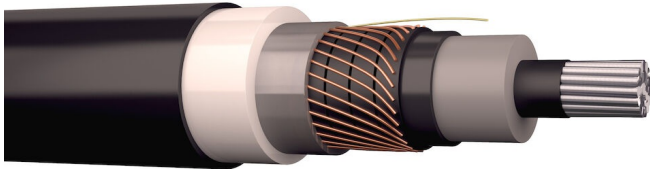


AXLJ-TTCL TSLF 12/20(24) KV

Single-core halogen-free and waterproof distribution cable



DESCRIPTION

Longitudinal and radial watertight 1-core distribution cable for outdoor installation in pipes, directly in soil or water, in 3-phase formation. Can also be ploughed under with caution. With concentric copper screen and full covering aluminium tape. The outer sheath has a conductive layer that allows for sheath testing before, during and after installation. Ripcords for easier and safer stripping of the outer sheath.

CERTIFICATION, APPROVAL & STANDARD

SS 424 14 16

HD 620 part 10 section K

HD 620 part 10 section M

Construction standard 12-36 kV

Harmonized Construction and Testing Standard

Harmonized construction and testing standard

CONSTRUCTION

Conductor material	Aluminium
Conductor surface	Bare
Longitudinal water blocking conductors	Yes
Core insulation material	XLPE
Longitudinal water blocking cable	Yes
Radial water blocking cable	Yes
Screen construction	Aluminium tape and copper wire
Screen material	Copper, bare
Material outer sheath	MDPE
Laminated sheath	Yes
Cable shape	Round

ELECTRICAL PROPERTIES

Rated voltage U ₀ /U (Um)	12/20 (24) kV
Test voltage [kV]	50

FIRE PROPERTIES

Halogen free

acc. IEC/EN 60754-1/2

THERMAL PROPERTIES

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Permitted cable outer temperature during assembling/handling (min) [°C]	-20
Permitted cable outer temperature during assembling/handling (max) [°C]	65

MECHANICAL PROPERTIES

Permanent tensile strength (rule)	Fixed 10 x D, During installation 15 x D
Bending radius (rule)	Fixed installation: 10 x D During handling: 15 x D During plowing: 8 x D

APPLICATION PROPERTIES

UV resistant	Yes
Outdoor installation	Yes
Underground installation	Yes
Suitable as medium voltage cable	Yes

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DELIVERY INFORMATION

Basic construction	Conductor category	Cable weight [kg/km]	Standard packaging quantity	SAP code	EAN-code (GTIN)
1x50/16 mm ²	Class 2 = stranded	700	500	20102178	7330384707893
1x95/25 mm ²	Class 2 = stranded	970	500	20102179	7330384707299
1x150/25 mm ²	Class 2 = stranded	1,200	500	20102180	7330384707879
1x240/35 mm ²	Class 2 = stranded	1,630	500	20102181	7330384707701
1x300/35 mm ²	Class 2 = stranded	1,900	500	20113278	7330384714037
1x400/35 mm ²	Class 2 = stranded	2,808	500	20102182	7330384707022
1x630/50 mm ²	Class 2 = stranded	3,215	500	20102183	7330384709392

MECHANICAL DATA

Basic construction	Diameter conductor [mm]	Nominal diameter over insulation [mm]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Min. permitted bending radius, during cable laying [mm]	Pulling force with pulling hose [N]
1x50/16 mm ²	8	19.6	1.8	28	420	2,500
1x95/25 mm ²	11.3	22.9	1.9	31	475	4,000
1x150/25 mm ²	14.2	25.8	2	34.4	515	5,500
1x240/35 mm ²	18	29.6	2.2	38.5	580	7,750
1x300/35 mm ²	20.5	32.2	2.2	41.2	625	9,000
1x400/35 mm ²	23.7	35.4	2.3	44.5	670	12,000
1x630/50 mm ²	30.3	42.2	2.5	52	790	18,000

* Nominal values

ELCTRICAL PARAMETERS

Basic construction	Capacitance per phase [μF/km]	Reactance* [Ω/km]	Fault Current, Conductor [kA/1s]	Fault Current, Screen [kA/1s]
1x50/16 mm ²	0,17	0,14	4,7	
1x95/25 mm ²	0,21	0,13	8,9	4,0
1x150/25 mm ²	0,25	0,12	14,2	4,0
1x240/35 mm ²	0,30	0,11	22,7	5,6
1x300/35 mm ²	0,33	0,10	28,3	5,6
1x400/35 mm ²	0,37	0,10	37,8	5,6
1x630/50 mm ²	0,45	0,09	59,0	8,0

*Closed trefoil

AMPACITY

Basic construction	In air Closed screen [A]	In air Open screen [A]	Buried, 0,7 m Closed screen [A]	Buried, 0,7 m Open screen [A]
1x50/16 mm ²	195	195	185	185
1x95/25 mm ²	280	285	275	280
1x150/25 mm ²	370	380	355	360
1x240/35 mm ²	490	505	455	465
1x300/35 mm ²	565	580	510	525
1x400/35 mm ²	680	695	600	615
1x630/50 mm ²	880	915	745	780
1x800/50 mm ²	995	1020	825	850

90 °C conductor temperature

In air: Closed trefoil, 25 °C

Buried: Closed trefoil, 15°C, depth 0,7 m, resistivity 1 K·m/W

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