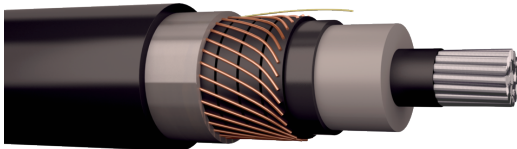


Power Cables 12 kV

AXQJ-TT Pure TSLI 6/10(12) kV



Application

Halogen-free, flame retardant and self-extinguishing in case of fire. Smoke in the event of fire is limited, transparent (to facilitate evacuation) and not harmful to electronic equipment. Radial and longitudinal water sealed distribution cable for use indoors and outdoors for 3-phase formation. Installation in pipes and ground. Ploughing down is not recommended. Ripcords for easier and safer stripping of the outer sheath.

Alternative Product Name

SE-N10XC7A5Z1-AR

Environmental

Environmental Declaration - AXQJ-TT Pure TSLI
Byggvarubedömningen - Judged

Standard

CENELEC HD 620 Part 10 Section M
CENELEC HD 620 Part 10 Section K
CENELEC HD 604
SS-EN 60754-1, -2
SS-EN 61034-1, -2
EN 50575:2014

Harmonized Construction Standard
Harmonized Construction Standard
Halogen free material
Corrosive gases
Smoke density
Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

Construction

Cable Shape	Round
Conductors	Stranded, round and compacted aluminium acc. to IEC 60228 class 2, longitudinal water sealed
Inner semi-conducting layer	Extruded
Conductor Insulation	XLPE, min. thickness = 2,96 mm
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 laminate bonded to the sheath
Ripcord	Aramid
Outer Sheath	Halogen free compound, black
Example of marking on sheath	AXQJ-TT Pure TSLI 12kV 1x240 AFR/35 D-s2d2a2 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

CPR Performance class	Dca-s2d2a2
Bending radius	In fixed installation: 10 x D When pulling-in: 15 x D When plowing down: 8 x D

Electrical

Impulse voltage [kV]	75 kV
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Conductors and screen area [mm ²]	Diameter over insulation [mm]	Diameter over sheath [mm]	Cable weight [kg/km]	Standard delivery length [m]	Delivery Package	SAP Number	E-number
1x50/16	15,9	23,5	600	500	K11	20218299	
1x70/16	16,9	24,5	665	500	K11	20218300	
1x95/25	18,6	26,5	860	500	K12	20218371	
1x120/25	20,2	28	950	500	K12	20218372	
1x150/25	21,5	29,5	1075	500	K12	20218373	
1x185/25	23,2	31,5	1295	500	K14	20218374	
1x240/35	25,4	33,5	1485	500	K14	20218375	0080120
1x300/35	27,9	36,5	1760	500	K16	20218376	
1x400/35	31,1	38	2045	500	K16	20218377	
1x500/35	34	43	2405	500	K18	20218378	
1x630/35	37,9	47	2940	500	K20	20218379	0080130
1x800/50	42,2	51,6	3730	500	K20	20218380	

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
1x50/16	0,641	1,15	0,40/0,72	0,13/0,23	0,25	0,5	1,4
1x70/16	0,443	1,15	0,37/0,69	0,12/0,22	0,28	0,5	1,6
1x95/25	0,320	0,727	0,36/0,66	0,11/0,21	0,32	0,6	1,8
1x120/25	0,253	0,727	0,34/0,64	0,11/0,20	0,35	0,7	2,0
1x150/25	0,206	0,727	0,33/0,62	0,10/0,20	0,38	0,7	2,1
1x185/25	0,164	0,727	0,32/0,60	0,10/0,19	0,41	0,8	2,3
1x240/35	0,125	0,524	0,31/0,58	0,10/0,18	0,46	0,9	2,6
1x300/35	0,100	0,524	0,30/0,59	0,09/0,17	0,50	1,0	3,0
1x400/35	0,0778	0,524	0,29/0,54	0,09/0,17	0,57	1,1	3,3
1x500/35	0,0605	0,524	0,28/0,52	0,09/0,16	0,58	1,1	3,3
1x630/35	0,0469	0,524	0,27/0,50	0,09/0,16	0,64	1,2	3,6
1x800/50	0,0367	0,387	0,27/0,49	0,09/0,15	0,79	1,5	4,5

* 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
1x50/16	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
1x120/25	265	265	325	12,4	11,3
1x150/25	300	300	370	15,6	14,2
1x185/25	330	345	425	19,2	17,5
1x240/35	385	400	490	25,0	22,7
1x300/35	435	460	565	31,0	28,3
1x400/35	510	555	680	41,6	37,8
1x500/35	570	635	775	52,0	47,2
1x630/35	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 °Km/W –depth of burial 0,65 m –frequency 50Hz