

SafetyMax Flex Cable 0,6/1 kV - Multiple

NBR 13248

90 °C



Flexible Conductor

Made of electrolytic bare copper wires, soft temper, stranding class 4 (1,50 a 6,00 mm²) and class 5 (10,00 a 120,00 mm²).

Insulation

HEPR 90 °C thermosetting polyolefin compound, nonhalogenated, with low smoke emission.

Identification

2 Conductors: Black, Light Blue.

3 Conductors: Black, Light Blue, White.

4 Conductors: Black, Light Blue, White, Red.

Note: other colors, on request.

Coverage

SHF1 - Non-halogenated thermoplastic polyolefin compound, with low smoke emission, with special characteristics regarding the non-spread and self-extinguishing of fire.

Maximum temperatures at the conductor

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

Implementation

SafetyMax cables are non-halogenated and have low smoke and toxic gas emission and non-fire propagation characteristics. Used in installations in places with high density of occupation of people and difficult conditions of escape, such as: Cinemas, Shopping Centers, Restaurants, Supermarkets, Hospitals, Train / Subway, Educational / Sports / Fair Establishments, as well as in areas of electronics and computing, as recommended by NBR 5410.

Applicable Standards

NBR 13248 - Non-halogenated, low smoke, bare insulated conductors and power cables for voltages up to 1 kV - Performance requirements

NBR NM 280 - Insulated cable conductors.

NBR 6245 - Determination of the Oxygen Index - test method.

NBR NM-IEC 60332-3 - Test methods for electric cables under fire conditions - Part 3: Vertical flame spread test on vertically mounted conductors or cables in bundles.

Construction Data*

Number of Conductors	Nominal crossection (mm ²)	Conductor Diameter (mm)	Thickness Insulation (mm)	Thickness Coverage (mm)	Outer Diameter (mm)	Approx mass (kg/km)	Standard Packaging	
							Roll (m)	Coil (m)
2	1,50	1,5	0,7	1,0	7,7	80,6	100	1000
	2,50	1,9	0,7	1,0	8,5	108,1	100	1000
	4,00	2,4	0,7	1,1	9,8	151,0	100	1000
	6,00	3,0	0,7	1,1	10,9	201,7	100	1000
	10,00	4,1	0,7	1,2	13,8	328,7	100	500
	16,00	5,2	0,7	1,2	16,1	482,6	----	500
	25,00	6,5	0,9	1,3	19,3	709,6	----	500
	35,00	7,7	0,9	1,4	21,9	960,0	----	500
	50,00	9,2	1,0	1,5	26,6	1400,7	----	500
	70,00	11,0	1,1	1,6	30,9	1937,8	----	500
3	95,00	12,6	1,1	1,7	34,3	2471,8	----	250
	120,00	14,2	1,2	1,8	38,4	3118,6	----	250
	1,50	1,5	0,7	1,0	8,1	95,3	100	1000
	2,50	1,9	0,7	1,0	9,1	130,7	100	1000
	4,00	2,4	0,7	1,1	10,4	186,8	100	1000
	6,00	3,0	0,7	1,1	11,6	251,8	100	1000
	10,00	4,1	0,7	1,2	14,7	412,6	----	500
	16,00	5,2	0,7	1,3	17,4	623,2	----	500
	25,00	6,5	0,9	1,4	20,8	922,6	----	500
	35,00	7,7	0,9	1,4	23,5	1241,6	----	500
4	50,00	9,2	1,0	1,6	28,6	1778,6	----	500
	70,00	11,0	1,1	1,7	33,2	2470,5	----	500
	95,00	12,6	1,1	1,8	37,0	3171,0	----	250
	120,00	14,2	1,2	1,9	41,2	4000,2	----	250
	1,50	1,5	0,7	1,0	8,8	117,0	100	1000
	2,50	1,9	0,7	1,1	10,1	166,2	100	1000
	4,00	2,4	0,7	1,1	11,4	233,7	100	1000
	6,00	3,0	0,7	1,2	12,9	322,1	100	1000
	10,00	4,1	0,7	1,2	16,2	521,7	----	500
	16,00	5,2	0,7	1,3	19,1	789,9	----	500
	25,00	6,5	0,9	1,4	22,9	1172,1	----	500
	35,00	7,7	0,9	1,5	26,1	1599,3	----	500
	50,00	9,2	1,0	1,6	31,5	2228,8	----	500
	70,00	11,0	1,1	1,8	36,8	3121,9	----	500
	95,00	12,6	1,1	1,9	40,9	4010,1	----	250
	120,00	14,2	1,2	2,0	45,6	5063,6	----	250

*Data subject to change without prior notice