

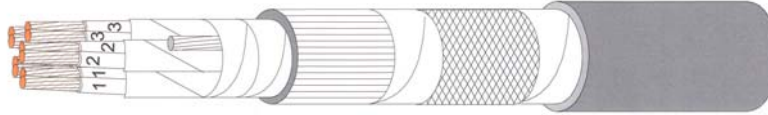


RFCU(c) 250V, Collective screen

Flame retardant halogen-free instrumentation cable. Enhanced oil-resistance.

RFCU(c) 250V

EPR/EPR/GSWB/LSF



Operating temperature : 90°C
Operating Voltage : 250V

Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- and safe areas. For installation in areas exposed to MUD and drilling/cleaning fluids.

Standards applied

BS 6883 / UKOOA	- Design
BS 6360 class 5 or 2	- Conductor
BS 7655 section 1.2	- Insulation
BS 7655 section 2.6	- 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 flexible circular copper (0,75, 1,0 and 1,5 mm ²), BS 6360, class 5, Tinned stranded copper (2,5 mm ²), BS6360 class 2
Insulation	R	EP-rubber, GP4 to BS 7655: section 1.2
Pair / Triple / Quad twisting		Color coded cores twisted together to a pair/triple and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by aluminium backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbers printed directly on the insulated conductors.
Inner covering	F	Flame retardant and halogen-free thermoset EP-rubber based compound
Tape over inner covering		PET tape + rubberized Polyamide tape
Armour/screen	C	Galvanized steel wire braid
Tape over armour/screen		PET tape + rubberized Polyamide tape
Outer sheath	U	Flame retardant, halogen-free, enhanced oil-resisting and mud resistant thermoset compound (LSF), SW4 to BS 7655 section 2.6
Marking text		E.g. "meter" "year" DRAKA NORSK KABEL RFCU(C) UKOOA TYPE 7P CODE KJJ00 150/250V 7 PAIR X 0,75 MM2 BS 6883 IEC 60332-3-22
Outer sheath colour		Grey or Blue



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Core identification instrumentation cables

Pair

Triple

Quad

Pair/Triple/Quad identification

Each core is identified by contrasting numerals and words, repeated along the whole length of the cable

Black - White

Black - White - Red

Black - White - Red - Blue

1 - One - 1 - One

2 - Two - 2 - Two - etc.

Range and dimensions

Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner Sheath, mm	Diameter Inner Sheath, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	2	0.75	1.15	0.8	1.2	12 ± 0.8	0.3	1.4	16.5 ± 0.8	420	45
7	2	0.75	1.15	0.8	1.4	16.5 ± 0.8	0.3	1.5	21 ± 1	660	97
12	2	0.75	1.15	0.8	1.6	21.5 ± 1	0.3	1.7	26 ± 1	1000	164
27	2	0.75	1.15	0.8	1.9	29 ± 1	0.45	2.2	35.5 ± 1.5	1980	359
3	2	0.75	1.15	0.8	1.2	12 ± 0.8	0.3	1.4	16.5 ± 0.8	420	45
7	2	0.75	1.15	0.8	1.4	16.5 ± 0.8	0.3	1.5	21 ± 1	660	97
12	2	0.75	1.15	0.8	1.6	21.5 ± 1	0.3	1.7	26 ± 1	1000	164
19	2	0.75	1.15	0.8	1.7	24.5 ± 1	0.45	1.9	30 ± 1.5	1460	257
27	2	0.75	1.15	0.8	1.9	29 ± 1	0.45	2.2	35.5 ± 1.5	1980	359
2	2	1	1.3	0.8	1.2	12 ± 0.8	0.3	1.4	16.5 ± 0.8	400	41
20	2	0.75	1.15	0.8	1.8	25.5 ± 1	0.45	2	31.5 ± 1.5	1570	271
20	2	0.75	1.15	0.8	1.8	25.5 ± 1	0.45	2	31.5 ± 1.5	1570	271
7	2	1.5	1.6	0.8	1.4	18.5 ± 0.8	0.3	1.6	23 ± 1	850	183
12	2	1.5	1.6	0.8	1.7	24.5 ± 1	0.45	1.9	30 ± 1.5	1470	309
20	2	1.5	1.6	0.8	1.9	29 ± 1	0.45	2.2	35.5 ± 1.5	2130	511
27	2	1.5	1.6	0.8	2.1	33.5 ± 1.5	0.45	2.4	40 ± 2	2650	687
7	3	0.75	1.15	0.8	1.4	18 ± 0.8	0.3	1.6	22.5 ± 1	820	144
12	3	0.75	1.15	0.8	1.7	24 ± 1	0.3	1.9	29 ± 1	1290	244
3	3	0.75	1.15	0.8	1.3	13.5 ± 0.8	0.3	1.4	18 ± 0.8	510	65
3	2	1.5	1.6	0.8	1.3	14 ± 0.8	0.3	1.4	18 ± 0.8	520	82
3	2	1.5	1.6	0.8	1.3	14 ± 0.8	0.3	1.4	18 ± 0.8	520	82
3	2	1	1.3	0.8	1.2	12.5 ± 0.8	0.3	1.4	17 ± 0.8	460	58
3	3	0.75	1.15	0.8	1.3	13.5 ± 0.8	0.3	1.4	18 ± 0.8	510	65
12	3	1.5	1.6	0.8	1.8	27.5 ± 1	0.45	2	33.5 ± 1.5	1840	461
3	2	1.5	1.6	0.8	1.3	14 ± 0.8	0.3	1.4	18 ± 0.8	520	82
5	2	1.5	1.6	0.8	1.4	17 ± 0.8	0.3	1.6	21.5 ± 1	730	132
2	2	0.75	1.15	0.8	1.2	11.5 ±	0.3	1.3	15.5 ±	370	31



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Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner Sheath, mm	Diameter Inner Sheath, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	1.5	1.6	0.8	1.2	0.8 13 ± 0.8	0.3	1.4	0.8 17 ± 0.8	450	57
5	2	0.75	1.15	0.8	1.3	15 ± 0.8	0.3	1.5	19.5 ± 0.8	570	71

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)	Insulation resistance (Minimum MOhm x km)
Unshielded pair 0,75 mm ²	80	0,75	26,7	14	940
Unshielded triple 0,75 mm ²	80	0,75	26,7	14	940
Unshielded pair 1,0 mm ²	85	0,73	20,0	18	840
Unshielded triple 1,0 mm ²	85	0,73	20,0	18	840
Unshielded pair 1,5 mm ²	90	0,68	13,7	24,8	730
Unshielded triple 1,5 mm ²	90	0,68	13,7	24,8	730
Unshielded pair 2,5 mm ²	90	0,70	7,56	46,3	620
Unshielded triple 2,5 mm ²	90	0,70	7,56	46,3	620

Ordering information

Part number	Description	Sheath Colour	Design standard	UKOOA Code
840003	RFCU(C) 250V 3PAIR 0.75mm ²	GREY	BS 6883 : 1999	KJH00
840004	RFCU(C) 250V 7PAIR 0.75mm ²	GREY	BS 6883 : 1999	KJJ00
840005	RFCU(C) 250V 12PAIR 0.75mm ²	GREY	BS 6883 : 1999	KJK00
840007	RFCU(C) 250V 27PAIR 0.75mm ²	GREY	BS 6883 : 1999	KJM00
840023	RFCU(C) 250V 3PAIR 0.75mm ²	BLUE	BS 6883 : 1999	KGH00
840024	RFCU(C) 250V 7PAIR 0.75mm ²	BLUE	BS 6883 : 1999	KGJ00
840025	RFCU(C) 250V 12PAIR 0.75mm ²	BLUE	BS 6883 : 1999	KGK00
840026	RFCU(C) 250V 19PAIR 0.75mm ²	BLUE	BS 6883 : 1991	-
840027	RFCU(C) 250V 27PAIR 0.75mm ²	BLUE	BS 6883 : 1999	KGM00
840117	RFCU(C) 250V 2PAIR 1mm ²	GREY	BS 6883 : 1991	-
840128	RFCU(C) 250V 20PAIR 0.75mm ²	GREY	BS 6883 : 1999	KJL00
840156	RFCU(C) 250V 20PAIR 0.75mm ²	BLUE	BS 6883 : 1999	KGL00
840176	RFCU(C) 250V 7PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJJ02
840177	RFCU(C) 250V 12PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJK02
840178	RFCU(C) 250V 20PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJL02
840179	RFCU(C) 250V 27PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJM02
840222	RFCU(C) 250V 7TRIP 0.75mm ²	BLUE	BS 6883 : 1999	KGT00
840223	RFCU(C) 250V 12TRIP 0.75mm ²	BLUE	BS 6883 : 1999	KGU00
840231	RFCU(C) 250V 3TRIP 0.75mm ²	GREY	BS 6883 : 1999	KJS00
840236	RFCU(C) 250V 3PAIR 1.5mm ²	BLUE	BS 6883 : 1991	KGH02
840237	RFCU(C) 250V 3PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJH02
840241	RFCU(C) 250V 3PAIR 1mm ²	GREY	BS 6883 : 1999	KJH01
840274	RFCU(C) 250V 3TRIP 0.75mm ²	GREY	BS 6883 : 1999	KJS00
840277	RFCU(C) 250V 12TRIP 1.5mm ²	BLUE	BS 6883 : 1991	KGU02
840294	RFCU(C) 250V 3PAIR 1.5mm ²	GREY	BS 6883 : 1991	KJH02
840295	RFCU(C) 250V 5PAIR 1.5mm ²	GREY	BS 6883 : 1991	-
840332	RFCU(C) 250V 2PAIR 0.75mm ²	GREY	BS 6883 : 1991	-
840333	RFCU(C) 250V 2PAIR 1.5mm ²	GREY	BS 6883 : 1991	-
840334	RFCU(C) 250V 5PAIR 0.75mm ²	GREY	BS 6883 : 1991	-



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Installation recommendations

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