

# Cable MTX-RA 15 kV



## Application

The Conduspar Line of Cables MTX-RA 15 kV is the most robust solution for an overhead distribution line with medium voltage. Self-sustaining multiplex insulated cables eliminate the risk of discharging and switching off due to contacts with the medium voltage overhead line. They are indicated for crossings of routes with high traffic, networks near to buildings, or simply in the use of the same high tension network with several nearby circuits.

## Construction

**Phase conductor:** aluminum wires 1350, stringing class 2, compact, with longitudinal humidity locking, acc. to NM 280.

**Conductor shielding:** semiconductive thermosetting compound.

**Insulation:** thermosetting compound of XLPE (reticular polyethylene), with coordinated, extruded and vulcanized thickness simultaneously with the semiconductive layers.

**Insulation shielding:** semiconductive thermosetting compound with ease cold extraction.

**Metallic shielding:** bare copper wiring crown, effective section of 6,5 mm<sup>2</sup>.

**Coverage:** thermoplastic compound of PE/ST7, resistant to weather, in black.

**Neutral for support:** aluminum cable with alloy 6201, acc. to 10298.

## Maximum Operating Temperatures

In continuous regime: 90°C

In overload: 130°C

In short circuit: 250°C

## Reference Standards

ABNT NBR 9024 - Self-sustaining multiplex insulated cables with extruded insulation of XLPE for voltages from 10 to 35 kV with coverage - Performance requirements.

ABNT NBR NM 280 - Conductors of insulated cables (IEC 60228, MOD).

ABNT NBR 10298 - Bare cables with alloy aluminum-magnesium-silicon, for overhead lines - Specification.

## Conditioning

In reels.

## Nominal Dimensions

Formation	Conductor Diameter	Cables with Neutral in Aluminum - CA							
		Insulation		Coverage		Neutral	Conductor	Wiring	Nominal
		Thickness (mm)	Diameter (mm)	Thickness (mm)	Diameter (mm)	Diameter (mm)	Bursting Load (daN)	Diameter (mm)	Weight (kg/km)
3x1x35+35	6,95	3,0	14,2	1,4	20,7	7,7	1090	42,1	1.325
3x1x35+50	6,95	3,0	14,2	1,4	20,7	9,2	1570	43,0	1.381
3x1x50+50	8,15	3,0	15,4	1,4	22,1	9,2	1570	45,5	1.466
3x1x70+70	9,65	3,0	16,9	1,5	23,8	10,6	1990	49,3	1.765
3x1x95+70	11,45	3,0	18,7	1,6	25,8	10,6	1990	52,9	2.075
3x1x120+70	12,95	3,0	20,2	1,6	27,4	10,6	1990	56,0	2.380
3x1x150+120	14,40	3,0	21,6	1,7	29,0	14,2	3600	61,0	2.860
3x1x185+120	16,15	3,0	23,4	1,7	31,0	14,2	3600	64,6	3.260
3x1x240+120	18,29	3,5	26,5	1,8	34,5	14,2	3600	70,9	3.800