

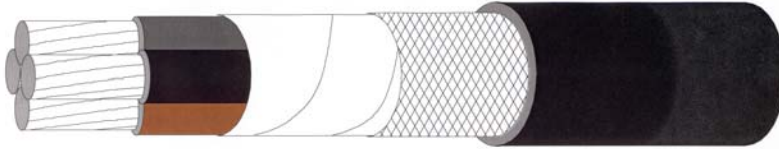


## Shipline TXOI 0,6/1kV Power cable

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	
<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>	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	X	No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>	O	Tinned annealed copper wire braid
<b>Outer sheath</b>	I	Flame retardant halogen-free thermoplastic compound, SHF1
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 TXOI 0,6/1KV 3 x 10/10 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



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

### 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>	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	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	7.5	0.9	0.203	1.2	13.0 ± 0.8	460	354
1	50	6	8.75	1.0	0.3	1.3	15.0 ± 0.8	620	495
1	70	6	10.55	1.1	0.3	1.4	17 ± 0.8	850	691
1	95	6	12.45	1.1	0.3	1.4	19 ± 0.8	1170	981
1	120	10	14.0	1.2	0.3	1.5	21 ± 1	1390	1173
1	150	10	15.5	1.4	0.3	1.6	23 ± 1	1690	1435
1	185	10	18.3	1.6	0.3	1.6	26 ± 1	2280	1961
1	240	10	19.9	1.7	0.3	1.7	28.5 ± 1	2640	2291
2	1.5	2.5	1.6	0.7	0.203	1.1	9.5 ± 0.5	125	63
3G	1.5	-	1.6	0.7	0.203	1.1	10.0 ± 0.8	150	79
3	1.5	2.5	1.6	0.7	0.203	1.1	10.0 ± 0.8	150	79
4G	1.5	-	1.6	0.7	0.203	1.1	10.5 ± 0.8	175	94
4	1.5	2.5	1.6	0.7	0.203	1.1	10.5 ± 0.8	175	94
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	0.203	1.2	12.0 ± 0.8	210	114
7	1.5	4	1.6	0.7	0.2	1.2	12.5 ± 0.8	275	145
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	17.0 ± 0.8	440	261
14	1.5	6	1.6	0.7	0.3	1.4	17 ± 0.8	490	311
16	1.5	6	1.6	0.7	0.3	1.4	18 ± 0.8	540	339
19	1.5	6	1.6	0.7	0.3	1.5	19.5 ± 0.8	620	376
24	1.5	10	1.6	0.7	0.3	1.6	22.5 ± 1	770	470
2	2.5	2.5	2.0	0.7	0.203	1.1	10.5 ± 0.8	155	84
3G	2.5	-	2.0	0.7	0.203	1.1	11.0 ± 0.8	185	106
3	2.5	2.5	2.0	0.7	0.203	1.1	11.0 ± 0.8	185	106
4G	2.5	-	2.0	0.7	0.203	1.2	12.0 ± 0.8	225	136
4	2.5	2.5	2.0	0.7	0.203	1.2	12.0 ± 0.8	230	132
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	0.203	1.2	13.0 ± 0.8	275	160
2	4	4	2.55	0.7	0.2	1.2	11 ± 0.8	200	120
3	4	4	2.55	0.7	0.203	1.2	12 ± 0.8	250	153
4	4	6	2.55	0.7	0.3	1.3	14.0 ± 0.8	340	220
4G	4	-	2.55	0.7	0.3	1.3	13.5 ± 0.8	350	230
2	6	6	3.1	0.7	0.3	1.2	13 ± 0.8	280	182



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

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)
3	6	6	3.1	0.7	0.3	1.3	14.0 ± 0.8	360	236
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
3	10	10	3.9	0.7	0.4	1.3	15.5 ± 0.8	540	405
4	10	10	3.9	0.7	0.3	1.4	17.5 ± 0.8	650	481
3	16	16	4.95	0.7	0.4	1.4	18.5 ± 0.8	760	581
4	16	16	5.15	0.7	0.5	1.5	21 ± 1	1010	789
3	25	16	6.25	0.9	0.4	1.6	22.5 ± 1	1100	842
3	35	16	7.5	0.9	0.3	1.6	25.0 ± 1	1400	1136
3	50	25	-	1.0	0.4	1.8	25 ± 1	1820	1507
3	70	35	-	1.1	0.575	2	29.5 ± 1	2650	2233
3	95	50	-	1.1	0.575	2.1	33.0 ± 1.5	3440	2944

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838600	TXOI 0,6/1KV 1X 16/2,5mm2	BLACK	-	7021528386004	1059006	124884NN	8711401019226
838601	TXOI 0,6/1KV 1X 25/4mm2	BLACK	-	7021528386011	1059007	124885NN	8711401019233
838602	TXOI 0,6/1kv 1X 35/4mm <sup>2</sup>	BLACK	Yes	7021528386028	1059008	124886KK	8711401089212
838603	TXOI 0,6/1kv 1X 50/6mm <sup>2</sup>	BLACK	Yes	7021528386035	1059009	124887KK	8711401093783
838604	TXOI 0,6/1KV 1X 70/6mm2	BLACK	Yes	7021528386042	1059010	124888KK	8711401089236
838605	TXOI 0,6/1KV 1X 95/6mm2	BLACK	Yes	7021528386059	1059011	124889KK	8711401093790
838606	TXOI 0,6/1KV 1X 120/10mm2	BLACK	Yes	7021528386066	1059012	124890KK	8711401093813
838607	TXOI 0,6/1kv 1X 150/10mm <sup>2</sup>	BLACK	Yes	7021528386073	1059013	124891KK	8711401088659
838608	TXOI 0,6/1kv 1X 185/10mm <sup>2</sup>	BLACK	Yes	7021528386080	1059014	124892NN	8711401019325
838609	TXOI 0,6/1KV 1X 240/10mm2	BLACK	Yes	7021528386097	1059015	124893KK	8711401093837
838615	TXOI 0,6/1KV 2X 1,5/2,5mm2	BLACK	Yes	7021528386158	1059020	124894KK	8711401093844
838616	TXOI 0,6/1KV 3G 1,5mm2	BLACK	Yes	7021528386165	1059030	127202KK	8711401094421
838618	TXOI 0,6/1KV 3X 1,5/2,5mm2	BLACK	Yes	7021528386189	1059040	124900KK	8711401089311
838619	TXOI 0,6/1KV 4G 1,5mm2	BLACK	Yes	7021528386196	1059060	127203KK	8711401094445
838621	TXOI 0,6/1kv 4X 1.5/2.5mm <sup>2</sup>	BLACK	Yes	7021528386219	1059070	124913KK	8711401089373
838622	TXOI 0,6/1KV 5G 1,5mm2	BLACK	-	7021528386226	1059085	-	-
838624	TXOI 0,6/1kv 5X 1.5/2.5mm <sup>2</sup>	BLACK	Yes	7021528386240	1059090	124920KK	8711401094308
838625	TXOI 0,6/1kv 7X 1.5/4mm <sup>2</sup>	BLACK	Yes	7021528386257	1059100	124924KK	8711401089380
838626	TXOI 0,6/1KV 10X 1,5/6mm2	BLACK	-	7021528386264	1059102	124926NN	8711401019615
838627	TXOI 0,6/1kv 12X 1.5/6mm <sup>2</sup>	BLACK	Yes	7021528386271	1059103	124927KK	8711401094353
838628	TXOI 0,6/1KV 14X 1,5/6mm2	BLACK	-	7021528386288	1059105	-	-
838629	TXOI 0,6/1KV 16X 1,5/6mm2	BLACK	-	7021528386295	1059106	124928NN	8711401019639
838630	TXOI 0,6/1KV 19X 1,5/6mm2	BLACK	Yes	7021528386301	1059107	124929KK	8711401094391
838631	TXOI 0,6/1KV 24X 1,5/10mm2	BLACK	-	7021528386318	1059108	124930NN	8711401019653
838633	TXOI 0,6/1KV 2X 2,5/2,5mm2	BLACK	Yes	7021528386332	1059021	124895KK	8711401093851
838634	TXOI 0,6/1kv 3G 2.5mm <sup>2</sup>	BLACK	Yes	7021528386349	1059031	127198KK	8711401088666
838636	TXOI 0,6/1kv 3X 2.5/2.5mm <sup>2</sup>	BLACK	Yes	7021528386363	1059041	124901KK	8711401093967
838637	TXOI 0,6/1kv 4G 2.5mm <sup>2</sup>	BLACK	-	7021528386370	1059061	127199KK	8711401094414
838639	TXOI 0,6/1kv 4X 2.5/2.5mm <sup>2</sup>	BLACK	Yes	7021528386394	1059071	124914KK	8711401094247
838641	TXOI 0,6/1KV 5G 2,5mm2	BLACK	-	7021528386417	1059086	-	-
838642	TXOI 0,6/1kv 5X 2.5/4mm <sup>2</sup>	BLACK	Yes	7021528386424	1059091	124921KK	8711401094339
838650	TXOI 0,6/1kv 2X 4/4mm <sup>2</sup>	BLACK	Yes	7021528386509	1059022	124896NN	8711401019486
838651	TXOI 0,6/1kv 3X 4/4mm <sup>2</sup>	BLACK	Yes	7021528386516	1059042	124902KK	8711401089410
838652	TXOI 0,6/1KV 4X 4/6mm2	BLACK	Yes	7021528386523	1059072	124915KK	8711401094254



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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838653	TXOI 0,6/1KV 4G 4mm <sup>2</sup>	BLACK	-	7021528386530	1059062	-	-
838656	TXOI 0.6/1kV 2X 6/6mm <sup>2</sup>	BLACK	Yes	7021528386561	1059023	124897KK	8711401093882
838657	TXOI 0,6/1KV 3X 6/6mm <sup>2</sup>	BLACK	Yes	7021528386578	1059043	124903KK	8711401093974
838658	TXOI 0,6/1KV 4X 6/6mm <sup>2</sup>	BLACK	-	7021528386585	1059073	124916NN	8711401019578
838659	TXOI 0,6/1KV 4G 6mm <sup>2</sup>	BLACK	-	7021528386592	1059063	-	-
838663	TXOI 0.6/1kV 3X 10/10mm <sup>2</sup>	BLACK	Yes	7021528386639	1059044	124904KK	8711401093981
838664	TXOI 0.6/1kV 4X 10/10mm <sup>2</sup>	BLACK	-	7021528386646	1059074	124917KK	8711401094278
838669	TXOI 0.6/1kV 3X 16/16mm <sup>2</sup>	BLACK	Yes	7021528386691	1059045	124905KK	8711401088673
838670	TXOI 0,6/1KV 4X 16/16mm <sup>2</sup>	BLACK	-	7021528386707	1059075	124918NN	8711401019448
838675	TXOI 0.6/1kV 3X 25/16mm <sup>2</sup>	BLACK	Yes	7021528386752	1059046	124906KK	8711401089717
838681	TXOI 0,6/1KV 3X 35/16mm <sup>2</sup>	BLACK	Yes	7021528386813	1059047	124907KK	8711401094018
838687	TXOI 0,6/1KV 3X 50/25mm <sup>2</sup>	BLACK	Yes	7021528386875	1059048	124908KK	8711401088680
838693	TXOI 0.6/1kV 3X 70/35mm <sup>2</sup>	BLACK	Yes	7021528386936	1059049	124909KK	8711401094230
838700	TXOI 0.6/1kV 3X 95/50mm <sup>2</sup>	BLACK	Yes	7021528387001	1059050	124910KK	8711401088697

### 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	16	2.5	SCC	1.15	1.466	0.100	0.120	96	2240
1	25	4	SCC	0.727	0.927	0.096	0.115	127	3500
1	35	4	SCC	0.524	0.668	0.098	0.118	157	4900
1	50	6	SCC	0.387	0.493	0.095	0.114	196	7000
1	70	6	SCC	0.268	0.342	0.092	0.110	242	9800
1	95	6	SCC	0.193	0.246	0.088	0.106	293	13300
1	120	10	SCC	0.153	0.195	0.086	0.103	339	16800
1	150	10	SCC	0.124	0.158	0.083	0.099	389	21000
1	185	10	SCC	0.0991	0.1264	0.083	0.100	444	25900
1	240	10	SCC	0.0754	0.0961	0.082	0.099	522	33600
2	1.5	2.5	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	2.5	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	2.5	SCC	12.1	15.428	0.112	0.134	16	210
5G	1.5	-	SCC	12.1	15.428	0.099	0.119	16	210
5	1.5	2.5	SCC	12.1	15.428	0.114	0.137	13.5	210
7	1.5	4	SCC	12.1	15.428	0.104	0.125	12	210
10	1.5	6	SCC	12.1	15.428	0.099	0.119	10.5	210
12	1.5	6	SCC	12.1	15.428	0.104	0.125	10	210
14	1.5	6	SCC	12.1	15.428	0.099	0.119	9.5	210
16	1.5	6	SCC	12.1	15.428	0.099	0.119	9	210
19	1.5	6	SCC	12.1	15.428	0.104	0.125	8.5	210
24	1.5	10	SCC	12.1	15.428	0.099	0.119	8	210
2	2.5	2.5	SCC	7.41	9.448	0.098	0.118	26	350
3G	2.5	-	SCC	7.41	9.448	0.098	0.118	26	350
3	2.5	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
4	2.5	2.5	SCC	7.41	9.448	0.105	0.126	21	350
5G	2.5	-	SCC	7.41	9.448	0.093	0.111	21	350
5	2.5	4	SCC	7.41	9.448	0.122	0.147	17.5	350



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

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
2	4	4	SCC	4.61	5.878	0.087	0.104	34	560
3	4	4	SCC	4.61	5.878	0.092	0.110	28	560
4	4	6	SCC	4.61	5.878	0.099	0.119	28	560
4G	4	-	SCC	4.61	5.878	0.087	0.104	28	560
2	6	6	SCC	3.08	3.927	0.088	0.106	44	840
3	6	6	SCC	3.08	3.927	0.088	0.106	36	840
4	6	6	SCC	3.08	3.927	0.082	0.099	36	840
4G	6	-	SCC	3.08	3.927	0.082	0.099	36	840
3	10	10	SCC	1.83	2.333	0.084	0.100	50	1400
4	10	10	SCC	1.83	2.333	0.091	0.109	50	1400
3	16	16	SCC	1.15	1.466	0.080	0.096	67	2240
4	16	16	SCC	1.15	1.466	0.074	0.089	67	2240
3	25	16	SCC	0.727	0.927	0.080	0.097	89	3500
3	35	16	SCC	0.524	0.668	0.078	0.093	110	4900
3	50	25	SSC	0.387	0.493	0.071	0.085	137	7000
3	70	35	SSC	0.268	0.342	0.070	0.084	169	9800
3	95	50	SSC	0.193	0.246	0.069	0.083	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

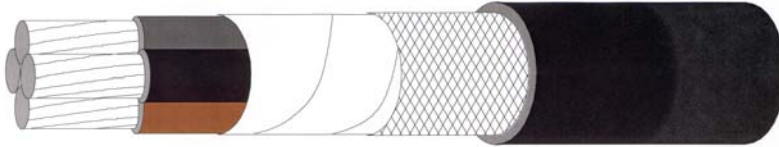


## Shipline TXOI 0,6/1kV Power cable

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
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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>	<b>X</b>	No inner covering. (Additional tapes may be applied)
<b>Tape over inner covering</b>		PET tape + rubberized Polyamide tape
<b>Armour/screen</b>	<b>O</b>	Two layers of tinned copper wire braid ( <b>double braid</b> )
<b>Tape over armour/screen</b>		PET tape + rubberized Polyamide tape
<b>Outer sheath</b>	<b>I</b>	Flame retardant halogen-free thermoplastic compound, SHF1
<b>Marking text</b>		E.g. "meter" "year" DRAKA 01 TXOI 0,6/1KV 3 x 120/60 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



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

### 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>	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)
3	120	60	-	1.2	0.4	2.3	38 ± 1.5	4420	3813

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
838706	TXOI 0.6/1kV 3X 120/60mm <sup>2</sup>	BLACK	-	7021528387063	1059051	127205NN	8711401072276

### 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
3	120	60	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