

bedra electronic wire BL5 out of a tin-bronze alloy for various applications (ribbon, heating conductors / resistance wire, special cables, bobbins, connectors, etc.).

Standardization and composition

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|---------------------------------|--|
| Norm | CuSn5 |
| DIN CEN/TS 13388:2013-05 | CW 451 K |
| CDA UNS | 510 |
| Alloy composition | Average values according to standard (%) |
| Cu | balance |
| Sn | 5.0 |
| P | 0.10 |
| Others | max. 0.5 |

Physical properties

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|---|-----------------|
| Density (kg/dm³) | 8.8 |
| Melting range (°C) | 910 - 1040 |
| E-Modulus (kN/mm²) | 115 |
| Thermal conductivity (W / m x K) | 75 |
| Coefficient of linear mean expansion (10-6/K) | 18.5 |
| Electric conductivity (m / Ω x mm²) | 9.5 - 10.5 |
| Electric conductivity (IACS %) | ~ 16 - 18 |
| Resistivity (Ω x mm² / m) | 0.0952 - 0.1053 |