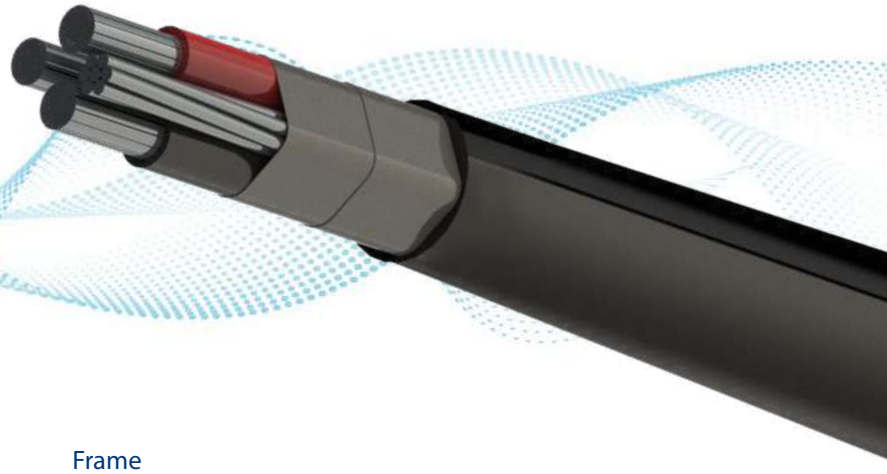
Maxlink Armored Cable AL NNU 0,6/1 kV

NBR 7287

90 °C



Conductor
Phases and Neutral: Formed by aluminum wires alloy 1350, tempera H19, stranding class 2, round compact, meeting the requirements of NBR 5118 and NBR NM 280.

Insulation das fases
XLPE 90 °C - Thermosetting compound of cross-linked polyethylene with at least 2% carbon black.

*Optionally, the neutral conductor can be covered with a semiconductor layer or insulated in XLPE 90 °C - Thermosetting cross-linked polyethylene compound with at least 2% carbon black.

Identification
Black veins identified by white printed numbers or colored veins (Black, Gray and Red).

*Other building configurations on request.

Frame
Steel tape.

Coverage
PE ST7 - Thermoplastic polyethylene compound with at least 2% carbon black.

Maximum temperatures at the conductor
- 90 °C in continuous service.
- 130 °C at overload.
- 250 °C short-circuit.

Implementation
Used in the public secondary distribution network of low voltage energy, urban or rural, aiming at greater safety, reliability and less aggressive visual effect.

Construction Data*

Formation Cable (mm²)	Conductor Phase				Neutral Conductor	
	Min. Number of Wires	Conductor Diameter (mm)	Thickness Insulation (mm)	Outer Diameter (mm)	Min. Number of Wires	Conductor Diameter (mm)
3x25 + 25	7	5,9	1,4	8,7	7	5,9
3x50 + 35	7	8,0	1,6	11,4	7	6,8
3x70 + 50	19	9,7	1,8	13,4	7	8,0
3x95 + 50	19	11,4	2,0	15,5	7	8,0

Formation Cable (mm²)	Complete Cable			
	Thickness Insulation (mm)	Conductor Diameter (mm)	Approx mass (kg/km)	Standard Packaging Coil (m)
3x25 + 25	1,6	25,4	826,8	3x25+25 = 1500
3x50 + 35	2,0	31,7	1229,2	3x50+35 = 1000
3x70 + 50	2,1	36,7	1594,7	3x70+50 = 750
3x95 + 50	2,2	41,2	1969,4	3x95+50 = 500

Data subject to change without prior notice

Electrical and Mechanical Characteristics

Formation Cable (mm²)	Electrical Resistance (Rcc 20 °C) (Ω/km)	Electrical Resistance (Rca 90 °C) (Ω/km)	Voltage Drop (FP = 0,95) (V/A*km)	Capacity Current Conduction (A)*		Tensile Rupture (daN)
				30oC **	40oC **	
3x25 + 25	1,2	1,53	2,60	84	72	178
3x50 + 35	0,641	0,822	1,41	127	109	282
3x70 + 50	0,443	0,695	1,08	163	141	341
3x95 + 50	0,320	0,410	0,73	203	176	405

Current conduction capacity considering solar radiation of 1000 W/m2, without wind.

** Ambient Temperature*