

## CONDUCTORS

The commonly used conductors materials are copper and aluminum meeting the requirements of IEC 60228.

Theoretical characteristics of copper and aluminum are as follows :

	Annealed Copper	Annealed Aluminum
Specific Gravity (kg/dm <sup>3</sup> )	8.9	2.7
Resistivity at 20°C (Ohm.mm <sup>2</sup> )	$17.241 \times 10^{-3}$	$28.264 \times 10^{-3}$
Breaking Load (daN/mm <sup>2</sup> )	23 to 25	12 to 15
Elongation at Break (%)	20 to 40	1 to 4

Equivalent standardized cross sectional area at equal voltage drop:

Copper (mm <sup>2</sup> )	Aluminum (mm <sup>2</sup> )
6	10
10	16
16	25
25	35
35	50
50	70
70	95
95	150
120	185
150	240
185	300