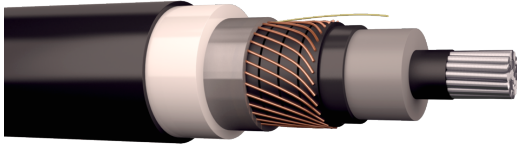


## Power Cables 52 kV

# AXLJ-TTCL TSLF 26/45(52) kV



### Application

Single-core, distribution cable for outdoor use in 3-phase formation. Installation in pipes and ground/water. Both radial and longitudinal water sealed. Can be ploughed down. The outer sheath has a conductive layer that greatly extends the possibilities to do a sheath testing before, during and after installation. Ripcords for easier and safer stripping of the outer sheath.

### Alternative Product Name

SE-N45XC7A5T5E-AR

### Flame retardance

Flame retardant - Not applicable

### Standard

IEC 60840

Construction standard

### Construction

Cable Shape	Round
Conductors	Stranded, round, compressed aluminium acc. to IEC 60228 class 2, longitudinally watertight
Conductor Insulation	XLPE, nom. thickness = 9,0 mm
Inner semi-conducting layer	Extruded
Outer semi-conducting layer	Bonded
Longitudinal water tightness	Semi conducting water blocking tape
Shield / Screen	Annealed copper wires in contact with aluminum tape
Radial water blocking	Aluminium-PE laminate, bonded to sheath
Ripcord	Aramid
Outer Sheath	PE, natural UV protected
Semi-conducting layer in outer sheath	Yes (facilitates sheath testing)
Example of marking on sheath	AXLJ-TTCL TSLF 52kV 1x50 AFR/25 DRAKA "Date and time", metre marked

### Temperature

Maximum operating Temperature	90 °C
Temperatures at installation [°C]	Lowest cable temperature during installation -20 °C, below 0 °C special precaution shall be taken.

### Features

Bending radius	In fixed installation: 10 x D When pulling-in: 15 x D When plowing down: 8 x D
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### Electrical

Max. short circuit temperature [°C]	250°C
Impulse voltage [kV]	250 kV

Conductors and screen area [mm <sup>2</sup> ]	Standard delivery length [m]	Delivery Package	EAN/GTIN number	SAP Number
1x50/25	500	K16		CA.80140194
1x50/25	500	K16		
1x70/25	500	K16		CA.80140193
1x70/25	500	K16		
1x95/25	500	K16		CA.80140192
1x95/25	500	K16		
1x120/35	500	K16		CA.80140191
1x120/35	500	K16		
1x150/35	500	K18		CA.80140128
1x150/35	500	K18		
1x185/35	500	K18		CA.80140129
1x185/35	500	K18		
1x240/35	500	K20	7330384713580	20111047
1x240/35	500	K20	7330384713580	20111047-5
1x300/35	500	K20	7330384718325	20165484
1x300/35	500	K20	7330384718325	20165484-5
1x400/35	500	K22	7330384718042	20159537
1x400/35	500	K22	7330384718042	20159537-5
1x500/50	500	K22	7330384719384	20183095
1x500/50	500	K22		
1x630/50	500	K24	7330384714075	20113584
1x630/50	500	K24	7330384714075	20113584-5
1x800/50	500	K24	7330384719070	20173864
1x800/50	500	K24		

Conductors and screen area [mm <sup>2</sup> ]	Conductor resistance Ω/km	Screen resistance* Ω/km	Inductance in trefoil/in flat* mH/km	Reactance Ω/km	Capacitance μF/km	Charging current/phase A/km	Earth fault current A/km
1x50/25	0,641	0,727	0,49/0,75	0,24	0,12	1,0	2,9
1x70/25	0,443	0,727	0,46/0,72	0,23	0,13	1,1	3,2
1x95/25	0,320	0,727	0,44/0,69	0,22	0,14	1,1	3,4
1x120/35	0,253	0,524	0,42/0,67	0,21	0,16	1,3	3,9
1x150/35	0,206	0,524	0,41/0,65	0,20	0,17	1,4	4,2
1x185/35	0,164	0,524	0,39/0,63	0,20	0,18	1,5	4,4
1x240/35	0,125	0,524	0,38/0,61	0,19	0,19	1,6	4,7
1x300/35	0,100	0,524	0,36/0,59	0,19	0,21	1,7	5,1
1x400/35	0,0778	0,524	0,35/0,56	0,18	0,24	2,0	5,9
1x500/35	0,0605	0,524	0,34/0,55	0,17	0,26	2,1	6,4
1x630/50	0,0469	0,387	0,33/0,53	0,17	0,28	2,3	6,9
1x800/50	0,0367	0,387	0,32/0,51	0,16	0,31	2,5	7,6

\* Cable distance, installation in flat formation = 70 mm. Note screen resistance is the sum of copper wires and aluminum tape.

Conductors and screen area [mm <sup>2</sup> ]	Current rating at core temp. 65°C in ground *A	Current rating at core temp. 65°C in air *A	Current rating at core temp. 90°C in air *A	Max. short circuit current on the conductor during 1s at initial temp. 65°C kA	Max. short circuit current on the conductor during 1s at initial temp. 90°C kA
1x50/25	155	160	195	5,2	4,7
1x70/25	200	190	235	7,2	6,6
1x95/25	235	230	280	9,9	8,9
1x120/35	265	265	325	12,4	11,3
1x150/35	300	300	370	15,6	14,2
1x180/35	330	345	425	19,2	17,5
1x240/35	385	400	490	25,0	22,7
1x300/35	435	460	565	31,2	28,3
1x400/35	510	555	680	41,6	37,8
1x500/50	570	635	775	52,0	47,2
1x630/50	635	720	880	65,6	59,5
1x800/50	695	822	1010	83,2	75,6

\* Trefoil with screen grounded in both end.

The ratings are based on the following conditions –maximum conductor temperature 90°C –ground temperature 15°C –air temperature 25°C –thermal resistivity of soil 1,0 °K/m/W –depth of burial 0,65 m –frequency 50Hz