

OPTICAL WIRE (TIN BRONZE)

Tin bronze optical wires from bedra make an impression by a flawless surface finish which is required by all renowned optical manufacturers.

Fields of application

Temple

Physical properties

Density (kg/dm³)	8.8
Melting range (°C)	910 - 1040
E-Modulus (kN/mm²)	115
Thermal conductivity (W/m*K)	75
Coefficient of thermal expansion (10⁻⁶/K)	18.5
Electrical conductivity (MS/m)	7

Standardization and composition

Standard designation	CuSn6
DIN	17662
Material no.	2.1022
DIN EN 12166	CW452K
ASTM UNS	C51900
Cu	balance
Sn	6
P	0.2
Others	max. 0.5

Other tech. values

Annealing temp. (°C)	380 - 450
Hardness annealed (HV)	90
Hardness 80% reduced (HV)	290

Delivery program

Profiles	Round wires / square profiles / flat wires / special profiles
Surface coatings	Several electroplated coatings, upon request
Make-ups	Spools / coils / rods / drums