

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

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

Physical properties

Density (kg/dm³)	8.8
Melting range (°C)	1030 - 1050
E-Modulus (kN/mm²)	143
Thermal conductivity (W / m x K)	59 - 120
Coefficient of linear mean expansion (10⁻⁶/K)	16.0
Electric conductivity (m / Ω x mm²)	ausgehärtet 16 - 19
Electric conductivity (IACS %)	~ 27 - 32
Resistivity (Ω x mm² / m)	0.0952 - 0.1053