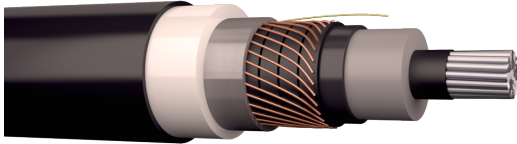


Power Cables 36 kV

AXLJ-TTCL TSLF 18/30(36) 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-N30XC7A5T5E-AR

Flame retardance

Flame retardant - Not applicable

Standard

SS 424 14 16
CENELEC HD 620 Part 10 Section K
CENELEC HD 620 Part 10 Section M

Construction standard 12-36 kV
Harmonized Construction Standard
Harmonized Construction Standard

Construction

Cable Shape	Round
Conductors	Stranded, round and compacted aluminium acc. to IEC 60228 class 2, longitudinal water sealed
Conductor Insulation	XLPE, min. thickness = 7,1 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 36kV 1x95 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 out: 15 x D When plowing down: 8 x D
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Electrical

Max. short circuit temperature [°C]	250°C
Impulse voltage [kV]	170 kV

Conductors and screen area [mm ²]	Standard delivery length [m]	Delivery Package	EAN/GTIN number	SAP Number
1x50/25	500	K14	7330384719087	20114470
1x70/25	500	K14	7330384719094	20114471
1x95/25	500	K16	7330384713665	20102188-5
1x95/25	500	K16	7330384713665	20102188
1x120/35	500	K16	7330384719100	20114472
1x150/35	500	K18	7330384719117	20114473
1x185/35	500	K18	7330384713658	20102189
1x240/35	500	K18		20114474-5
1x240/35	500	K18	7330384719124	20114474
1x300/35	500	K20	7330384713689	20102190
1x400/35	500	K20	7330384713702	20102191
1x500/35	500	K22	7330384713672	20102192-5
1x500/35	500	K22	7330384713672	20102192
1x630/50	500	K22	7330384716772	20114469
1x630/50	500	K22	7330384716772	20114469-5
1x800/50	500	K24	7330384718158	20114475
1x1000/50	500	K26		CA. 80160229

Conductors and screen area [mm ²]	Conductor resistance Ω/km	Screen resistance* Ω/km	Inductance in trefoil/in flat* mH/km	Reactance in trefoil/in flat* Ω/km	Capacitance μF/km	Charging current/phase A/km	Earth fault current A/km
1x50/25	0,641	0,727	0,47/0,75	0,15/0,24	0,13	0,7	2,2
1x70/25	0,443	0,727	0,44/0,71	0,14/0,22	0,14	0,8	2,4
1x95/25	0,320	0,727	0,42/0,68	0,13/0,21	0,16	0,9	2,7
1x120/35	0,253	0,524	0,41/0,66	0,13/0,21	0,17	1,0	2,9
1x150/35	0,206	0,524	0,39/0,64	0,12/0,20	0,19	1,1	3,2
1x185/35	0,164	0,524	0,38/0,62	0,12/0,20	0,20	1,1	3,4
1x240/35	0,125	0,524	0,36/0,60	0,11/0,19	0,22	1,2	3,7
1x300/35	0,100	0,524	0,35/0,58	0,11/0,18	0,24	1,4	4,1
1x400/35	0,0778	0,524	0,34/0,56	0,11/0,18	0,27	1,5	4,6
1x500/35	0,0605	0,524	0,32/0,54	0,10/0,17	0,29	1,6	4,9
1x630/50	0,0469	0,387	0,31/0,52	0,10/0,16	0,33	1,9	5,9
1x800/50	0,0367	0,387	0,30/0,50	0,09/0,16	0,36	2,0	6,1
1x1000/50	0,0291	0,387	0,30/0,49	0,09/0,15	0,40	2,3	6,8

* 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 ²]	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
1x185/35	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
1x500/35	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
1x1000/50	760	920	1130	103,7	94,5

* 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 °Km/W –depth of burial 0,65 m –frequency 50Hz