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

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

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.

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 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 and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text		E.g. "meter" "year" DRAKA 01 RU(c) 250V S12 2 pair 0,75 mm2 IEC 60092-376 IEC 60332-3-22
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel,
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, mm²	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	1.6	24 ± 1	910	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	311
24	3	0.75	1.1	0.6	1.8	27 ± 1	1260	465
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	1080	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	341
12	3	1.5	1.6	0.7	1.7	25.5 ± 1	1170	508
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	1011

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 mm²	100	0,67	26,3	12,7
Unshielded triple 0,75 mm²	100	0,67	26,3	12,7
Unshielded pair 1,5 mm²	110	0,63	12,9	24,4
Unshielded triple 1,5 mm²	110	0,63	12,9	24,4
Unshielded pair 2,5 mm²	125	0,59	8,02	36,8
Unshielded triple 2,5 mm²	125	0,59	8,02	36,8

Ordering information

New Part number	Old Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
	895606	RU(C) 250V 2PAIR 0.75mm² S12	GREY	-	7021528956061	1062506
	895618	RU(C) 250V 4PAIR 0.75mm² S12	GREY	-	7021528956184	1062518
	895619	RU(C) 250V 4PAIR 0.75mm² S12	BLUE	-	7021528956191	-
	895630	RU(C) 250V 8PAIR 0.75mm² S12	GREY	-	7021528956306	1062530
	895636	RU(C) 250V 12PAIR 0.75mm² S12	GREY	-	7021528956368	1062536
20132983		RU(C) 250V 16PAIR 0.75mm² S12	GREY	-	7021528956429	1062542
	895645	RU(C) 250V 19PAIR 0.75mm² S12	GREY	-	7021528956450	1062545

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New Part number	Old Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
20132984		RU(C) 250V 24PAIR 0.75mm² S12	GREY	-	7021528956481	1062548
	895666	RU(C) 250V 2TRIP 0.75mm² S12	GREY	-	7021528956665	1062566
20110873		RU(C) 250V 4TRIP 0.75mm² S12	GREY	-	7021528956788	1062578
	895679	RU(C) 250V 4TRIP 0.75mm² S12	BLUE	-	7021528956795	-
	895690	RU(C) 250V 8TRIP 0.75mm² S12	GREY	-	7021528956900	1062590
	895702	RU(C) 250V 16TRIP 0.75mm² S12	GREY	-	7021528957020	1062603
	895708	RU(C) 250V 24TRIP 0.75mm² S12	GREY	-	7021528957082	1062608
20109513		RU(C) 250V 2PAIR 1.5mm² S12	GREY	-	7021528958065	1062706
	895818	RU(C) 250V 4PAIR 1.5mm² S12	GREY	-	7021528958188	1062718
	895830	RU(C) 250V 8PAIR 1.5mm² S12	GREY	-	7021528958300	1062730
	895836	RU(C) 250V 12PAIR 1.5mm² S12	GREY	-	7021528958362	1062736
	895837	RU(C) 250V 12PAIR 1.5mm² S12	BLUE	-	7021528958379	1062737
	895842	RU(C) 250V 16PAIR 1.5mm² S12	GREY	-	7021528958423	1062742
	895848	RU(C) 250V 24PAIR 1.5mm² S12	GREY	-	7021528958485	1062748
	895866	RU(C) 250V 2TRIP 1.5mm² S12	GREY	-	7021528958669	1062766
	895878	RU(C) 250V 4TRIP 1.5mm² S12	GREY	-	7021528958782	1062778
	895890	RU(C) 250V 8TRIP 1.5mm² S12	GREY	-	7021528958904	1062790
	895896	RU(C) 250V 12TRIP 1.5mm² S12	GREY	-	7021528958966	1062794
	895902	RU(C) 250V 16TRIP 1.5mm² S12	GREY	-	7021528959024	1062796
	895908	RU(C) 250V 24TRIP 1.5mm² S12	GREY	-	7021528959086	1062798

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 /mm²	-20°C
>25 mm		6 x D		