



Flame retardant halogen-free power cable.
Braided

TXOI 0,6/1kV

XLPE/TCWB/PO

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

Application

Armoured cable for fixed installation in ships where cable protection is required. Control, general power and lighting 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 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Annealed stranded copper, IEC 60228 class 2, stranded circular copper SCC (single core cables 1,5 ... 300 mm ² , multicore cables 1,5 ... 35 mm ²), sector shaped copper SSC (3 and 4 core cables above 35 mm ²)
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	X	No inner covering. (Additional tapes may be applied)
Armour/screen	O	Tinner copper wire braid
Outer sheath	I	Flame retardant halogen-free thermoplastic compound, SHF1
Marking text		E.g. "meter" "year" DRAKA 01 TXOI 0,6/1KV 3 x 10/10 mm ² IEC 60332-3-22 ShipLine
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel, DRAKA 02 = Draka Kabel BV Amsterdam, DRAKA 03 = Draka Kabel BV Emmen
Outer sheath colour		Black

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 ²	Cross section screen, mm ²	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	16	2.5	5.15	0.7	0.2	1.1	10 ± 0.8	250	182
1	25	4	6.4	0.9	0.2	1.2	11.5 ± 0.8	370	281
1	35	4	7.6	0.9	0.2	1.2	12.5 ± 0.8	470	367
1	50	6	9.5	1.0	0.3	1.3	15.5 ± 0.8	720	582
1	70	6	10.7	1.1	0.3	1.4	17 ± 0.8	920	717
1	95	6	12.6	1.1	0.3	1.4	18.5 ± 0.8	1190	981
1	120	10	14.6	1.2	0.3	1.5	21 ± 1	1520	1281
1	150	10	15.9	1.4	0.3	1.6	23 ± 1	1820	1525
1	185	10	18.3	1.6	0.3	1.6	26 ± 1	2290	1961
1	240	10	19.8	1.7	0.3	1.7	28 ± 1	2800	2302
1	300	16	23.9	1.8	0.3	1.8	32 ± 1.5	3850	3289
27	1.5	10	1.6	0.7	0.3	1.6	23 ± 1	810	509
37	1.5	10	1.6	0.7	0.3	1.7	25.5 ± 1	1080	692
48	1.5	16	1.6	0.7	0.3	1.8	29.5 ± 1	1350	867
2	1.5	2.5	1.6	0.7	0.2	1.1	9 ± 0.5	120	64
3G	1.5	-	1.6	0.7	0.2	1.1	9.5 ± 0.5	145	79
3	1.5	2.5	1.6	0.7	0.2	1.1	9.5 ± 0.5	145	79
4G	1.5	-	1.6	0.7	0.2	1.1	10.5 ± 0.8	175	100
4	1.5	2.5	1.6	0.7	0.2	1.1	10.5 ± 0.8	175	100
5G	1.5	-	1.6	0.7	0.2	1.2	11.5 ± 0.8	215	114
5	1.5	2.5	1.6	0.7	0.2	1.2	11.5 ± 0.8	215	114
7	1.5	4	1.6	0.7	0.2	1.2	12.5 ± 0.8	255	150
10	1.5	6	1.6	0.7	0.3	1.3	16 ± 0.8	390	239
12	1.5	6	1.6	0.7	0.3	1.4	16.5 ± 0.8	440	267
14	1.5	6	1.6	0.7	0.3	1.4	17 ± 0.8	500	311
16	1.5	6	1.6	0.7	0.3	1.4	18 ± 0.8	550	339
19	1.5	6	1.6	0.7	0.3	1.5	19 ± 0.8	610	381
24	1.5	10	1.6	0.7	0.3	1.6	22.5 ± 1	760	470
2	2.5	2.5	2.0	0.7	0.2	1.1	10 ± 0.8	150	84
3G	2.5	-	2.0	0.7	0.2	1.1	10.5 ± 0.8	185	113
3	2.5	2.5	2.0	0.7	0.2	1.1	10.5 ± 0.8	190	113
4G	2.5	-	2.0	0.7	0.2	1.2	11.5 ± 0.8	230	136
4	2.5	2.5	2.0	0.7	0.2	1.2	11.5 ± 0.8	230	136
5G	2.5	-	2.0	0.7	0.2	1.2	12.5 ± 0.8	280	166
5	2.5	4	2.0	0.7	0.2	1.2	12.5 ± 0.8	280	167
7	2.5	6	2.0	0.7	0.3	1.3	14 ± 0.8	380	244
12	2.5	6	2.0	0.7	0.3	1.4	18 ± 0.8	590	392
19	2.5	10	2.0	0.7	0.3	1.5	21 ± 1	850	569
27	2.5	10	2.0	0.7	0.3	1.7	25.5 ± 1	1170	794
37	2.5	16	2.0	0.7	0.3	1.8	28.5 ± 1	1530	1053
2	4	4	2.55	0.7	0.2	1.2	11 ± 0.8	200	120
3	4	4	2.55	0.7	0.2	1.2	12 ± 0.8	255	162
4	4	6	2.55	0.7	0.3	1.3	13.5 ± 0.8	350	230
4G	4	-	2.55	0.7	0.3	1.3	13.5 ± 0.8	350	230
2	6	6	3.15	0.7	0.3	1.2	12.5 ± 0.8	285	197
3	6	6	3.15	0.7	0.3	1.3	13.5 ± 0.8	360	253
4	6	6	3.15	0.7	0.3	1.3	15 ± 0.8	430	310
4G	6	-	3.15	0.7	0.3	1.3	15 ± 0.8	430	310
2	10	10	4.05	0.7	0.4	1.3	15 ± 0.8	430	314
3	10	10	4.05	0.7	0.4	1.3	16 ± 0.8	540	405
4	10	10	4.05	0.7	0.3	1.4	17 ± 0.8	650	480
2	16	16	5.15	0.7	0.5	1.4	18 ± 0.8	660	498



Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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)
3	16	16	5.15	0.7	0.4	1.4	18.5 ± 0.8	810	624
4	16	16	5.15	0.7	0.5	1.5	21 ± 1	1010	789
2	25	16	6.4	0.9	0.5	1.5	21 ± 1	860	668
3	25	16	6.4	0.9	0.4	1.6	22.5 ± 1	1110	879
4	25	16	6.4	0.9	0.4	1.6	24.5 ± 1	1410	1142
2	35	16	7.6	0.9	0.4	1.6	23.5 ± 1	1090	853
3	35	16	7.6	0.9	0.3	1.6	24.5 ± 1	1410	1136
4	35	16	7.6	0.9	0.3	1.7	27.5 ± 1	1790	1462
3	50	25	-	1.0	0.5	1.8	26 ± 1	1910	1587
4	50	25	-	1.0	0.5	1.9	28.5 ± 1	2450	2001
3	70	35	-	1.1	0.6	2	29.5 ± 1	2650	2232
4	70	35	-	1.1	0.5	2.1	34 ± 1.5	3450	2845
3	95	50	-	1.1	0.6	2.1	34.5 ± 1.5	3600	3070
4	95	50	-	1.1	0.6	2.2	38 ± 1.5	4600	3904
3	120	25	-	1.2	0.4	2.2	36 ± 1.5	4020	3453

Ordering information

Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838600	TXOI 0,6/1KV 1X 16/2,5mm2	7021528386004	1059006	124884NN	8711401019226
838601	TXOI 0,6/1KV 1X 25/4mm2	7021528386011	1059007	124885NN	8711401019233
838602	TXOI 0,6/1KV 1X 35/4mm2	7021528386028	1059008	124886NN	8711401019240
838603	TXOI 0,6/1KV 1X 50/6mm2	7021528386035	1059009	124887NN	8711401019257
838604	TXOI 0,6/1KV 1X 70/6mm2	7021528386042	1059010	124888NN	8711401019264
838605	TXOI 0,6/1KV 1X 95/6mm2	7021528386059	1059011	124889NN	8711401019271
838606	TXOI 0,6/1KV 1X 120/10mm2	7021528386066	1059012	124890NN	8711401019288
838607	TXOI 0,6/1KV 1X 150/10mm2	7021528386073	1059013	124891NN	8711401019295
838608	TXOI 0,6/1KV 1X 185/10mm2	7021528386080	1059014	124892NN	8711401019325
838609	TXOI 0,6/1KV 1X 240/10mm2	7021528386097	1059015	124893NN	8711401019332
838610	TXOI 0,6/1KV 1X 300/16mm2	7021528386103	1059016	-	-
838612	TXOI 0,6/1KV 27X 1,5/10mm2	7021528386127	1059109	-	-
838613	TXOI 0,6/1KV 37X 1,5/10mm2	7021528386134	1059110	-	-
838614	TXOI 0,6/1KV 48X 1,5/16mm2	7021528386141	-	-	-
838615	TXOI 0,6/1KV 2X 1,5/2,5mm2	7021528386158	1059020	124894NN	8711401019462
838616	TXOI 0,6/1KV 3G 1,5mm2	7021528386165	1059030	-	-
838618	TXOI 0,6/1KV 3X 1,5/2,5mm2	7021528386189	1059040	124900NN	8711401019509
838619	TXOI 0,6/1KV 4G 1,5mm2	7021528386196	1059060	-	-
838621	TXOI 0,6/1KV 4X 1,5/2,5mm2	7021528386219	1059070	124913NN	8711401019547
838622	TXOI 0,6/1KV 5G 1,5mm2	7021528386226	1059085	-	-
838624	TXOI 0,6/1KV 5X 1,5/2,5mm2	7021528386240	1059090	124920NN	8711401019585
838625	TXOI 0,6/1KV 7X 1,5/4mm2	7021528386257	1059100	124924NN	8711401019608
838626	TXOI 0,6/1KV 10X 1,5/6mm2	7021528386264	1059102	124926NN	8711401019615
838627	TXOI 0,6/1KV 12X 1,5/6mm2	7021528386271	1059103	124927NN	8711401019622
838628	TXOI 0,6/1KV 14X 1,5/6mm2	7021528386288	1059105	-	-
838629	TXOI 0,6/1KV 16X 1,5/6mm2	7021528386295	1059106	124928NN	8711401019639
838630	TXOI 0,6/1KV 19X 1,5/6mm2	7021528386301	1059107	124929NN	8711401019646
838631	TXOI 0,6/1KV 24X 1,5/10mm2	7021528386318	1059108	124930NN	8711401019653
838633	TXOI 0,6/1KV 2X 2,5/2,5mm2	7021528386332	1059021	124895NN	8711401019479
838634	TXOI 0,6/1KV 3G 2,5mm2	7021528386349	1059031	-	-
838636	TXOI 0,6/1KV 3X 2,5/2,5mm2	7021528386363	1059041	124901NN	8711401019516
838637	TXOI 0,6/1KV 4G 2,5mm2	7021528386370	1059061	-	-
838639	TXOI 0,6/1KV 4X 2,5/2,5mm2	7021528386394	1059071	124914NN	8711401019554
838641	TXOI 0,6/1KV 5G 2,5mm2	7021528386417	1059086	-	-
838642	TXOI 0,6/1KV 5X 2,5/4mm2	7021528386424	1059091	124921NN	8711401019592
838643	TXOI 0,6/1KV 7X 2,5/6mm2	7021528386431	1059101	-	-



Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838644	TXOI 0,6/1KV 12X 2,5/6mm2	7021528386448	1059104	-	-
838647	TXOI 0,6/1KV 19X 2,5/10mm2	7021528386479	-	-	-
838648	TXOI 0,6/1KV 27X 2,5/10mm2	7021528386486	-	-	-
838649	TXOI 0,6/1KV 37X 2,5/16mm2	7021528386493	-	-	-
838650	TXOI 0.6/1kv 2X 4/4mm²	7021528386509	1059022	124896NN	8711401019486
838651	TXOI 0.6/1kv 3X 4/4mm²	7021528386516	1059042	124902NN	8711401019523
838652	TXOI 0,6/1KV 4X 4/6mm2	7021528386523	1059072	124915NN	8711401019561
838653	TXOI 0,6/1KV 4G 4mm2	7021528386530	1059062	-	-
838656	TXOI 0,6/1KV 2X 6/6mm2	7021528386561	1059023	124897NN	8711401019493
838657	TXOI 0,6/1KV 3X 6/6mm2	7021528386578	1059043	124903NN	8711401019530
838658	TXOI 0,6/1KV 4X 6/6mm2	7021528386585	1059073	124916NN	8711401019578
838659	TXOI 0,6/1KV 4G 6mm2	7021528386592	1059063	-	-
838662	TXOI 0,6/1KV 2X 10/10mm2	7021528386622	1059024	124898NN	8711401019349
838663	TXOI 0.6/1kv 3X 10/10mm²	7021528386639	1059044	124904NN	8711401019363
838664	TXOI 0,6/1KV 4X 10/10mm2	7021528386646	1059074	124917NN	8711401019431
838668	TXOI 0,6/1KV 2X 16/16mm2	7021528386684	1059025	124899NN	8711401019356
838669	TXOI 0.6/1kv 3X 16/16mm²	7021528386691	1059045	124905NN	8711401019370
838670	TXOI 0,6/1KV 4X 16/16mm2	7021528386707	1059075	124918NN	8711401019448
838674	TXOI 0,6/1KV 2X 25/16mm2	7021528386745	1059026	-	-
838675	TXOI 0.6/1kv 3X 25/16mm²	7021528386752	1059046	124906NN	8711401019387
838676	TXOI 0,6/1KV 4X 25/16mm2	7021528386769	1059076	124919NN	8711401019455
838680	TXOI 0,6/1KV 2X 35/16mm2	7021528386806	1059027	-	-
838681	TXOI 0,6/1KV 3X 35/16mm2	7021528386813	1059047	124907NN	8711401019394
838682	TXOI 0,6/1KV 4X 35/16mm2	7021528386820	1059077	-	-
838687	TXOI 0,6/1KV 3X 50/25mm2	7021528386875	1059048	124908NN	8711401019400
838688	TXOI 0,6/1KV 4X 50/25mm2	7021528386882	-	-	-
838693	TXOI 0,6/1KV 3X 70/35mm2	7021528386936	1059049	124909NN	8711401019417
838694	TXOI 0,6/1KV 4X 70/35mm2	7021528386943	-	-	-
838700	TXOI 0,6/1KV 3X 95/50mm2	7021528387001	1059050	124910NN	8711401019424
838701	TXOI 0,6/1KV 4X 95/50mm2	7021528387018	-	-	-
838706	TXOI 0.6/1kv 3X 120/25mm²	7021528387063	1059051	-	-

Electrical values power cables

Number of elements	Cross section core, mm²	Cross section screen, mm²	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, Ampere	Short circuit rating 1 second, Ampere
1	16	2.5	SCC	1.15	1.466	0.100	0.120	90	2240
1	25	4	SCC	0.727	0.927	0.096	0.115	120	3500
1	35	4	SCC	0.524	0.668	0.091	0.109	145	4900
1	50	6	SCC	0.387	0.493	0.091	0.109	180	7000
1	70	6	SCC	0.268	0.342	0.088	0.105	225	9800
1	95	6	SCC	0.193	0.246	0.084	0.101	275	13300
1	120	10	SCC	0.153	0.195	0.084	0.101	320	16800
1	150	10	SCC	0.124	0.158	0.083	0.099	365	21000
1	185	10	SCC	0.0991	0.1264	0.083	0.100	415	25900
1	240	10	SCC	0.0754	0.0961	0.080	0.096	490	33600
1	300	16	SCC	0.0601	0.0766	0.082	0.098	560	42000
27	1.5	10	SCC	12.1	15.428	0.099	0.119	20	210
37	1.5	10	SCC	12.1	15.428	0.099	0.119	20	210
48	1.5	16	SCC	12.1	15.428	0.099	0.119	20	210
2	1.5	2.5	SCC	12.1	15.428	0.099	0.119	17	210
3G	1.5	-	SCC	12.1	15.428	0.099	0.119	17	210
3	1.5	2.5	SCC	12.1	15.428	0.099	0.119	14	210
4G	1.5	-	SCC	12.1	15.428	0.099	0.119	14	210
4	1.5	2.5	SCC	12.1	15.428	0.099	0.119	14	210



Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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, Ampere	Short circuit rating 1 second, Ampere
5G	1.5	-	SCC	12.1	15.428	0.099	0.119	14	210
5	1.5	2.5	SCC	12.1	15.428	0.099	0.119	20	210
7	1.5	4	SCC	12.1	15.428	0.099	0.119	20	210
10	1.5	6	SCC	12.1	15.428	0.099	0.119	20	210
12	1.5	6	SCC	12.1	15.428	0.099	0.119	20	210
14	1.5	6	SCC	12.1	15.428	0.099	0.119	20	210
16	1.5	6	SCC	12.1	15.428	0.099	0.119	20	210
19	1.5	6	SCC	12.1	15.428	0.099	0.119	20	210
24	1.5	10	SCC	12.1	15.428	0.099	0.119	20	210
2	2.5	2.5	SCC	7.41	9.448	0.093	0.111	24	350
3G	2.5	-	SCC	7.41	9.448	0.093	0.111	24	350
3	2.5	2.5	SCC	7.41	9.448	0.093	0.111	20	350
4G	2.5	-	SCC	7.41	9.448	0.093	0.111	20	350
4	2.5	2.5	SCC	7.41	9.448	0.093	0.111	20	350
5G	2.5	-	SCC	7.41	9.448	0.093	0.111	20	350
5	2.5	4	SCC	7.41	9.448	0.093	0.111	28	350
7	2.5	6	SCC	7.41	9.448	0.093	0.111	28	350
12	2.5	6	SCC	7.41	9.448	0.093	0.111	28	350
19	2.5	10	SCC	7.41	9.448	0.093	0.111	28	350
27	2.5	10	SCC	7.41	9.448	0.093	0.111	28	350
37	2.5	16	SCC	7.41	9.448	0.093	0.111	28	350
2	4	4	SCC	4.61	5.878	0.087	0.104	32	560
3	4	4	SCC	4.61	5.878	0.087	0.104	27	560
4	4	6	SCC	4.61	5.878	0.087	0.104	27	560
4G	4	-	SCC	4.61	5.878	0.087	0.104	27	560
2	6	6	SCC	3.08	3.927	0.082	0.099	41	840
3	6	6	SCC	3.08	3.927	0.082	0.099	34	840
4	6	6	SCC	3.08	3.927	0.082	0.099	34	840
4G	6	-	SCC	3.08	3.927	0.082	0.099	34	840
2	10	10	SCC	1.83	2.333	0.078	0.093	57	1400
3	10	10	SCC	1.83	2.333	0.078	0.093	47	1400
4	10	10	SCC	1.83	2.333	0.078	0.093	47	1400
2	16	16	SCC	1.15	1.466	0.074	0.089	77	2240
3	16	16	SCC	1.15	1.466	0.074	0.089	63	2240
4	16	16	SCC	1.15	1.466	0.074	0.089	63	2240
2	25	16	SCC	0.727	0.927	0.075	0.09	100	3500
3	25	16	SCC	0.727	0.927	0.075	0.09	84	3500
4	25	16	SCC	0.727	0.927	0.075	0.09	84	3500
2	35	16	SCC	0.524	0.668	0.073	0.087	125	4900
3	35	16	SCC	0.524	0.668	0.073	0.087	100	4900
4	35	16	SCC	0.524	0.668	0.073	0.087	100	4900
3	50	25	SSC	0.387	0.493	0.065	0.077	125	7000
4	50	25	SSC	0.387	0.493	0.065	0.077	125	7000
3	70	35	SSC	0.268	0.342	0.064	0.077	160	9800
4	70	35	SSC	0.268	0.342	0.064	0.077	160	9800
3	95	50	SSC	0.193	0.246	0.062	0.075	195	13300
4	95	50	SSC	0.193	0.246	0.062	0.075	195	13300
3	120	25	SSC	0.153	0.195	0.062	0.075	225	16800

Ambient temperature correction factors

Ambient Temp °C	25	30	35	40	45	50	55	60	65	70	75
Rating factor	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50



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	-10°C