



CONSTRUCTION

- 1 Conductor:** Bare electrolytic copper, soft temper, with flexible stranding: class 4 for cables with cross section from 2.5 mm² to 6 mm². Class 5 for cables with cross section 1.5 mm² and above 6 mm².
- 2 Insulation:** Thermosetting ethylene-propylene rubber compound (HEPR) 90 °C.
- 3 Inner Sheath:** Flame-retardant polyvinyl chloride (PVC) compound – 90 °C, applicable for cables with nominal cross section above 10 mm².
- 4 Outer Sheath:** Flame-retardant polyvinyl chloride (PVC ST2) compound.

IDENTIFICATION

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

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

APPLICATION

The main construction feature of **EPROFLEX 90 CABLES** is the thermosetting insulation which, due to its high thermal stability, allows its use under the following conductor temperature conditions:

- Continuous duty 90 °C;
- Overload duty 130 °C;
- Short-circuit duty 250 °C.

With thermosetting insulation, this type of cable can operate with higher current carrying capacity, which allows the use of smaller cross sections when compared to cables with conventional thermoplastic insulation. The polyvinyl chloride (PVC) sheath, in addition to excellent abrasion resistance and low coefficient of friction, provides simple, fast and safe installation.

EPROFLEX 90 CABLES are used in power supply and distribution circuits of electrical energy at voltages up to 1 kV. They are designed for fixed installations, can be installed outdoors, embedded in ducts formed in building structures, on trays, racks, shelves or directly buried.

PACKAGING

Normally supplied on wooden reels.

SPECIFICATIONS

NBR-7286: Power cables with solid ethylene-propylene rubber (EPR) extruded insulation for voltages up to 1 kV.

CABO EPROFLEX 90 (0,6/1 kV)

Reference	Conductor		Insulation	Number of conductors	Outer sheath		Total weight (kg/km)
	Nominal cross section (mm ²)	Nominal diameter (mm)	Nominal thickness (mm)		Nominal thickness (mm)	Nominal external diameter (mm)	
1451.01.008	1,5	1,49	0,7	1	0,9	4,69	32,1
1451.02.008				2	1,0	7,78	88,3
1451.03.008				3	1,0	8,24	103
1451.04.008				4	1,0	8,99	124
1451.01.009	2,5	1,95		1	0,9	5,15	43,7
1451.02.009				2	1,0	8,70	120
1451.03.009				3	1,0	9,24	144
1451.04.009				4	1,1	10,3	179
1451.01.010	4	2,43		1	0,9	5,63	58,2
1451.02.010				2	1,1	9,86	164
1451.03.010				3	1,1	10,5	199
1451.04.010				4	1,1	11,5	244
1451.01.011	6	3,00		1	1,0	6,40	80,7
1451.02.011				2	1,1	11,0	217
1451.03.011				3	1,1	11,7	268
1451.04.011				4	1,2	13,0	338
1451.01.012	10	3,90	1	1,0	7,30	120	
1451.02.012			2	1,2	13,0	327	
1451.03.012			3	1,2	13,8	411	
1451.04.012			4	1,2	15,2	513	
1451.01.013	16	5,00	1	1,0	8,40	174	
1451.03.013			3	1,3	16,4	592	
1451.04.013			4	1,3	18,1	746	
1451.01.014	25	6,20	1	1,1	10,2	269	
1451.03.014			3	1,4	20,2	894	
1451.04.014			4	1,5	22,5	1.158	
1451.01.015	35	7,35	1	1,1	11,4	360	
1451.03.015			3	1,5	22,9	1.208	
1451.04.015			4	1,6	25,5	1.565	
1451.01.016	50	8,80	1	1,2	13,2	504	
1451.03.016			3	1,6	26,7	1.687	
1451.04.016			4	1,7	29,7	2.190	
1451.01.017	70	10,4	1	1,2	15,0	688	
1451.03.017			3	1,8	31,0	2.334	
1451.04.017			4	1,9	34,4	3.032	
1451.01.018	95	12,1	1	1,3	16,9	905	
1451.03.018			3	1,9	34,8	3.053	
1451.04.018			4	2,0	38,8	3.969	
1451.01.019	120	13,8	1	1,4	19,0	1.190	
1451.03.019			3	3,1	41,3	4.199	
1451.04.019			4	3,2	45,7	5.427	
1451.01.023	150	15,5	1	1,4	21,1	1.455	
1451.03.019			3	3,3	46,3	5.173	
1451.04.019			4	3,4	51,2	6.686	
1451.01.020	185	16,8	1	1,5	23,0	1.753	
1451.03.020			3	3,4	50,1	6.188	
1451.04.020			4	3,6	55,7	8.031	
1451.01.021	240	19,9	1	1,6	26,5	2.349	
1451.03.021			3	3,6	57,7	8.262	
1451.04.022			4	3,8	64,1	10.731	
1451.01.023	300	21,4	1,8	1	1,7	28,4	2.774
1451.01.024	400	25,1	2,0	1	1,8	32,7	3.762
1451.01.025	500	28,0	2,2	1	1,9	36,2	4.681