



CONSTRUCTION

- 1 Conductor:** Bare electrolytic copper, soft annealed, flexible stranded: class 5.
- 2 Insulation:** Thermosetting compound (HEPR) – 90 °C.
- 3 Sheath:** Thermoplastic compound (LSHF), halogen-free, flame retardant (non-flame propagating), with low smoke and toxic gas emission SHF1.

IDENTIFICATION

- 1 Conductor:** Black insulation and black, light blue or green sheath.
- 2 Conductors:** Black and light blue cores, black sheath.
- 3 Conductors:** Black, white and light blue cores, black sheath.
- 4 Conductors:** Black, white, light blue and red cores, black sheath.

Multi-core cables with cross-section of 50 mm² or larger are supplied with black numbered cores, black sheath.

APPLICATION

The **ATOX FLEX 90 CABLES** are suitable for electrical installations in buildings where there is a large concentration of people (e.g.: airports, tunnels, commercial buildings such as hotels, cinemas, shopping centers, hospitals, residential buildings) and where, in case of fire, evacuation is long and difficult, areas classified as BD2, BD3 and BD4, according to NBR 5410 and NBR 13570.

PACKAGING

On wooden reels with length as specified by the customer.

STANDARDS

NBR 13248: Power and control cables and bare or insulated conductors without sheath, with extruded insulation and low smoke emission, for voltages up to 1kV.

Reference	Conductor		Insulation	Number of conductors	Outer sheath		Nominal net weight (kg/km)
	Nominal cross section (mm ²)	Nominal diameter (mm)			Nominal thickness (mm)	Nominal diameter (mm)	
4500.01.008	1,5	1,49	0,7	1	0,9	4,80	32,5
4500.02.008				2	1,0	8,50	93,5
4500.03.008				3	1,0	8,96	109
4500.04.008				4	1,0	9,76	134
4500.01.009	2,5	1,93		1	0,9	5,31	43,6
4500.02.009				2	1,0	9,40	124
4500.03.009				3	1,0	10,0	148
4500.04.009				4	1,1	10,9	183
4500.01.010	4	2,44		1	0,9	5,86	59,3
4500.02.010				2	1,1	10,5	167
4500.03.010				3	1,1	11,1	203
4500.04.010				4	1,1	12,2	255
4500.01.011	6	2,90		1	0,9	6,24	78,0
4500.02.011				2	1,1	11,2	214
4500.03.011				3	1,1	12,0	267
4500.04.011				4	1,2	13,1	337
4500.01.012	10	3,90	1	1,0	7,47	123	
4500.02.012			2	1,2	13,6	336	
4500.03.012			3	1,2	14,5	426	
4500.04.012			4	1,2	16,0	541	
4500.01.013	16	5,00	1	1,0	8,64	179	
4500.03.013			3	1,3	17,1	623	
4500.04.013			4	1,3	18,8	796	
4500.01.014	25	6,50	1	1,1	10,3	278	
4500.03.014			3	1,4	20,7	976	
4500.04.014			4	1,4	22,9	1250	
4500.01.015	35	7,70	1	1,1	11,6	371	
4500.03.015			3	1,4	23,3	1295	
4500.04.015			4	1,5	25,9	1670	
4500.01.016	50	9,40	1	1,2	13,3	512	
4500.03.016			3	1,5	27,1	1800	
4500.04.016			4	1,6	30,1	2320	
4500.01.017	70	10,5	1	1,2	15,4	710	
4500.03.017			3	1,6	31,2	2490	
4500.04.017			4	1,8	34,7	3220	
4500.01.018	95	12,1	1	1,3	17,3	923	
4500.03.018			3	1,8	35,1	3230	
4500.04.018			4	1,9	39,1	4195	
4500.01.019	120	13,8	1	1,4	19,3	1212	
4500.03.019			3	2,1	41,3	4230	
4500.04.019			4	2,2	45,7	5462	
4500.01.020	150	15,5	1	1,4	21,4	1484	
4500.03.020			3	2,3	46,3	5211	
4500.04.020			4	2,4	51,2	6729	
4500.01.021	185	16,8	1	1,5	23,4	1792	
4500.03.021			3	2,4	50,1	6231	
4500.04.021			4	2,6	55,7	8081	
4500.01.022	240	19,9	1	1,6	27,0	2402	
4500.03.022			3	2,6	57,7	8318	
4500.04.022			4	2,8	64,1	10796	
4500.01.023	300	21,4	1	1,7	28,9	2835	
4500.02.023			2	2,6	57,3	7917	
4500.03.023			3	2,8	61,7	9778	
4500.04.023			4	3,0	68,7	12701	
4500.01.024	400	25,1	2,0	1	1,8	32,7	3770
4500.01.025	500	28,0	2,2	1	1,9	36,2	4691