

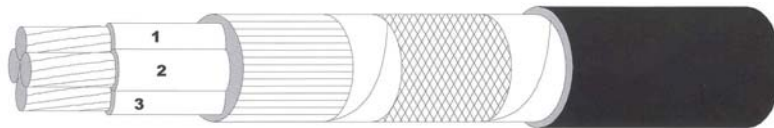


RFCU 0,6/1kV, Power cable

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

RFCU 0,6/1kV

EPR/EPR/GSWB/LSF



Operating temperature : 90°C
Operating Voltage : 0,6/1kV

Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

Standards applied

BS 6883 / UKOOA	- Design
BS 6360 class 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 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Tinned stranded circular copper, BS 6360, class 2
Insulation	R	EP-rubber, GP4 to BS 7655: section 1.2
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	F	Flame retardant and halogen-free thermoset 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" "år" DRAKA NORSK KABEL RFCU UKOOA TYPE 3C CODE WB316 600/1000V 3C x 16 mm ² BS 6883 IEC 60332-3-22
Outer sheath colour		Black

Core identification power cables

All cores are numbered Offwhite - Black numbers No.1, 2, 3



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Range and dimensions

Number of elements	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	1.5	1.6	0.8	1.1	8.5 ± 0.5	0.3	1.2	12.5 ± 0.8	280	28
2	2.5	2.0	0.8	1.1	9.5 ± 0.5	0.3	1.2	13.5 ± 0.8	320	46
2	4	2.55	1.0	1.2	11.5 ± 0.8	0.3	1.3	15.5 ± 0.8	440	74
3	1.5	1.6	0.8	1.1	9 ± 0.5	0.3	1.2	13 ± 0.8	310	42
3	2.5	2.0	0.8	1.1	10 ± 0.8	0.3	1.3	14 ± 0.8	360	69
3	4	2.55	1.0	1.2	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	490	110
3	6	3.15	1.0	1.2	13.5 ± 0.8	0.3	1.4	18 ± 0.8	610	164
3	16	5.15	1.0	1.4	18.5 ± 0.8	0.3	1.6	23 ± 1	1120	434
3	35	7.65	1.2	1.7	25.5 ± 1	0.45	1.9	31 ± 1.5	2150	927
3	70	10.85	1.4	2	34 ± 1.5	0.45	2.2	40.5 ± 2	3770	1863
4	1.5	1.6	0.8	1.1	10 ± 0.8	0.3	1.3	14 ± 0.8	350	56
4	4	2.55	1.0	1.2	13.5 ± 0.8	0.3	1.4	18 ± 0.8	590	147
4	6	3.15	1.0	1.3	15 ± 0.8	0.3	1.5	19.5 ± 0.8	740	218
4	16	5.15	1.0	1.5	20.5 ± 1	0.3	1.7	25.5 ± 1	1390	578
4	25	6.45	1.2	1.7	25 ± 1	0.45	1.9	31 ± 1.5	2130	917
4	35	7.65	1.2	1.8	28 ± 1	0.45	2	34 ± 1.5	2620	1236
7	2.5	2.0	0.8	1.2	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	590	161
12	2.5	2.0	0.8	1.4	18 ± 0.8	0.3	1.6	22.5 ± 1	900	275
19	2.5	2.0	0.8	1.5	21 ± 1	0.3	1.7	26 ± 1	1240	435
4	70	10.85	1.4	2.1	38 ± 1.5	0.45	2.4	44.5 ± 2	4670	2484
3	10	4.05	1.0	1.3	16 ± 0.8	0.3	1.5	20.5 ± 1	830	271
3	25	6.45	1.2	1.6	22.5 ± 1	0.3	1.8	28 ± 1	1640	688
4	10	4.05	1.0	1.4	17.5 ± 0.8	0.3	1.6	22.5 ± 1	1000	361
19	1.5	1.6	0.8	1.4	19 ± 0.8	0.3	1.6	23.5 ± 1	960	264
4	50	9.0	1.4	1.9	33 ± 1.5	0.45	2.2	39.5 ± 1.5	3480	1716
4	95	12.60	1.6	2.3	43.5 ± 2	0.45	2.6	50.5 ± 2.5	6080	3351
2	6	3.15	1.0	1.2	13 ± 0.8	0.3	1.4	17 ± 0.8	540	109
4	6	3.15	1.0	1.3	15 ± 0.8	0.3	1.5	19.5 ± 0.8	740	218
37	2.5	2.0	0.8	1.8	29 ± 1	0.45	2	35 ± 1.5	2270	847
2	16	5.15	1.0	1.4	17.5 ± 0.8	0.3	1.5	22 ± 1	940	289
27	2.5	2.0	0.8	1.7	25.5 ± 1	0.45	1.9	31.5 ± 1.5	1820	618
7	1.5	1.6	0.8	1.2	12 ± 0.8	0.3	1.3	16 ± 0.8	470	98
12	1.5	1.6	0.8	1.3	16 ± 0.8	0.3	1.5	20.5 ± 1	710	167
2	35	7.65	1.2	1.6	23.5 ± 1	0.3	1.8	28.5 ± 1	1650	618
3	50	9.0	1.4	1.8	29.5 ± 1	0.45	2	35.5 ± 1.5	2830	1287
4	2.5	2.0	0.8	1.1	11 ± 0.8	0.3	1.3	15 ± 0.8	420	92
3	95	12.60	1.6	2.2	39 ± 1.5	0.45	2.4	46 ± 2	4860	2513
5	1.5	1.6	0.8	1.1	11 ± 0.8	0.3	1.3	15 ± 0.8	440	83

Ordering information

Part number	Description	Sheath Colour	Design standard	UKOOA Code
840049	RFCU 0.6/1kV 2X 1.5mm ²	BLACK	BS 6883 : 1999	WB202
840050	RFCU 0.6/1kV 2X 2.5mm ²	BLACK	BS 6883 : 1999	WB203
840051	RFCU 0.6/1kV 2X 4mm ²	BLACK	BS 6883 : 1999	WB204
840052	RFCU 0.6/1kV 3X 1.5mm ²	BLACK	BS 6883 : 1999	WB302
840053	RFCU 0.6/1kV 3X 2.5mm ²	BLACK	BS 6883 : 1999	WB303
840054	RFCU 0.6/1kV 3X 4mm ²	BLACK	BS 6883 : 1999	WB304
840055	RFCU 0.6/1kV 3X 6mm ²	BLACK	BS 6883 : 1999	WB306
840056	RFCU 0.6/1kV 3X 16mm ²	BLACK	BS 6883 : 1999	WB316



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Part number	Description	Sheath Colour	Design standard	UKOOA Code
840057	RFCU 0.6/1kV 3X 35mm ²	BLACK	BS 6883 : 1999	WB335
840058	RFCU 0.6/1kV 3X 70mm ²	BLACK	BS 6883 : 1999	WB370
840059	RFCU 0.6/1kV 4X 1.5mm ²	BLACK	BS 6883 : 1999	WB402
840061	RFCU 0.6/1kV 4X 4mm ²	BLACK	BS 6883 : 1999	WB404
840062	RFCU 0.6/1kV 4X 6mm ²	BLACK	BS 6883 : 1999	WB406
840063	RFCU 0.6/1kV 4X 16mm ²	BLACK	BS 6883 : 1999	WB416
840064	RFCU 0.6/1kV 4X 25mm ²	BLACK	BS 6883 : 1999	WB425
840065	RFCU 0.6/1kV 4X 35mm ²	BLACK	BS 6883 : 1999	WB435
840068	RFCU 0.6/1kV 7X 2.5mm ²	BLACK	BS 6883 : 1999	WB703
840070	RFCU 0.6/1kV 12X 2.5mm ²	BLACK	BS 6883 : 1999	WBA03
840071	RFCU 0.6/1kV 19X 2.5mm ²	BLACK	BS 6883 : 1999	WBB03
840088	RFCU 0.6/1kV 4X 70mm ²	BLACK	BS 6883 : 1999	WB470
840154	RFCU 0.6/1kV 3X 10mm ²	BLACK	BS 6883 : 1999	WB310
840158	RFCU 0.6/1kV 3X 25mm ²	BLACK	BS 6883 : 1999	WB325
840159	RFCU 0.6/1kV 4X 10mm ²	BLACK	BS 6883 : 1999	WB410
840160	RFCU 0.6/1kV 19X 1.5mm ²	BLACK	BS 6883 : 1999	WBB02
840166	RFCU 0.6/1kV 4X 50mm ²	BLACK	BS 6883 : 1999	WB450
840242	RFCU 0.6/1kV 4X 95mm ²	BLACK	BS 6883 : 1999	WB495
840245	RFCU 0.6/1kV 2X 6mm ²	BLACK	BS 6883 : 1999	WB206
840246	RFCU 0.6/1kV 4X 6mm ²	BLACK	BS 6883 : 1999	WB406
840256	RFCU 0.6/1kV 37X 2.5mm ²	BLACK	BS 6883 : 1991	WBD03
840258	RFCU 0.6/1kV 2X 16mm ²	BLACK	BS 6883 : 1999	WB216
840262	RFCU 0.6/1kV 27X 2.5mm ²	BLACK	BS 6883 : 1991	WBC03
840263	RFCU 0.6/1kV 7X 1.5mm ²	BLACK	BS 6883 : 1999	WB702
840264	RFCU 0.6/1kV 12X 1.5mm ²	BLACK	BS 6883 : 1999	WBA02
840269	RFCU 0.6/1kV 2X 35mm ²	BLACK	BS 6883 : 1999	WB235
840283	RFCU 0.6/1kV 3X 50mm ²	BLACK	BS 6883 : 1999	WB350
840284	RFCU 0.6/1kV 4X 2.5mm ²	BLACK	BS 6883 : 1999	WB403
840311	RFCU 0.6/1kV 3X 95mm ²	BLACK	BS 6883 : 1999	WB395
840338	RFCU 0.6/1kV 5X 1.5mm ²	BLACK	BS 6883 : 1999	-

Electrical values power cables

Number of elements	Cross section core, mm ²	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
2	1.5	12.2	15.6	0.103	0.123	20	210
2	2.5	7.56	9.64	0.096	0.115	26	350
2	4	4.7	5.99	0.096	0.115	34	560
3	1.5	12.2	15.6	0.103	0.123	16	210
3	2.5	7.56	9.64	0.096	0.115	21	350
3	4	4.7	5.99	0.096	0.115	28	560
3	6	3.11	3.97	0.090	0.108	36	840
3	16	1.16	1.48	0.080	0.096	67	2240
3	35	0.529	0.675	0.076	0.092	110	4900
3	70	0.27	0.344	0.074	0.088	169	9800
4	1.5	12.2	15.6	0.103	0.123	16	210
4	4	4.7	5.99	0.096	0.115	28	560
4	6	3.11	3.97	0.090	0.108	36	840
4	16	1.16	1.48	0.080	0.096	67	2240
4	25	0.734	0.936	0.079	0.095	89	3500
4	35	0.529	0.675	0.076	0.092	110	4900
7	2.5	7.56	9.64	0.096	0.115	15.5	350



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Number of elements	Cross section core, mm ²	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
12	2.5	7.56	9.64	0.096	0.115	13	350
19	2.5	7.56	9.64	0.096	0.115	11	350
4	70	0.27	0.344	0.074	0.088	169	9800
3	10	1.84	2.35	0.084	0.101	50	1400
3	25	0.734	0.936	0.079	0.095	89	3500
4	10	1.84	2.35	0.084	0.101	50	1400
19	1.5	12.2	15.6	0.103	0.123	8.5	210
4	50	0.391	0.499	0.076	0.092	137	7000
4	95	0.195	0.249	0.073	0.088	205	13300
2	6	3.11	3.97	0.090	0.108	44	840
4	6	3.11	3.97	0.090	0.108	36	840
37	2.5	7.56	9.64	0.096	0.115	9	350
2	16	1.16	1.48	0.080	0.096	80	2240
27	2.5	7.56	9.64	0.096	0.115	10	350
7	1.5	12.2	15.6	0.103	0.123	12	210
12	1.5	12.2	15.6	0.103	0.123	10	210
2	35	0.529	0.675	0.076	0.092	133	4900
3	50	0.391	0.499	0.076	0.092	137	7000
4	2.5	7.56	9.64	0.096	0.115	21	350
3	95	0.195	0.249	0.073	0.088	205	13300
5	1.5	12.2	15.6	0.103	0.123	13.5	210

Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.11	1.05	1.00	0.94	0.88	0.82	0.75	0.67	0.50	0.47

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	OD < 25 mm - 4 x D, OD > 25 mm - 6 x D	50 N /mm ²	-20°C