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Troubleshooting trailer lighting (LS 3.4) | Specific electrical resistance



The specific electrical resistance is a constant characteristic of a material. It is the resistance of a conductor of 1 m in length and 1 mm² cross-sectional area. It has the symbol ρ in formulas and is specified in the unit

$$\frac{\Omega \cdot \text{mm}^2}{\text{m}}$$

The resistance R of a conductor with specific resistance ρ , length l in m and cross-sectional area A in mm² can be calculated using the following formula.

$$R = \frac{l \cdot \rho}{A}$$

Electrical conductivity

Instead of the specific resistance, electrical engineering often uses the specific electrical conductivity χ . It is the inverse quantity of the specific resistance and is specified in the unit

$$\frac{\text{m}}{\Omega \cdot \text{mm}^2}$$

Material	ρ	χ
Silver	0,0167	60
Copper	0,0178	56
Aluminum	0,0278	36

Specific resistances and the conductivity of different materials



Example calculation

What is the resistance R of a 30 m long copper conductor with an internal diameter of 1.5 mm?

$$A = \frac{\pi \cdot d^2}{4} \approx \frac{3,14 \cdot 1,5^2}{4} \text{ mm}^2 \approx 1,77 \text{ mm}^2$$

$$R = \frac{l \cdot \rho}{A} = \frac{30 \cdot 0,0178}{1,77} \approx 0,3 \Omega$$

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