

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

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

Physical properties

Density (kg/dm³)	8.7
Melting range (°C)	1060 - 1110
E-Modulus (kN/mm²)	135
Thermal conductivity (W / m x K)	33
Coefficient of linear mean expansion (10⁻⁶/K)	17.7
Electric conductivity (m / Ω x mm²)	3.3 - 3.7
Electric conductivity (IACS %)	~ 6
Resistivity (Ω x mm² / m)	0.2703 - 0.3030