

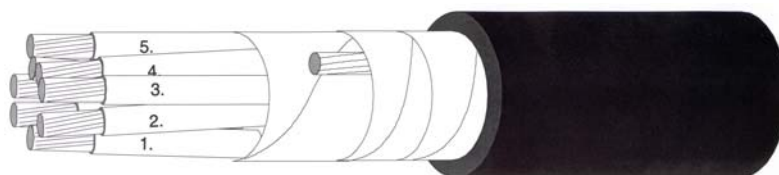


Shipline TI(c) 1000V Shielded power cable

Flame retardant halogen-free power and control cable. Unbraided, but shielded.

TI (c) 1000V

XLPE/PO



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

Application

Unarmoured shielded cable for fixed installation in ships where cable protection is not required. Control cables and small power cables. 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 circular copper, IEC 60228 class 2
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Lay up / Shielding		Cores are laid up in concentric layers and wrapped with a PETP tape. Overall shielded by copper backed polyester tape with tinned copper drain wire, 1,5 mm ² conductor area.
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 NORSK KABEL TI(c) 1000V 3 x 1,5 mm ² IEC 60332-3-22 ShipLine
Outer sheath colour		Black



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Core identification power cables

Control cables, 1,5 mm² and 2,5 mm² White cores, numbered with black numbers

Power cables:

Two cores + earth (3G)

Yellow/green - Blue - Brown

Three cores

Brown - Black - Grey

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)
2	1.5	1.6	0.7	1.1	8.5 ± 0.5	100	41
3	1.5	1.6	0.7	1.1	9 ± 0.5	120	55
4	1.5	1.6	0.7	1.1	10 ± 0.8	145	68
5	1.5	1.6	0.7	1.1	11 ± 0.8	170	82
7	1.5	1.6	0.7	1.2	12 ± 0.8	220	110
12	1.5	1.6	0.7	1.3	15.5 ± 0.8	340	180
19	1.5	1.6	0.7	1.4	18.5 ± 0.8	500	277
37	1.5	1.6	0.7	1.6	24.5 ± 1	910	530
2	2.5	2.0	0.7	1.1	9.5 ± 0.5	130	59
3	2.5	2.0	0.7	1.1	10 ± 0.8	160	82

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838150	TI(C) 1000V 2X 1.5mm2	BLACK	Yes	7021528381504	1059600	127228KK	8711401094650
838152	TI(C) 1000V 3X 1.5mm2	BLACK	Yes	7021528381528	1059601	127341KK	8711401094926
838154	TI(C) 1000V 4X 1.5mm2	BLACK	Yes	7021528381542	1059602	127387KK	8711401099044
838156	TI(C) 1000V 5X 1.5mm2	BLACK	Yes	7021528381566	1059603	127388KK	8711401099136
838157	TI(C) 1000V 7X 1.5mm2	BLACK	Yes	7021528381573	1059605	127291KK	8711401094667
838159	TI(C) 1000V 12X 1.5mm2	BLACK	Yes	7021528381597	1059607	127292KK	8711401099785
838162	TI(C) 1000V 19X 1.5mm2	BLACK	Yes	7021528381627	1059610	127389KK	8711401099747
838165	TI(C) 1000V 37X 1.5mm2	BLACK	-	7021528381658	1059615	-	-
838170	TI(C) 1000V 2X 2.5mm2	BLACK	Yes	7021528381702	1059650	127293KK	8711401094742
838172	TI(C) 1000V 3X 2.5mm2	BLACK	Yes	7021528381726	1059651	127391KK	8711401099617

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 Table B.4, Ampere	Short circuit rating 1 second, Ampere
2	1.5	SCC	12.1	15.428	0.099	0.119	20	210
3	1.5	SCC	12.1	15.428	0.099	0.119	16	210
4	1.5	SCC	12.1	15.428	0.099	0.119	16	210
5	1.5	SCC	12.1	15.428	0.099	0.119	13.5	210
7	1.5	SCC	12.1	15.428	0.099	0.119	12	210
12	1.5	SCC	12.1	15.428	0.099	0.119	10	210
19	1.5	SCC	12.1	15.428	0.099	0.119	8.5	210
37	1.5	SCC	12.1	15.428	0.099	0.119	7	210
2	2.5	SCC	7.41	9.448	0.093	0.111	26	350



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3	2.5	SCC	7.41	9.448	0.093	0.111	21	350

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 ²	-10°C