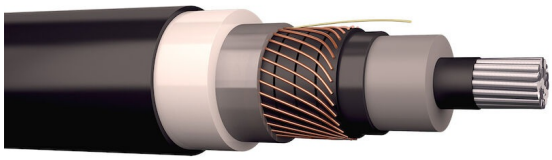
AXLJ-TTCL TSLF 36/60(72,5) kV

1-core cable for outdoor usage



DESCRIPTION

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. Cable screen designed as a combination of copper wires and aluminum tape. 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.

STANDARDS, CERTIFICATIONS AND APPROVALS

IEC 60840	Construction standard
IEC 60228	Construction standard

Conductor design	Stranded, round, compacted aluminium acc. to IEC 60228 class 2, longitudinal water sealed
Conductor material	Aluminium
Core insulation material	XLPE
Screen construction	Aluminium tape and copper wire
Material outer sheath	MDPE
Laminated sheath	Yes
Longitudinal water blocking screen	Yes
Rip cord	Yes
UV resistant	Yes
Rated voltage U0/U (Um)	36/60 (72.5) kV
Test voltage [kV]	90
Halogen free	acc. IEC/EN 60754-1/2
Max. conductor temperature	90
Min. outer temperature during installation [°C]	-20
Permitted cable outer temperature after assembling without vibration (min) [°C]	-60
Cable marking example	AXLJ-TTCL 72kV 1x150/35 Prysmian "Date and time", metre marked
Bending radius (rule)	Fixed installation: 10 x D During handling: 15 x D During plowing: 8 x D

PRODUCT DATA

Product name	SAP code	Cable weight [kg/km]	Delivery length [m]	Packaging
AXLJ-TTCL TSLF 1x240/35 72kV	20111045	2,500	500	K20
AXLJ-TTCL TSLF 1x400/35 72kV	20117667	3,050	500	K24
AXLJ-TTCL TSLF 1x500/50 72kV	20117668	3,550	500	K24
AXLJ-TTCL TSLF 1x630/50 72kV	20117218	4,200	500	K24
AXLJ-TTCL TSLF 1x800/50 72kV	20121491	5,200	500	K24

CABLE DIMENSIONS

Product name	Conductor diameter [mm]	Nominal thickness insulation [mm]	Diameter over insulation [mm]	Outer diameter [mm]
AXLJ-TTCL TSLF 1x240/35 72kV	18	11	41.4	52
AXLJ-TTCL TSLF 1x400/35 72kV	23.7	10	45.1	56
AXLJ-TTCL TSLF 1x500/50 72kV	26.6	10	48	59
AXLJ-TTCL TSLF 1x630/50 72kV	30.3	10	51.7	63
AXLJ-TTCL TSLF 1x800/50 72kV	34.6	10	56.8	70

Nominal values unless otherwise specified

ELECTRICAL DATA

Product name	Nominal operation capacitance [nF/km]	Conductor resistance at 20° C [Ohm/km]	Short circuit current screen (1sec) [kA]
AXLJ-TTCL TSLF 1x240/35 72kV	170	0.125	5.6
AXLJ-TTCL TSLF 1x400/35 72kV	200	0.0778	5.6
AXLJ-TTCL TSLF 1x500/50 72kV	220	0.0605	8
AXLJ-TTCL TSLF 1x630/50 72kV	260	0.0469	8
AXLJ-TTCL TSLF 1x800/50 72kV	280	0.0367	8

Nominal values unless otherwise specified

Cross-section conductor and screen [mm2]	Inductance in triangle/ in flat [mH/km]	Reactance in triangle/ in flat [Ohm/km]	Capacitive charging current [A/km]	Capacitive earth leakage current [A/km]	Current carrying capacity 65 °C [A] (Ground)
1x150/35	0,44/0,66	0,14/0,21	1,8	4,8	295
1x240/35	0,38/0,60	0,13/0,20	2,2	5,8	390
1x400/35	0,36/0,57	0,11/0,18	2,8	7,5	510
1x500/50	0,35/0,55	0,11/0,17	3,1	8,1	570
1x630/50	0,33/0,53	0,10/0,17	3,4	8,8	640
1x800/50	0,33/0,52	0,10/0,16	3,7	9,5	720

Screen area refers to sum of copper wires and aluminum foil. Trefoil installation, screen grounded in both ends. Direct burial: 15 °C ground temperature, Thermal resistivity1,0 °K*m/W, laying depth 0,65,m