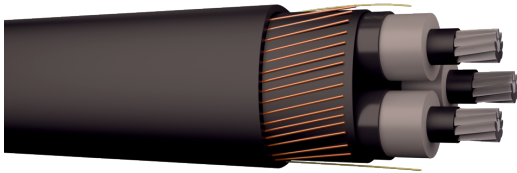


Power Cables 12 kV

AXLJ-RMF 6/10(12) kV



Application

AXLJ-RMF is a 3-core cable designed for replacement of bare overhead lines. Primary developed to be ploughed down but thanks to the robust design the cable can stand the stresses that appears when laid in water with moderate currents and limited depth. Ripcords for easier and safer stripping of the outer sheath.

Alternative Product Name

SE-N10XC7E-AR

Flame retardance

Flame retardant - Not applicable

Environmental

Environmental Declaration - AXLJ-F,
-RMF LT

Standard

SS 424 14 16
CENELEC HD 620 Part 10 Section M
IEC 60502-2

Construction standard 12-36 kV
Harmonized Construction Standard
Construction standard

Construction

Cable Shape	Triangular
Conductors	Stranded, round and compacted aluminium acc. to IEC 60228 class 2, longitudinal water sealed
Conductor Insulation	XLPE, min. thickness = 2,96 mm
Inner semi-conducting layer	Extruded
Outer semi-conducting layer	Bonded
Inner covering	Conductive tape
Shield / Screen	Annealed copper wires
Ripcord	Aramid
Outer Sheath	Composite PE, Black
Example of marking on sheath	AXLJ-RMF 12kV 3x150/25 LT 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

Fire Propagation	Cable is not flame retardant.
UV resistance	Good
Min. Bending radius at final installation	8 x D
Bending radius	In fixed installation: 8 x D When pulling-in: 12 x D When plowing down: 8 x D
Min. Bending radius at during installation	12 x D

Electrical

Max. short circuit temperature [°C]	250 °C
Impulse voltage [kV]	75 kV.

Conductors and screen area	Diameter over insulation [mm]	Diameter over sheath [mm]	Cable weight [kg/km]	Standard delivery length	Delivery Package	SAP Number	E-number
----------------------------	-------------------------------	---------------------------	----------------------	--------------------------	------------------	------------	----------

[mm ²]				[m]			
3x50/16	15,9	43,5	1300	500	K18	20078179	0070710
3x50/16	15,9	43,5	1300	500	K18	20078179-5	0070715
3x95/25	18,6	49,9	1890	500	K20	20095493	0071800
3x95/25	18,6	49,9	1890	500	K20	20095493-5	0071805
3x150/25	21,5	56,8	2535	500	K22	20078182	0070730
3x150/25	21,5	56,8	2535	500	K22	20078182-5	0070735
3x240/35	25,4	65,6	3540	500	K24	20087130	0071810
3x240/35	25,4	65,6	3540	500	K24	20087130-5	0071815
3x300/35	27,9	71	4330	500	K26	20118045	

Conductors and screen area [mm ²]	Conductor resistance Ω/km	Screen resistance Ω/km	Inductance [mH/km]	Reactance [Ω/km]	Capacitance [μF/km]	Charging current/phase [A/km]	Earth fault current [A/km]
3x50/16	0,641	1,2	0,33	0,10	0,25	0,5	1,4
3x95/25	0,320	0,8	0,30	0,09	0,32	0,6	1,8
3x150/25	0,206	0,8	0,28	0,09	0,38	0,7	2,0
3x240/35	0,125	0,6	0,23	0,09	0,46	0,8	2,5
3x300/35	0,100	0,6	0,26	0,08	0,51	1,0	2,9

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]	Max impulse current [kA]
3x50/16	145	130	160	5,2	4,7	55
3x95/25	205	190	230	9,9	8,9	65
3x150/25	260	250	305	15,6	14,2	70
3x240/35	340	330	400	25,0	22,7	70
3x300/35	380	375	460	31,2	28,3	70

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