

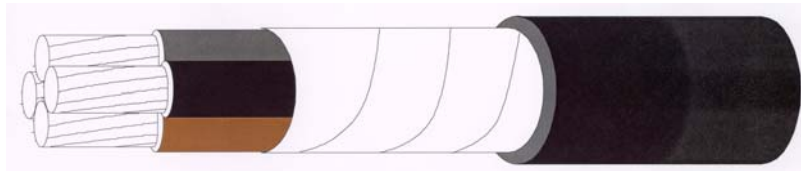


## Shipline TI 0,6/1kV Power cable

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	
<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>T</b>	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>I</b>	Flame retardant halogen-free thermoplastic compound, SHF1
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 TI 1kV 3 x 10 mm <sup>2</sup> 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>		Black



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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
G / X in cable description	G = One of the cores are yellow/green - X = no yellow/green core

### Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	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	4.95	0.7	1.1	8.5 ± 0.5	190	137
1	25	6.25	0.9	1.1	10.5 ± 0.8	295	218
1	35	7.5	0.9	1.2	11.5 ± 0.8	380	301
1	50	8.75	1.0	1.2	13.5 ± 0.8	510	406
1	70	10.55	1.1	1.3	15.5 ± 0.8	720	588
1	95	12.45	1.1	1.4	17.5 ± 0.8	970	820
1	120	14.0	1.2	1.4	19.5 ± 0.8	1220	1041
1	150	15.5	1.4	1.5	21.5 ± 1	1510	1283
1	185	17.35	1.6	1.6	24 ± 1	1870	1607
1	240	19.9	1.7	1.7	26.5 ± 1.0	2420	2109
27	1.5	1.6	0.7	1.5	21.5 ± 1	650	376
2	1.5	1.6	0.7	1.1	8.5 ± 0.5	80	27
3G	1.5	1.6	0.7	1.1	9 ± 0.5	105	40
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	53
4	1.5	1.6	0.7	1.1	9.5 ± 0.5	125	53
5G	1.5	1.6	0.7	1.1	10.5 ± 0.8	155	67
5	1.5	1.6	0.7	1.1	10.5 ± 0.8	150	67
7	1.5	1.6	0.7	1.2	11.5 ± 0.8	195	94
12	1.5	1.6	0.7	1.3	15.5 ± 0.8	320	161
19	1.5	1.6	0.7	1.4	18 ± 0.8	470	265
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	140	65
3	2.5	2.0	0.7	1.1	10.0 ± 0.5	135	69
4G	2.5	2.0	0.7	1.1	10.5 ± 0.8	165	86
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	215	115
5	2.5	2.0	0.7	1.2	11.5 ± 0.8	215	115
2	4	2.55	0.7	1.1	10.5 ± 0.8	135	70
3	4	2.55	0.7	1.2	11 ± 0.8	190	105
4	4	2.55	0.7	1.2	12 ± 0.8	245	147
4G	4	2.55	0.7	1.2	12 ± 0.8	240	139
3G	4	2.55	0.7	1.2	11 ± 0.8	190	111
2	6	3.1	0.7	1.2	11.5 ± 0.8	185	103
3	6	3.1	0.7	1.2	12.5 ± 0.8	250	154



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Number of elements	Cross section core, mm <sup>2</sup>	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)
4	6	3.15	0.7	1.2	13.5 ± 0.8	340	227
4G	6	3.1	0.7	1.2	13.5 ± 0.8	320	205
3G	6	3.1	0.7	1.2	12.5 ± 0.8	250	154
3	10	3.9	0.7	1.3	14.5 ± 0.8	390	261
4	10	4.05	0.7	1.3	16 ± 0.8	510	363
4G	10	3.9	0.7	1.3	15.5 ± 0.8	500	348
3	16	4.95	0.7	1.3	16.5 ± 0.8	560	411
4	16	5.15	0.7	1.4	19 ± 0.8	770	582
4G	16	4.95	0.7	1.4	18.5 ± 0.8	740	549
3	25	6.25	0.9	1.5	20.5 ± 1	880	656
3	35	7.5	0.9	1.6	23.5 ± 1	1220	906
3	50	-	1.0	1.7	23 ± 1	1540	1243
3	70	-	1.1	1.8	27.5 ± 1	2160	1794
3	95	-	1.1	2	30.0 ± 1.5	2900	2471
3	120	-	1.2	2.1	34.5 ± 1.5	3610	3099

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838798	TI 0,6/1KV 1X 10mm2	BLACK	-	7021528387988	-	124831NN	8711401021199
838800	TI 0.6/1kv 1X 16mm <sup>2</sup>	BLACK	Yes	7021528388008	1059406	124832KK	8711401088925
838801	TI 0.6/1kv 1X 25mm <sup>2</sup>	BLACK	Yes	7021528388015	1059407	124833KK	8711401093103
838802	TI 0,6/1KV 1X 35mm2	BLACK	Yes	7021528388022	1059408	124834KK	8711401089113
838803	TI 0,6/1KV 1X 50mm2	BLACK	Yes	7021528388039	1059409	124835KK	8711401093097
838804	TI 0,6/1KV 1X 70mm2	BLACK	Yes	7021528388046	1059410	124836KK	8711401089137
838805	TI 0,6/1KV 1X 95mm2	BLACK	Yes	7021528388053	1059411	124837KK	8711401089144
838806	TI 0,6/1KV 1X120mm2	BLACK	Yes	7021528388060	1059412	124838KK	8711401093110
838807	TI 0,6/1KV 1X150mm2	BLACK	Yes	7021528388077	1059413	125521KK	8711401089724
838808	TI 0,6/1KV 1X185mm2	BLACK	Yes	7021528388084	1059414	124839KK	8711401093127
838809	TI 0,6/1KV 1X240mm2	BLACK	Yes	7021528388091	1059415	124840KK	8711401093134
838812	TI 0,6/1KV 27X 1,5mm2	BLACK	-	7021528388121	1059509	-	-
838815	TI 0.6/1kv 2X 1.5mm <sup>2</sup>	BLACK	Yes	7021528388152	1059420	124841KK	8711401093141
838816	TI 0.6/1kv 3G 1.5mm <sup>2</sup>	BLACK	Yes	7021528388169	1059430	124850KK	8711401093233
838818	TI 0.6/1kv 3X 1.5mm <sup>2</sup>	BLACK	Yes	7021528388183	1059440	124849KK	8711401093226
838819	TI 0,6/1KV 4G 1,5mm2	BLACK	Yes	7021528388190	1059460	124864KK	8711401089168
838821	TI 0.6/1kv 4X 1.5mm <sup>2</sup>	BLACK	Yes	7021528388213	1059470	124863KK	8711401093356
838822	TI 0.6/1kv 5G 1.5mm <sup>2</sup>	BLACK	Yes	7021528388220	1059485	124871KK	8711401089731
838824	TI 0.6/1kv 5X 1.5mm <sup>2</sup>	BLACK	Yes	7021528388244	1059490	124870KK	8711401093448
838825	TI 0.6/1kv 7X 1.5mm <sup>2</sup>	BLACK	Yes	7021528388251	1059500	124876KK	8711401093523
838827	TI 0,6/1KV 12X 1,5mm2	BLACK	Yes	7021528388275	1059503	124879KK	8711401093578
838830	TI 0,6/1KV 19X 1,5mm2	BLACK	Yes	7021528388305	1059507	124881KK	8711401093615
838833	TI 0.6/1kv 2X 2.5mm <sup>2</sup>	BLACK	Yes	7021528388336	1059421	124842NN	8711401018540
838834	TI 0.6/1kv 3G 2.5mm <sup>2</sup>	BLACK	Yes	7021528388343	1059431	125526KK	8711401089175
838836	TI 0.6/1kv 3X 2.5mm <sup>2</sup>	BLACK	Yes	7021528388367	1059441	124851KK	8711401093240
838837	TI 0.6/1kv 4G 2.5mm <sup>2</sup>	BLACK	Yes	7021528388374	1059461	127212KK	8711401093660
838839	TI 0.6/1kv 4X 2.5mm <sup>2</sup>	BLACK	Yes	7021528388398	1059471	124865KK	8711401093370
838841	TI 0.6/1kv 5G 2.5mm <sup>2</sup>	BLACK	-	7021528388411	-	124873KK	8711401093509
838842	TI 0,6/1KV 5X 2,5mm2	BLACK	-	7021528388428	1059491	124872NN	8711401018762
838850	TI 0.6/1kv 2X 4mm <sup>2</sup>	BLACK	-	7021528388503	1059422	124843KK	8711401093172
838851	TI 0,6/1KV 3X 4mm2	BLACK	Yes	7021528388510	1059442	124852KK	8711401089748



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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838852	TI 0.6/1kV 4X 4mm <sup>2</sup>	BLACK	-	7021528388527	1059472	124866NN	8711401018687
838853	TI 0.6/1kV 4G 4mm <sup>2</sup>	BLACK	Yes	7021528388534	1059462	127214KK	8711401089182
838854	TI 0.6/1kV 3G 4mm <sup>2</sup>	BLACK	Yes	7021528388541	-	-	-
838856	TI 0.6/1kV 2X 6mm <sup>2</sup>	BLACK	-	7021528388565	1059423	124844KK	8711401093189
838857	TI 0,6/1KV 3X 6mm <sup>2</sup>	BLACK	Yes	7021528388572	1059443	124853KK	8711401093257
838858	TI 0.6/1kV 4X 6mm <sup>2</sup>	BLACK	Yes	7021528388589	1059473	124867NN	8711401018694
838859	TI 0.6/1kV 4G 6mm <sup>2</sup>	BLACK	Yes	7021528388596	1059463	127216KK	8711401089199
838860	TI 0.6/1kV 3G 6mm <sup>2</sup>	BLACK	-	7021528388602	-	127215KK	8711401093684
838863	TI 0,6/1KV 3X 10mm <sup>2</sup>	BLACK	Yes	7021528388633	1059444	124854KK	8711401093264
838864	TI 0.6/1kV 4X 10mm <sup>2</sup>	BLACK	-	7021528388640	1059474	124868NN	8711401018724
838865	TI 0.6/1kV 4G 10mm <sup>2</sup>	BLACK	-	7021528388657	-	127345KK	8711401093714
838869	TI 0,6/1KV 3X 16mm <sup>2</sup>	BLACK	Yes	7021528388695	1059445	124855KK	8711401093271
838870	TI 0.6/1kV 4X 16mm <sup>2</sup>	BLACK	-	7021528388701	1059475	124869NN	8711401018731
838871	TI 0.6/1kV 4G 16mm <sup>2</sup>	BLACK	-	7021528388718	-	127416KK	8711401100283
838875	TI 0,6/1KV 3X 25mm <sup>2</sup>	BLACK	Yes	7021528388756	1059446	124856KK	8711401093288
838881	TI 0,6/1KV 3X 35mm <sup>2</sup>	BLACK	Yes	7021528388817	1059447	124857KK	8711401093295
838887	TI 0,6/1KV 3X 50mm <sup>2</sup>	BLACK	Yes	7021528388879	1059448	124858KK	8711401093318
838893	TI 0,6/1KV 3X 70mm <sup>2</sup>	BLACK	Yes	7021528388930	1059449	124859KK	8711401093325
838900	TI 0,6/1KV 3X 95mm <sup>2</sup>	BLACK	Yes	7021528389005	1059450	124860KK	8711401093332
838906	TI 0.6/1kV 3X 120mm <sup>2</sup>	BLACK	-	7021528389067	1059451	124861NN	8711401019080

### Electrical values power cables

Number of elements	Cross section core, 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	10	SCC	1.83	2.333	0.099	0.119	72	1400
1	16	SCC	1.15	1.466	0.098	0.118	96	2240
1	25	SCC	0.727	0.927	0.096	0.115	127	3500
1	35	SCC	0.524	0.668	0.091	0.110	157	4900
1	50	SCC	0.387	0.493	0.087	0.105	196	7000
1	70	SCC	0.268	0.342	0.085	0.102	242	9800
1	95	SCC	0.193	0.246	0.082	0.098	293	13300
1	120	SCC	0.153	0.195	0.081	0.097	339	16800
1	150	SCC	0.124	0.158	0.081	0.097	389	21000
1	185	SCC	0.0991	0.1264	0.080	0.096	444	25900
1	240	SCC	0.0754	0.0961	0.079	0.094	522	33600
27	1.5	SCC	12.1	15.428	0.099	0.119	7.5	210
2	1.5	SCC	12.1	15.428	0.104	0.125	20	210
3G	1.5	SCC	12.1	15.428	0.104	0.125	20	210
3	1.5	SCC	12.1	15.428	0.104	0.125	16	210
4G	1.5	SCC	12.1	15.428	0.112	0.134	16	210
4	1.5	SCC	12.1	15.428	0.112	0.134	16	210
5G	1.5	SCC	12.1	15.428	0.114	0.137	16	210
5	1.5	SCC	12.1	15.428	0.114	0.137	13.5	210
7	1.5	SCC	12.1	15.428	0.104	0.125	12	210
12	1.5	SCC	12.1	15.428	0.104	0.125	10	210
19	1.5	SCC	12.1	15.428	0.104	0.125	8.5	210
2	2.5	SCC	7.41	9.448	0.093	0.111	26	350
3G	2.5	SCC	7.41	9.448	0.098	0.118	26	350
3	2.5	SCC	7.41	9.448	0.098	0.118	21	350
4G	2.5	SCC	7.41	9.448	0.105	0.126	21	350



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Number of elements	Cross section core, 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
4	2.5	SCC	7.41	9.448	0.105	0.126	21	350
5G	2.5	SCC	7.41	9.448	0.108	0.130	21	350
5	2.5	SCC	7.41	9.448	0.093	0.111	17.5	350
2	4	SCC	4.61	5.878	0.092	0.110	34	560
3	4	SCC	4.61	5.878	0.092	0.110	28	560
4	4	SCC	4.61	5.878	0.087	0.104	28	560
4G	4	SCC	4.61	5.878	0.099	0.119	28	560
3G	4	SCC	4.61	5.878	0.087	0.104	34	560
2	6	SCC	3.08	3.927	0.088	0.106	44	840
3	6	SCC	3.08	3.927	0.088	0.106	36	840
4	6	SCC	3.08	3.927	0.082	0.099	36	840
4G	6	SCC	3.08	3.927	0.095	0.114	36	840
3G	6	SCC	3.08	3.927	0.088	0.106	44	840
3	10	SCC	1.83	2.333	0.084	0.100	50	1400
4	10	SCC	1.83	2.333	0.078	0.093	50	1400
4G	10	SCC	1.83	2.333	0.091	0.109	50	1400
3	16	SCC	1.15	1.466	0.080	0.096	67	2240
4	16	SCC	1.15	1.466	0.074	0.089	67	2240
4G	16	SCC	1.15	1.466	0.087	0.105	67	2240
3	25	SCC	0.727	0.927	0.080	0.097	89	3500
3	35	SCC	0.524	0.668	0.078	0.093	110	4900
3	50	SSC	0.387	0.493	0.071	0.085	137	7000
3	70	SSC	0.268	0.342	0.064	0.077	169	9800
3	95	SSC	0.193	0.246	0.069	0.083	205	13300
3	120	SSC	0.153	0.195	0.062	0.075	237	16800

### 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