



## ShiplineFR BXOI 0,6/1kV Power cable



Fire resistant and flame retardant halogen-free power cable. Braided

### BXOI 0,6/1kV

MGT/XLPE/TCWB/PO

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

#### Application

Armoured fire resistant cable for fixed installation in ships where cable protection is required. Control, alarm, power, emergency and critical systems. Can be installed and operated both indoors and outdoors.

#### Standards applied

IEC 60092-353	- 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 60331-21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Annealed stranded copper, IEC 60228 class 2, stranded circular copper SCC (single core cables 1,5 ... 300 mm <sup>2</sup> , multicore cables 1,5 ... 35 mm <sup>2</sup> ), sector shaped copper SSC (3 and 4 core cables above 35 mm <sup>2</sup> )
<b>Insulation</b>	<b>B</b>	Mica-tape + HFXLPE, IEC 60092-351 (HFXLPE)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>X</b>	No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		Additional tape may be applied
<b>Outer sheath</b>	<b>I</b>	Flame retardant halogen-free thermoplastic compound, SHF1
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 BXOI 0,6/1KV 3 x 2,5/2,5 mm <sup>2</sup> IEC 60331-21 IEC 60332-3-22 ShipLine
<b>Manufacturing unit</b>		DRAKA 01 = Draka Norsk Kabel, DRAKA 02 = Draka Kabel BV Amsterdam, DRAKA 03 = Draka Kabel BV Emmen
<b>Outer sheath colour</b>		Green



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### Core identification power cables

Single core	Black
Two cores	Blue - Brown
Three cores	Brown - Black - Grey
Four cores	Blue - Brown - Black - Grey
Five cores	Blue - Brown - Black - Grey - Black
Seven cores and above	White with black numbers
Two cores + earth (3G)	Yellow/green - Blue - Brown
Three cores + earth (4G)	Yellow/green - Brown - Black - Grey
Four cores + earth (5G)	Yellow/green - Blue - Brown - Black - Grey

### Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	35	4	7.6	0.9	0.2	1.2	13 ± 0.8	480	367
1	95	6	12.6	1.1	0.3	1.4	19.5 ± 0.8	1170	973
1	185	10	18.3	1.6	0.3	1.6	26.5 ± 1	2290	1963
2	1.5	2.5	1.6	0.7	0.2	1.1	9.5 ± 0.5	130	65
3	1.5	2.5	1.6	0.7	0.2	1.1	10 ± 0.8	150	79
4	1.5	2.5	1.6	0.7	0.2	1.2	11.5 ± 0.8	190	100
5	1.5	4	1.6	0.7	0.2	1.2	12 ± 0.8	230	122
7	1.5	6	1.6	0.7	0.3	1.3	13.5 ± 0.8	310	181
12	1.5	6	1.6	0.7	0.3	1.4	17.5 ± 0.8	460	267
27	1.5	10	1.6	0.7	0.3	1.7	25 ± 1	910	551
2	2.5	2.5	2	0.7	0.2	1.1	10.5 ± 0.8	160	90
3	2.5	2.5	2	0.7	0.2	1.1	11 ± 0.8	195	113
2	4	4	2.55	0.7	0.2	1.2	12 ± 0.8	215	125
3	4	4	2.55	0.7	0.2	1.2	12.5 ± 0.8	265	162
2	6	6	3.15	0.7	0.3	1.3	13.5 ± 0.8	295	198
3	6	6	3.15	0.7	0.3	1.3	14.5 ± 0.8	370	254
3	10	10	4.05	0.7	0.3	1.3	16.5 ± 0.8	540	391
3	16	16	5.15	0.7	0.5	1.4	19.5 ± 0.8	830	644
3	25	16	6.4	0.9	0.4	1.6	23 ± 1	1150	913
3	35	16	7.6	0.9	0.4	1.7	26.5 ± 1	1490	1169
3	70	35	-	1.1	0.6	1.9	30 ± 1.5	2700	2239
3	95	50	-	1.1	0.6	2.1	35.5 ± 1.5	3710	3117

### Ordering information

Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
839402	BXOI 0.6/1kV 1X 35/4mm <sup>2</sup>	7021528394023	-	128147NN	8711401104359
839405	BXOI 0.6/1kV 1X 95/6mm <sup>2</sup>	7021528394054	-	128148NN	8711401104366
839408	BXOI 0.6/1kV 1X 185/10mm <sup>2</sup>	7021528394085	-	128149NN	8711401104373
839415	BXOI 0.6/1kV 2X 1.5/2.5mm <sup>2</sup>	7021528394153	1059720	125758NN	8711401030856
839418	BXOI 0.6/1kV 3X 1.5/2.5mm <sup>2</sup>	7021528394184	1059740	125760NN	8711401030863
839421	BXOI 0.6/1kV 4X 1.5/2.5mm <sup>2</sup>	7021528394214	-	-	-
839424	BXOI 0.6/1kV 5X 1.5/4mm <sup>2</sup>	7021528394245	1059790	126456NN	8711401039415
839425	BXOI 0.6/1kV 7X 1.5/6mm <sup>2</sup>	7021528394252	1059800	125761NN	8711401030870
839427	BXOI 0.6/1kV 12X 1.5/6mm <sup>2</sup>	7021528394276	1059803	125762NN	8711401030887
839431	BXOI 0.6/1kV 27X 1,5/10mm <sup>2</sup>	7021528394313	-	-	-
839433	BXOI 0.6/1kV 2X 2.5/2.5mm <sup>2</sup>	7021528394337	1059721	125764NN	8711401030900
839436	BXOI 0.6/1kV 3X 2.5/2.5mm <sup>2</sup>	7021528394368	1059741	125763NN	8711401030894
839450	BXOI 0.6/1kV 2X 4/4mm <sup>2</sup>	7021528394504	-	-	-
839451	BXOI 0.6/1kV 3X 4/4mm <sup>2</sup>	7021528394511	1059742	126457NN	8711401039422
839456	BXOI 0.6/1kV 2X 6/6mm <sup>2</sup>	7021528394566	-	-	-
839457	BXOI 0.6/1kV 3X 6/6mm <sup>2</sup>	7021528394573	1059743	126986NN	8711401050229
839463	BXOI 0.6/1kV 3X 10/10mm <sup>2</sup>	7021528394634	1059744	124765NN	8711401030917
839469	BXOI 0.6/1kV 3X 16/16mm <sup>2</sup>	7021528394696	1059745	-	-



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Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
839475	BXOI 0,6/1kV 3X 25/16 mm <sup>2</sup>	7021528394757	-	128142NN	8711401104304
839481	BXOI 0.6/1kV 3X 35/16mm <sup>2</sup>	7021528394818	-	128143NN	8711401104311
839493	BXOI 0.6/1kV 3X 70/35mm <sup>2</sup>	7021528394931	-	128145NN	8711401104335
839498	BXOI 0.6/1kV 3X 95/50mm <sup>2</sup>	7021528394986	-	128146NN	8711401104342

### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 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
1	35	4	SCC	0.524	0.668	0.094	0.112	157	4900
1	95	6	SCC	0.193	0.246	0.086	0.104	293	13300
1	185	10	SCC	0.0991	0.1264	0.083	0.099	444	25900
2	1.5	2.5	SCC	12.1	15.428	0.105	0.126	20	210
3	1.5	2.5	SCC	12.1	15.428	0.105	0.126	16	210
4	1.5	2.5	SCC	12.1	15.428	0.105	0.126	14	210
5	1.5	4	SCC	12.1	15.428	0.105	0.126	13.5	210
7	1.5	6	SCC	12.1	15.428	0.105	0.126	12	210
12	1.5	6	SCC	12.1	15.428	0.105	0.126	10	210
27	1.5	10	SCC	12.1	15.428	0.105	0.126	6.5	210
2	2.5	2.5	SCC	7.41	9.448	0.098	0.117	26	350
3	2.5	2.5	SCC	7.41	9.448	0.098	0.117	21	350
2	4	4	SCC	4.61	5.878	0.091	0.110	28	560
3	4	4	SCC	4.61	5.878	0.091	0.110	28	560
2	6	6	SCC	3.08	3.927	0.086	0.104	36	840
3	6	6	SCC	3.08	3.927	0.086	0.104	36	840
3	10	10	SCC	1.83	2.333	0.081	0.098	50	1400
3	16	16	SCC	1.15	1.466	0.077	0.093	63	2240
3	25	16	SCC	0.727	0.927	0.077	0.093	89	3500
3	35	16	SCC	0.524	0.668	0.075	0.089	110	4900
3	70	35	SSC	0.268	0.342	0.074	0.088	169	9800
3	95	50	SSC	0.193	0.246	0.072	0.086	205	13300

### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	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	6 x D	50 N /mm <sup>2</sup>	-10°C