

bedra electronic wire Ns18 out of a nickel silver alloy for various applications (ribbons, heating conductors / resistance wire, special cables, bobbins, connectors, etc.).

## Standardization and composition

<b>Norm</b>	CuNi18Zn20
<b>DIN</b>	17663
<b>EN DIN 12166</b>	CW 409
<b>CDA UNS</b>	764
<b>Alloy composition</b>	Average values according to standard (%)
<b>Cu</b>	62.0
<b>Zn</b>	balance
<b>Ni</b>	18.0
<b>Mn</b>	0.25
<b>Others</b>	max. 0.5

## Physical properties

<b>Density (kg/dm<sup>3</sup>)</b>	8.7
<b>Melting range (°C)</b>	1060 - 1110
<b>E-Modulus (kN/mm<sup>2</sup>)</b>	135
<b>Thermal conductivity (W / m x K)</b>	33
<b>Coefficient of linear mean expansion (10<sup>-6</sup>/K)</b>	17.7
<b>Electric conductivity (m / Ω x mm<sup>2</sup>)</b>	3.3 - 3.7
<b>Electric conductivity (IACS %)</b>	~ 6
<b>Resistivity (Ω x mm<sup>2</sup> / m)</b>	0.2703 - 0.3030