RU(C) 250V 12PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956368	1062536
895642	RU(C) 250V 16PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956429	1062542
895645	RU(C) 250V 19PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956450	1062545

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895648	RU(C) 250V 24PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956481	1062548
895666	RU(C) 250V 2TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956665	1062566
895678	RU(C) 250V 4TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956788	1062578
895679	RU(C) 250V 4TRIP 0.75mm <sup>2</sup> S12	BLUE	-	7021528956795	-
895690	RU(C) 250V 8TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956900	1062590
895702	RU(C) 250V 16TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528957020	1062603
895708	RU(C) 250V 24TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528957082	1062608
895806	RU(C) 250V 2PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958065	1062706
895818	RU(C) 250V 4PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958188	1062718
895830	RU(C) 250V 8PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958300	1062730
895836	RU(C) 250V 12PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958362	1062736
895837	RU(C) 250V 12PAIR 1.5mm <sup>2</sup> S12	BLUE	-	7021528958379	1062737
895842	RU(C) 250V 16PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958423	1062742
895848	RU(C) 250V 24PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958485	1062748
895866	RU(C) 250V 2TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958669	1062766
895878	RU(C) 250V 4TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958782	1062778
895890	RU(C) 250V 8TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958904	1062790
895896	RU(C) 250V 12TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958966	1062794
895902	RU(C) 250V 16TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528959024	1062796
895908	RU(C) 250V 24TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528959086	1062798

### 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