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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 mm<sup>2</sup> cross-sectional area. It has the symbol  $\rho$  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  $\rho$ , length  $l$  in m and cross-sectional area  $A$  in mm<sup>2</sup> 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  $\chi$ . It is the inverse quantity of the specific resistance and is specified in the unit

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

Material	$\rho$	$\chi$
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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