Multiplex Cable 1 kV

Application

The Conduspar Line of Multiplex Cables 1 kV is suitable for secondary circuits of power distribution and consumer connection in low voltage.

Construction

Phase conductor: Aluminum wires 1350, stringing class 2, compact, acc. to NM 280.
Insulation: thermosetting compound of XLPE (reticular polyethylene), weather resistant.
Identificación:
1 phase: black
2 phases: black and gray
3 phases: black, grey and red
Neutral conductor:
Aluminum CA: aluminum wires 1350, hardness H19, normal round stringing.
Alloy aluminum CAL: aluminum wires with alloy 6201, hardness T81, normal round stringing, acc. to 10298.
Neutral conductor insulation: if requested, in XLPE in light blue.

Maximum Operating Temperatures

In continuous regime: 90°C
In overload: 130°C
In short circuit: 250°C

Reference Standards

ABNT NBR 8182 - Self-sustained multiplex power cables with extruded insulation of PE or XLPE, for voltages up to 0,6/1 kV - 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 rolls of 100 m or reels, for section up to 25 mm². For other constructions, in reels.

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Nominal Dimensions

Cables with Neutal in Aluminum- CA								
Formation	Conductor Phase Diameter (mm)	Insulation		Neutral Conductor - CA		Bursting Load (daN)	Wiring Diameter (mm)	Nominal Weight (kg/km)
		Thickness (mm)	Diameter (mm)	Wire Quantity x Diameter (mm)	Diameter (mm)			
1x1x10+10	3,7	1,2	6,1	7 x 1,36	4,2	195	10,6	71
1x1x16+16	4,7	1,2	7,1	7 x 1,70	5,2	300	12,7	106
1x1x25+25	5,9	1,4	8,7	7 x 2,06	6,3	446	15,5	160
2x1x10+10	3,7	1,2	6,1	7 x 1,36	4,2	195	12,2	168
2x1x16+16	4,7	1,2	7,1	7 x 1,70	5,2	300	14,4	255
2x1x25+25	5,9	1,4	8,7	7 x 2,06	6,3	446	17,6	356
3x1x10+10	3,7	1,2	6,1	7 x 1,36	4,2	195	14,0	157
3x1x16+16	4,7	1,2	7,1	7 x 1,70	5,2	300	16,4	230
3x1x25+25	5,9	1,4	8,7	7 x 2,06	6,3	446	20,1	350
3x1x35+35	7,0	1,6	10,2	7 x 2,50	7,7	614	23,7	487
3x1x50+50	8,1	1,6	11,3	7 x 3,00	9,2	836	26,7	640
3x1x70+70	9,5	1,8	13,1	7 x 3,45	10,6	1081	31,0	892
3x1x95+95	11,2	2,0	15,2	19 x 2,50	12,8	1613	36,2	1.225
3x1x120+120	12,6	2,0	16,6	19 x 2,90	14,8	2054	40,1	1.531
3x1x35+35	7,0	1,6	10,2	7 x 2,50	7,65	1092	23,7	490
3x1x35+50	7,0	1,6	10,2	7 x 3,00	9,18	1572	24,6	530
3x1x50+35	8,1	1,6	11,3	7 x 2,50	7,65	1092	25,8	625
3x1x50+50	8,1	1,6	11,3	7 x 3,00	9,18	1572	26,7	665
3x1x70+50	9,5	1,8	13,1	7 x 3,00	9,18	1572	30,1	895
3x1x70+70	9,5	1,8	13,1	7 x 3,45	10,56	1991	31,0	920
3x1x95+70	11,2	2,0	15,2	7 x 3,45	10,56	1991	34,9	1.120
3x1x120+70	12,6	2,0	16,6	7 x 3,45	10,56	1991	37,5	1.375