



**Flame retardant halogen-free power cable.
Unbraided**

TI 0,6/1kV

XLPE/PO

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

Application

Unarmoured cable for fixed installation in ships where cable protection is not 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		No inner covering. (Additional tapes may be applied)
Armour/screen		No armour.
Outer sheath	I	Flame retardant halogen-free thermoplastic compound, SHF1
Marking text		E.g. "meter" "year" DRAKA 01 TI 1kV 3 x 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	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)
1	10	4.05	0.7	1	7.5 ± 0.5	195	91
1	16	5.15	0.7	1.1	9 ± 0.5	205	145
1	25	6.4	0.9	1.1	10.5 ± 0.8	300	230
1	35	7.6	0.9	1.2	12 ± 0.8	410	315
1	50	9.5	1.0	1.2	14 ± 0.8	620	498
1	70	10.7	1.1	1.3	15.5 ± 0.8	800	618
1	95	12.6	1.1	1.4	17.5 ± 0.8	1050	857
1	120	14.6	1.2	1.4	20 ± 1	1360	1149
1	150	15.9	1.4	1.5	22 ± 1	1650	1376
1	185	18.3	1.6	1.6	25 ± 1	2120	1812
1	240	19.8	1.7	1.7	26.5 ± 1	2610	2129
1	300	23.9	1.8	1.8	31 ± 1.5	3530	3091
27	1.5	1.6	0.7	1.5	21.5 ± 1	650	376
37	1.5	1.6	0.7	1.6	24.5 ± 1	870	518
2	1.5	1.6	0.7	1.1	8.5 ± 0.5	80	28
3G	1.5	1.6	0.7	1.1	8.5 ± 0.5	100	42
3	1.5	1.6	0.7	1.1	9 ± 0.5	100	42
4G	1.5	1.6	0.7	1.1	9.5 ± 0.5	125	56
4	1.5	1.6	0.7	1.1	9.5 ± 0.5	125	56
5G	1.5	1.6	0.7	1.1	10.5 ± 0.8	155	70
5	1.5	1.6	0.7	1.1	10.5 ± 0.8	155	70
7	1.5	1.6	0.7	1.2	11.5 ± 0.8	195	98
10	1.5	1.6	0.7	1.3	14.5 ± 0.8	275	140
12	1.5	1.6	0.7	1.3	15 ± 0.8	320	168
14	1.5	1.6	0.7	1.3	16 ± 0.8	360	195
16	1.5	1.6	0.7	1.4	17 ± 0.8	420	223
19	1.5	1.6	0.7	1.4	18 ± 0.8	470	265
24	1.5	1.6	0.7	1.5	21 ± 1	600	335
2	2.5	2.0	0.7	1.1	9 ± 0.5	105	46
3G	2.5	2.0	0.7	1.1	9.5 ± 0.5	135	69
3	2.5	2.0	0.7	1.1	9.5 ± 0.5	135	69
4G	2.5	2.0	0.7	1.1	10.5 ± 0.8	170	92
4	2.5	2.0	0.7	1.1	10.5 ± 0.8	170	92
5G	2.5	2.0	0.7	1.2	11.5 ± 0.8	220	115
5	2.5	2.0	0.7	1.2	11.5 ± 0.8	220	127
7	2.5	2.0	0.7	1.2	13 ± 0.8	275	161
12	2.5	2.0	0.7	1.4	17 ± 0.8	460	276
2	4	2.55	0.7	1.1	10 ± 0.8	140	74
3	4	2.55	0.7	1.2	11 ± 0.8	195	111
4	4	2.55	0.7	1.2	12 ± 0.8	245	147
4G	4	2.55	0.7	1.2	12 ± 0.8	245	147
3G	4	2.55	0.7	1.2	11 ± 0.8	195	111
2	6	3.15	0.7	1.2	11.5 ± 0.8	195	114
3	6	3.15	0.7	1.2	12.5 ± 0.8	260	171
4	6	3.15	0.7	1.2	13.5 ± 0.8	330	227
4G	6	3.15	0.7	1.2	13.5 ± 0.8	330	227
3G	6	3.15	0.7	1.2	12.5 ± 0.8	230	171
2	10	4.05	0.7	1.2	13.5 ± 0.8	280	182
3	10	4.05	0.7	1.3	14.5 ± 0.8	390	272
4	10	4.05	0.7	1.3	16 ± 0.8	510	363
4G	10	4.05	0.7	1.3	16 ± 0.8	510	363
2	16	5.15	0.7	1.3	16 ± 0.8	420	291
3	16	5.15	0.7	1.3	17 ± 0.8	590	437
4	16	5.15	0.7	1.4	19 ± 0.8	770	582



Number of elements	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)
4G	16	5.15	0.7	1.4	19 ± 0.8	780	582
2	25	6.4	0.9	1.4	19.5 ± 0.8	630	461
3	25	6.4	0.9	1.5	21 ± 1	890	692
4	25	6.4	0.9	1.5	23 ± 1	1160	922
2	35	7.6	0.9	1.5	22 ± 1	840	632
3	35	7.6	0.9	1.6	23.5 ± 1	1200	949
4	35	7.6	0.9	1.7	26 ± 1	1570	1264
3	50	-	1.0	1.7	24 ± 1	1540	1243
4	50	-	1.0	1.8	27 ± 1	2080	1657
4G	50	-	1.0	1.8	27 ± 1	2080	1657
3	70	-	1.1	1.8	27.5 ± 1	2170	1794
4	70	-	1.1	2	32 ± 1.5	2970	2392
5G	70	10.7	1.1	2.1	39.5 ± 1.5	3950	3095
3	95	-	1.1	2	32.5 ± 1.5	2980	2482
4	95	-	1.1	2.1	36 ± 1.5	3970	3310
3	120	-	1.2	2.1	34.5 ± 1.5	3690	3099
4	120	-	1.2	2.3	39 ± 1.5	4890	4132
3	150	-	1.4	2.3	39.5 ± 1.5	4680	3878
3	240	-	1.7	2.7	48 ± 2	7590	6378
3	300	-	1.8	2.8	52 ± 2.5	9650	8304

Ordering information

Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838798	TI 0,6/1KV 1X 10mm ²	7021528387988	-	124831NN	8711401021199
838800	TI 0.6/1kv 1X 16mm ²	7021528388008	1059406	124832NN	8711401018861
838801	TI 0.6/1kv 1X 25mm ²	7021528388015	1059407	124833NN	8711401018878
838802	TI 0,6/1KV 1X 35mm ²	7021528388022	1059408	124834NN	8711401018885
838803	TI 0,6/1KV 1X 50mm ²	7021528388039	1059409	124835NN	8711401018892
838804	TI 0,6/1KV 1X 70mm ²	7021528388046	1059410	124836NN	8711401018922
838805	TI 0,6/1KV 1X 95mm ²	7021528388053	1059411	124837NN	8711401018939
838806	TI 0,6/1KV 1X120mm ²	7021528388060	1059412	124838NN	8711401018946
838807	TI 0,6/1KV 1X150mm ²	7021528388077	1059413	125521NN	8711401025869
838808	TI 0,6/1KV 1X185mm ²	7021528388084	1059414	124839NN	8711401018960
838809	TI 0,6/1KV 1X240mm ²	7021528388091	1059415	124840NN	8711401018977
838810	TI 0,6/1KV 1X300mm ²	7021528388107	1059416	-	-
838812	TI 0,6/1KV 27X 1,5mm ²	7021528388121	1059509	-	-
838813	TI 0,6/1KV 37X 1,5mm ²	7021528388138	1059510	-	-
838815	TI 0.6/1kv 2X 1.5mm ²	7021528388152	1059420	124841NN	8711401018533
838816	TI 0,6/1KV 3G 1,5mm ²	7021528388169	1059430	124850NN	8711401018595
838818	TI 0.6/1kv 3X 1.5mm ²	7021528388183	1059440	124849NN	8711401018588
838819	TI 0,6/1KV 4G 1,5mm ²	7021528388190	1059460	124864NN	8711401018663
838821	TI 0.6/1kv 4X 1.5mm ²	7021528388213	1059470	124863NN	8711401018656
838822	TI 0.6/1kv 5G 1.5mm ²	7021528388220	1059485	124871NN	8711401018755
838824	TI 0.6/1kv 5X 1.5mm ²	7021528388244	1059490	124870NN	8711401018748
838825	TI 0.6/1kv 7X 1.5mm ²	7021528388251	1059500	124876NN	8711401018786
838826	TI 0,6/1KV 10X 1,5mm ²	7021528388268	1059502	124878NN	8711401018793
838827	TI 0,6/1KV 12X 1,5mm ²	7021528388275	1059503	124879NN	8711401018823
838828	TI 0,6/1KV 14X 1,5mm ²	7021528388282	1059505	-	-
838829	TI 0,6/1KV 16X 1,5mm ²	7021528388299	1059506	124880NN	8711401018830
838830	TI 0,6/1KV 19X 1,5mm ²	7021528388305	1059507	124881NN	8711401018847
838831	TI 0.6/1kv 24X 1.5mm ²	7021528388312	1059508	124882NN	8711401023940
838833	TI 0.6/1kv 2X 2.5mm ²	7021528388336	1059421	124842NN	8711401018540
838834	TI 0.6/1kv 3G 2.5mm ²	7021528388343	1059431	125526NN	8711401026347
838836	TI 0.6/1kv 3X 2.5mm ²	7021528388367	1059441	124851NN	8711401018625

Part number	Description	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838837	TI 0,6/1kV 4G 2.5mm ²	7021528388374	1059461	-	-
838839	TI 0,6/1kV 4X 2.5mm ²	7021528388398	1059471	124865NN	8711401018670
838841	TI 0,6/1KV 5G 2,5mm ²	7021528388411	-	124873NN	8711401018779
838842	TI 0,6/1KV 5X 2,5mm ²	7021528388428	1059491	124872NN	8711401018762
838843	TI 0,6/1kV 7X 2.5mm ²	7021528388435	1059501	-	-
838844	TI 0,6/1KV 12X 2,5mm ²	7021528388442	1059504	-	-
838850	TI 0,6/1KV 2X 4mm ²	7021528388503	1059422	124843NN	8711401018458
838851	TI 0,6/1KV 3X 4mm ²	7021528388510	1059442	124852NN	8711401018632
838852	TI 0,6/1kV 4X 4mm ²	7021528388527	1059472	124866NN	8711401018687
838853	TI 0,6/1kV 4G 4mm ²	7021528388534	1059462	-	-
838854	TI 0,6/1kV 3G 4mm ²	7021528388541	-	-	-
838856	TI 0,6/1kV 2X 6mm ²	7021528388565	1059423	124844NN	8711401018557
838857	TI 0,6/1KV 3X 6mm ²	7021528388572	1059443	124853NN	8711401018649
838858	TI 0,6/1kV 4X 6mm ²	7021528388589	1059473	124867NN	8711401018694
838859	TI 0,6/1kV 4G 6mm ²	7021528388596	1059463	-	-
838860	TI 0,6/1kV 3G 6mm ²	7021528388602	-	-	-
838862	TI 0,6/1KV 2X 10mm ²	7021528388626	1059424	124845NN	8711401018564
838863	TI 0,6/1KV 3X 10mm ²	7021528388633	1059444	124854NN	8711401018984
838864	TI 0,6/1kV 4X 10mm ²	7021528388640	1059474	124868NN	8711401018724
838865	TI 0,6/1KV 4G 10mm ²	7021528388657	-	-	-
838868	TI 0,6/1KV 2X 16mm ²	7021528388688	1059425	124846NN	8711401018571
838869	TI 0,6/1KV 3X 16mm ²	7021528388695	1059445	124855NN	8711401018991
838870	TI 0,6/1kV 4X 16mm ²	7021528388701	1059475	124869NN	8711401018731
838871	TI 0,6/1KV 4G 16mm ²	7021528388718	-	-	-
838874	TI 0,6/1KV 2X 25mm ²	7021528388749	1059426	-	-
838875	TI 0,6/1KV 3X 25mm ²	7021528388756	1059446	-	8711401019028
838876	TI 0,6/1kV 4X 25mm ²	7021528388763	1059476	-	-
838880	TI 0,6/1KV 2X 35mm ²	7021528388800	1059427	-	-
838881	TI 0,6/1KV 3X 35mm ²	7021528388817	1059447	124857NN	8711401019035
838882	TI 0,6/1kV 4X 35mm ²	7021528388824	1059477	-	-
838887	TI 0,6/1KV 3X 50mm ²	7021528388879	1059448	124858NN	8711401019059
838888	TI 0,6/1KV 4X 50mm ²	7021528388886	-	-	-
838889	TI 0,6/1KV 4G 50mm ²	7021528388893	-	-	-
838893	TI 0,6/1KV 3X 70mm ²	7021528388930	1059449	124859NN	8711401019066
838894	TI 0,6/1KV 4X 70mm ²	7021528388947	-	-	-
838896	TI 0,6/1KV 5G 70mm ²	7021528388961	-	-	-
838900	TI 0,6/1KV 3X 95mm ²	7021528389005	1059450	124860NN	8711401019073
838901	TI 0,6/1KV 4X 95mm ²	7021528389012	-	-	-
838906	TI 0,6/1KV 3X 120mm ²	7021528389067	1059451	124861NN	8711401019080
838907	TI 0,6/1KV 4X 120mm ²	7021528389074	-	-	-
838909	TI 0,6/1KV 3X 150mm ²	7021528389098	1059452	-	-
838913	TI 0,6/1kV 3X 240mm ²	7021528389135	-	-	-
838915	TI 0,6/1kV 3X 300mm ²	7021528389159	-	-	-

Electrical values power cables

Number of elements	Cross section core, 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
1	10	SCC	1.83	2.333	0.099	0.119	67	1400
1	16	SCC	1.15	1.466	0.094	0.112	90	2240
1	25	SCC	0.727	0.927	0.090	0.108	120	3500
1	35	SCC	0.524	0.668	0.086	0.104	145	4900
1	50	SCC	0.387	0.493	0.089	0.107	180	7000
1	70	SCC	0.268	0.342	0.083	0.099	225	9800
1	95	SCC	0.193	0.246	0.081	0.097	275	13300
1	120	SCC	0.153	0.195	0.080	0.097	320	16800



Number of elements	Cross section core, 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
1	150	SCC	0.124	0.158	0.079	0.095	365	21000
1	185	SCC	0.0991	0.1264	0.080	0.097	415	25900
1	240	SCC	0.0754	0.0961	0.078	0.093	490	33600
1	300	SCC	0.0601	0.0766	0.080	0.095	560	42000
27	1.5	SCC	12.1	15.428	0.099	0.119	20	210
37	1.5	SCC	12.1	15.428	0.099	0.119	20	210
2	1.5	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	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	SCC	12.1	15.428	0.099	0.119	14	210
5G	1.5	SCC	12.1	15.428	0.099	0.119	14	210
5	1.5	SCC	12.1	15.428	0.099	0.119	20	210
7	1.5	SCC	12.1	15.428	0.099	0.119	20	210
10	1.5	SCC	12.1	15.428	0.099	0.119	20	210
12	1.5	SCC	12.1	15.428	0.099	0.119	20	210
14	1.5	SCC	12.1	15.428	0.099	0.119	20	210
16	1.5	SCC	12.1	15.428	0.099	0.119	20	210
19	1.5	SCC	12.1	15.428	0.099	0.119	20	210
24	1.5	SCC	12.1	15.428	0.099	0.119	20	210
2	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	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	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	SCC	7.41	9.448	0.093	0.111	28	350
7	2.5	SCC	7.41	9.448	0.093	0.111	28	350
12	2.5	SCC	7.41	9.448	0.093	0.111	28	350
2	4	SCC	4.61	5.878	0.087	0.104	32	560
3	4	SCC	4.61	5.878	0.087	0.104	27	560
4	4	SCC	4.61	5.878	0.087	0.104	27	560
4G	4	SCC	4.61	5.878	0.087	0.104	27	560
3G	4	SCC	4.61	5.878	0.087	0.104	32	560
2	6	SCC	3.08	3.927	0.082	0.099	41	840
3	6	SCC	3.08	3.927	0.082	0.099	34	840
4	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
3G	6	SCC	3.08	3.927	0.082	0.099	41	840
2	10	SCC	1.83	2.333	0.078	0.093	57	1400
3	10	SCC	1.83	2.333	0.078	0.093	47	1400
4	10	SCC	1.83	2.333	0.078	0.093	47	1400
4G	10	SCC	1.83	2.333	0.078	0.093	47	1400
2	16	SCC	1.15	1.466	0.074	0.089	77	2240
3	16	SCC	1.15	1.466	0.074	0.089	63	2240
4	16	SCC	1.15	1.466	0.074	0.089	63	2240
4G	16	SCC	1.15	1.466	0.074	0.089	63	2240
2	25	SCC	0.727	0.927	0.075	0.09	100	3500
3	25	SCC	0.727	0.927	0.075	0.09	84	3500
4	25	SCC	0.727	0.927	0.075	0.09	84	3500
2	35	SCC	0.524	0.668	0.073	0.087	125	4900
3	35	SCC	0.524	0.668	0.073	0.087	100	4900
4	35	SCC	0.524	0.668	0.073	0.087	100	4900
3	50	SSC	0.387	0.493	0.065	0.077	125	7000



Number of elements	Cross section core, 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
4	50	SSC	0.387	0.493	0.065	0.077	125	7000
4G	50	SSC	0.387	0.493	0.065	0.077	125	7000
3	70	SSC	0.268	0.342	0.064	0.077	160	9800
4	70	SSC	0.268	0.342	0.064	0.077	160	9800
5G	70	SSC	0.268	0.342	0.071	0.085	160	9800
3	95	SSC	0.193	0.246	0.062	0.075	195	13300
4	95	SSC	0.193	0.246	0.062	0.075	195	13300
3	120	SSC	0.153	0.195	0.062	0.075	225	16800
4	120	SSC	0.153	0.195	0.062	0.075	225	16800
3	150	SSC	0.124	0.158	0.062	0.075	255	21000
3	240	SSC	0.0754	0.0961	0.062	0.075	345	33600
3	300	SSC	0.0601	0.0766	0.062	0.074	390	42000

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