

Maxlink SC DC AL Cable 15 kV

NBR 11873

90 °C



Conductor

Formed by bare aluminum wires, alloy 1350, temper H19, stranding class 2, round compact, meeting the requirements of standard NBR NM 280.

Conductor Lockout

In water blocking tape.

Conductor Shielding

In semiconductor thermosetting compound.

Coverage

In double layer being the inner layer in XLPE - Cross-linked polyethylene compound in black color and the outer layer in HDPE - High density polyethylene compound anti tracking in gray color, with protection against UV rays.

Maximum temperatures at the conductor

- 90 °C in continuous service
- 130 °C at overload
- 250 °C short-circuit

Implementation

Used in the installation of compact 15 kV networks, in areas where space is limited and less visual pollution is required, such as: tree-lined streets or squares, offering a smaller number of tree prunings and greater protection for the conductor.

Applicable Standards

NBR 11873 - Cables covered with polymeric material for overhead power distribution networks fixed in spacers, at voltages from 13.8 kV to 34.5 kV. NBR NM 280 - Insulated cable conductors
NBR 5118 - Bare 1350 aluminum wires of circular section for electrical purposes

Construction Data*

Nominal crossection (mm ²)	Number of wires	Conductor Diameter (mm)	Thickness Shielding Semi Conductor (mm)	Thickness Coverage (mm)		Outer Diameter (mm)	Approx mass (kg/km)	Standard Packaging
				XLPE (mm)	HDPE (mm)			Coil (m)
35,00	7	6,8 rc	0,4	1,5	1,5	13,7	195,3	1000
50,00	7	8,0 rc	0,4	1,5	1,5	15,0	239,1	1000
70,00	19	9,5 rc	0,4	1,5	1,5	16,5	310,1	1000
95,00	19	11,2 rc	0,4	1,5	1,5	18,2	394,2	1000
120,00	37	12,8 rc	0,4	1,5	1,5	19,8	475,9	1000
150,00	37	14,0 rc	0,4	1,5	1,5	21,0	559,0	1000
185,00	37	15,8 rc	0,4	1,5	1,5	22,8	673,4	500
240,00	37	18,0 rc	0,4	1,5	1,5	25,1	841,7	500
300,00	37	20,4 rc	0,4	1,5	1,5	27,2	1041,3	500

*Data subject to change without prior notice

Electrical and Mechanical Characteristics

Nominal crossection (mm ²)	Electrical Resistance (Rcc 20 °C) (Ω/km)	Electrical Resistance (Rca 90 °C) (Ω/km)	Inductive reactance (Ω/km)	Capacity Current Conduction (A)*	Tensile Strength (daN)
35,00	0,868	1,113	0,136	199	455
50,00	0,641	0,822	0,131	246	650
70,00	0,443	0,568	0,126	291	910
95,00	0,320	0,410	0,121	360	1235
120,00	0,253	0,324	0,118	432	1560
150,00	0,206	0,263	0,115	496	1943
185,00	0,164	0,210	0,113	553	2405
240,00	0,125	0,160	0,096	640	3120
300,00	0,100	0,129	0,110	759	3900

* Current-carrying capacity at 40 °C, solar radiation 1000 W/m², wind speed 2.2 km/h.