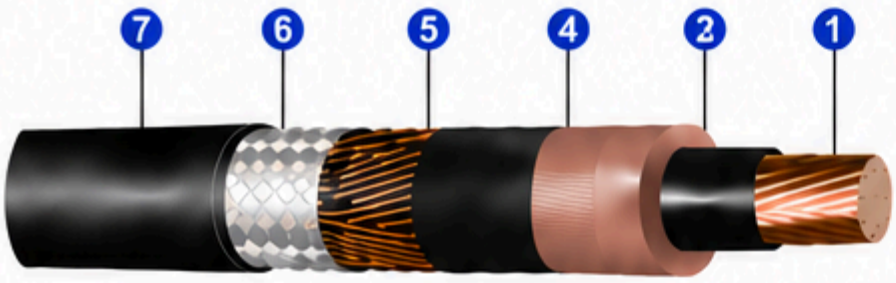
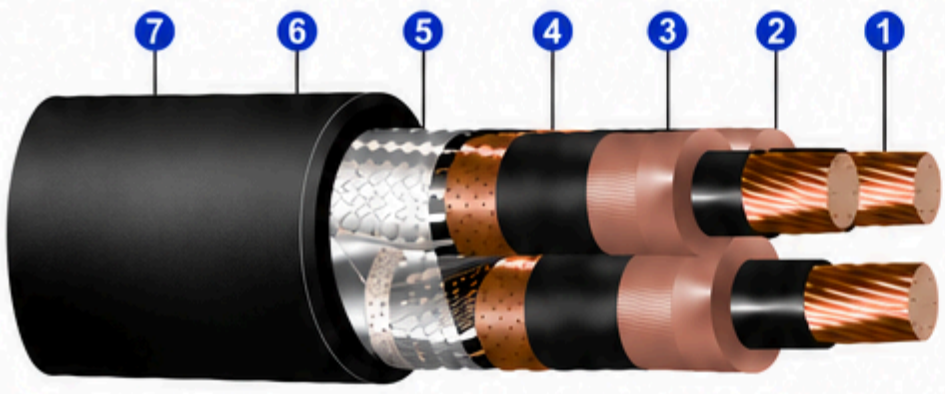
INDUSCABOS
CONDUTORES ELÉTRICOS
A escolha de quem conhece

# CABLE ATOX 90
# 12/20 kV
## FULL INSULATION

**Single**




**Three-core (Multiple)**




## CONSTRUCTION

1. **Conductor:** Bare electrolytic copper conductor, soft temper, compacted circular stranded (Class 2).
2. **Conductor Shield:** Semi-conducting thermoset compound.
3. **Insulation:** High modulus EPR 90 °C thermoset compound.
4. **Insulation Shield:** Semi-conducting insulation shield, easy to remove when cold.
5. **Metallic Shield:** Bare copper wires.
6. **Separator:** Non-hygroscopic polyester tape, applied helically covering 100% of the cable.
7. **Outer Sheath:** Halogen-free thermoplastic compound (SHF1), flame retardant, low smoke and low toxic gas emission.

## IDENTIFICATION

Cables with 3 conductors, cores identification by means of tapes in the colors white, blue and red.

## APPLICATION

The modern technology used in the manufacture of **Atox 90** cables provides an excellent technical and also very economical alternative for electrical installations in buildings where there is a large concentration of people (such as: airports, tunnels, hospitals, residential and commercial buildings such as: hotels, cinemas, shopping centers, theaters) and in case of fire, evacuation of the place is long and difficult (areas classified as BD2, BD3 and BD4, according to ABNT NBR 5410 and ABNT NBR 13570). They can be installed outdoors, in conduits, troughs, trays or directly buried.

## PACKAGING

They are normally supplied on wooden drums.

## STANDARDS

**ABNT NBR 16132**

Power cables, halogen-free, low smoke emission, insulated, with sheath, for rated voltages from 3 kV to 35 kV – Performance requirements.

### CABLE ATOX 90 (12/20 kV)

| Reference | Conductor | | Insulation | | Number of conductors | Outer Sheath | | Total Weight (kg/km) |
|---|---|---|---|---|---|---|---|---|
| | Nominal Cross Section (mm²) | Nominal Diameter (mm) | Nominal Thickness (mm) | Nominal Diameter (mm) | | Nominal Thickness (mm) | Nominal Diameter (mm) | |
| 3731.01.015 | 35 | 7,10 | 5,5 | 19,3 | 1 | 1,6 | 25,2 | 947 |
| 3731.03.015 | | | | | 3 | 2,5 | 54,8 | 3.741 |
| 3731.01.016 | 50 | 8,30 | | 20,5 | 1 | 1,6 | 26,2 | 1.087 |
| 3731.03.016 | | | | | 3 | 2,6 | 57,2 | 4.260 |
| 3731.01.017 | 70 | 9,60 | | 21,8 | 1 | 1,7 | 27,9 | 1.341 |
| 3731.03.017 | | | | | 3 | 2,7 | 60,5 | 5.121 |
| 3731.01.018 | 95 | 11,3 | | 23,5 | 1 | 1,7 | 29,6 | 1.610 |
| 3731.03.018 | | | | | 3 | 2,9 | 64,7 | 6.128 |
| 3731.01.019 | 120 | 12,7 | | 24,9 | 1 | 1,8 | 31,2 | 1.886 |
| 3731.03.019 | | | | | 3 | 3,0 | 67,9 | 7.062 |
| 3731.01.020 | 150 | 13,8 | | 26,0 | 1 | 1,8 | 32,3 | 2.165 |
| 3731.03.020 | | | | | 3 | 3,1 | 70,9 | 8.097 |
| 3731.01.021 | 185 | 15,5 | | 27,7 | 1 | 1,9 | 34,2 | 2.556 |
| 3731.03.021 | | | | | 3 | 3,2 | 74,7 | 9.421 |
| 3731.01.022 | 240 | 18,4 | | 30,6 | 1 | 2,0 | 36,9 | 3.158 |
| 3731.03.022 | | | | | 3 | 3,4 | 80,5 | 11.503 |
| 3731.01.023 | 300 | 20,5 | | 32,7 | 1 | 2,0 | 39,4 | 3.779 |
| 3731.03.023 | | | | | 3 | 3,6 | 86,3 | 13.718 |
| 3731.01.024 | 400 | 23,3 | | 35,5 | 1 | 2,1 | 42,4 | 4.627 |
| 3731.03.024 | | | | | 3 | 3,8 | 92,8 | 16.618 |
| 3731.03.025 | 500 | 26,4 | | 38,6 | 3 | 4,0 | 99,9 | 20.564 |

Nominal values, subject to manufacturing tolerance.