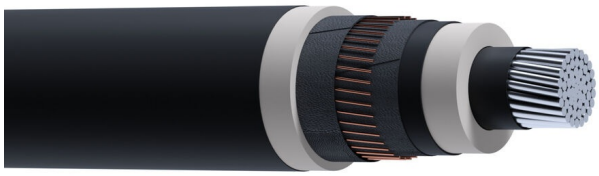
draka
A Prysmian Brand

AXLJ-FCL TSXF HD 10/12(24)

Single core cable for outdoor usage



DESCRIPTION

Single core, distribution cable for outdoor use in 3-phase formation. Installation in pipes and ground/water. Longitudinal water sealed. Can be ploughed down. The outer sheath of HDPE 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

SS 424 14 16	Construction standard 12-36 kV
CENELEC HD 620 Part 10 Section K	Harmonized construction standard
CENELEC HD 620 Part 10 Section M	Harmonized construction and testing standard
RWT: NEN HD 620 S2:2016 Part 10 Section J, Appendix F.4.	Radial water tightness test approval

Conductor design	Stranded, round, compacted aluminium acc. to IEC 60228 class 2, longitudinal water sealed
Conductor material	Aluminium
Core insulation material	XLPE
Screen construction	Wire screen
Material outer sheath	HDPE
Longitudinal water blocking screen	Yes
Rip cord	Yes
UV resistant	Yes
Rated voltage U0/U (Um)	12/20 (24) kV
Test voltage [kV]	50
Halogen free	acc. IEC/EN 60754-1/2
Max. conductor temperature	90
Min. outer temperature during installation [°C]	-20
Cable marking example	AXLJ-FCL TXSF 24kV 1x95 AFR/25 DRAKA "Datum och tid", metermärkning
Bending radius (rule)	Fixed installation: 10 x D During handling: 15 x D During plowing: 8 x D

PRODUCT DATA

Item name	External article code	SAP code	Cable weight [kg/km]	Packaging
AXLJ-FCL TSXF HD 1x95/25 24kV	1080827	20471624	1,120	K12
AXLJ-FCL TSXF HD 1x150/25 24kV	1080828	20471623	1,255	K14
AXLJ-FCL TSXF HD 1x240/35 24kV	1080829	20471602	1,700	K16
AXLJ-FCL TSXF HD 1x400/35 24kV	1080830	20471559	2,290	K18
AXLJ-FCL TSXF HD 1x630/50 24kV	1080831	20471625	3,340	

CABLE DIMENSIONS

Product name	Conductor diameter [mm]	Nominal thickness insulation [mm]	Diameter over insulation [mm]	Outer diameter [mm]	Pulling force pulling head [N]	Pulling force with pulling hose [N]
AXLJ-FCL TSXF HD 1x95/25 24kV	11.3	5.5	22.8	32	2,850	2,850
AXLJ-FCL TSXF HD 1x150/25 24kV	14.2	5.5	25.7	35	4,500	4,500
AXLJ-FCL TSXF HD 1x240/35 24kV	18	5.5	29.5	39	7,200	7,200
AXLJ-FCL TSXF HD 1x400/35 24kV	23.7	5.5	35.3	45	12,000	9,700
AXLJ-FCL TSXF HD 1x630/50 24kV	30.3	5.5	42.3	53	18,900	13,500

Nominal values if not specified

SHORT CIRCUIT DATA

Product name	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]	Short circuit current screen (1sec) [kA]	Screen DC resistance [Ohm/km]
AXLJ-FCL TSXF HD 1x95/25 24kV	0.32	9.9	4.4	5	0.727
AXLJ-FCL TSXF HD 1x150/25 24kV	0.206	15.6	7	4	0.727
AXLJ-FCL TSXF HD 1x240/35 24kV	0.125	25	11.2	7	0.524
AXLJ-FCL TSXF HD 1x400/35 24kV	0.0778	37.8	16.9	7	0.524
AXLJ-FCL TSXF HD 1x630/50 24kV	0.0469	65.6	29.3	10	0.387

Short circuit values are calculated using 90°C initial conductor temperature.

ELECTRICAL DATA

Product name	Nominal operation capacitance [nF/km]	Operating self inductance [mH/km]	Inductive Reactance (at 50Hz) [Ohm/km]	Capacitive charging current [A/km]	Zero sequence impedance [ohm/km]
AXLJ-FCL TSXF HD 1x95/25 24kV	210	0.39	0.12	0.7	1,13+j0,32
AXLJ-FCL TSXF HD 1x150/25 24kV	250	0.36	0.11	0.9	0,98+j0,31
AXLJ-FCL TSXF HD 1x240/35 24kV	300	0.33	0.1	1	0,71+j0,19
AXLJ-FCL TSXF HD 1x400/35 24kV	300	0.31	0.1	1.3	0,64+j0,19
AXLJ-FCL TSXF HD 1x630/50 24kV	450	0.29	0.09	1.6	0,46+j0,11

Nominal values unless otherwise specified. Values for installatoin in threefoil formation in ground.