

Halogen-free, unarmoured mud resistant instrumentation cable RU(c) 250V, S12

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	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	R	EP-rubber, IEC 60092-351 (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 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 60092-359)
Marking text		E.g. "meter" "year" DRAKA NORSK KABEL RU(c) 250V S12 2 pair 0,75 mm2 IEC 60092-376 IEC 60332-3-22
Outer sheath colour		Grey or Blue



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)
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	530	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
16	3	0.75	1.1	0.6	1.6	22 ± 1	900	341
24	3	0.75	1.1	0.6	1.8	27 ± 1	1300	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
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 ²	100	0,67	24,8	14,3
Unshielded triple 0,75 mm ²	100	0,67	24,8	14,3
Unshielded pair 1,5 mm ²	110	0,63	12,2	26,6
Unshielded triple 1,5 mm ²	110	0,63	12,2	26,6
Unshielded pair 2,5 mm ²	125	0,59	7,56	39,0
Unshielded triple 2,5 mm ²	125	0,59	7,56	39,0

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895606	RU(C) 250V 2PAIR 0.75mm ² S12	GREY	-	7021528956061	-
895618	RU(C) 250V 4PAIR 0.75mm ² S12	GREY	-	7021528956184	-
895630	RU(C) 250V 8PAIR 0.75mm ² S12	GREY	-	7021528956306	-
895636	RU(C) 250V 12PAIR 0.75mm ² S12	GREY	-	7021528956368	-
895642	RU(C) 250V 16PAIR 0.75mm ² S12	GREY	-	7021528956429	-
895645	RU(C) 250V 19PAIR 0.75mm ² S12	GREY	-	7021528956450	-
895648	RU(C) 250V 24PAIR 0.75mm ² S12	GREY	-	7021528956481	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895666	RU(C) 250V 2TRIP 0.75mm ² S12	GREY	-	7021528956665	-
895678	RU(C) 250V 4TRIP 0.75mm ² S12	GREY	-	7021528956788	-
895690	RU(C) 250V 8TRIP 0.75mm ² S12	GREY	-	7021528956900	-
895702	RU(C) 250V 16TRIP 0.75mm ² S12	GREY	-	7021528957020	-
895708	RU(C) 250V 24TRIP 0.75mm ² S12	GREY	-	7021528957082	-
895806	RU(C) 250V 2PAIR 1.5mm ² S12	GREY	-	7021528958065	-
895818	RU(C) 250V 4PAIR 1.5mm ² S12	GREY	-	7021528958188	-
895830	RU(C) 250V 8PAIR 1.5mm ² S12	GREY	-	7021528958300	-
895836	RU(C) 250V 12PAIR 1.5mm ² S12	GREY	-	7021528958362	-
895837	RU(C) 250V 12PAIR 1.5mm ² S12	BLUE	-	7021528958379	-
895842	RU(C) 250V 16PAIR 1.5mm ² S12	GREY	-	7021528958423	-
895848	RU(C) 250V 24PAIR 1.5mm ² S12	GREY	-	7021528958485	-
895866	RU(C) 250V 2TRIP 1.5mm ² S12	GREY	-	7021528958669	-
895878	RU(C) 250V 4TRIP 1.5mm ² S12	GREY	-	7021528958782	-
895890	RU(C) 250V 8TRIP 1.5mm ² S12	GREY	-	7021528958904	-
895896	RU(C) 250V 12TRIP 1.5mm ² S12	GREY	-	7021528958966	-
895902	RU(C) 250V 16TRIP 1.5mm ² S12	GREY	-	7021528959024	-
895908	RU(C) 250V 24TRIP 1.5mm ² 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 ²	-20°C