

bedra electronic wire CuNi3Si out of a special alloy for various applications (ribbons, heating conductors / resistance wire, special cables, bobbins, connectors, etc.).

## Standardization and composition

<b>Norm</b>	CuNi3Si
<b>DIN</b>	17666
<b>EN DIN 12166</b>	CW 112C
<b>Alloy composition</b>	Average values according to standard (%)
<b>Cu</b>	balance
<b>Ni</b>	3.8
<b>Si</b>	1.0
<b>Others</b>	max. 0.5

## Physical properties

<b>Density (kg/dm<sup>3</sup>)</b>	8.8
<b>Melting range (°C)</b>	1030 - 1050
<b>E-Modulus (kN/mm<sup>2</sup>)</b>	143
<b>Thermal conductivity (W / m x K)</b>	59 - 120
<b>Coefficient of linear mean expansion (10-6/K)</b>	16.0
<b>Electric conductivity (m / Ω x mm<sup>2</sup>)</b>	ausgehärtet 16 - 19
<b>Electric conductivity (IACS %)</b>	~ 27 - 32
<b>Resistivity (Ω x mm<sup>2</sup> / m)</b>	0.0952 - 0.1053