Brass (Copper-Zinc)  
MD02

**Material Designation**  
DMA Symbol: MD02  
DIN-EN Symbol: (CuZn2)

**Nominal Composition (mass content in %)**  
- Cu: 98.0
- Zn: Balance
- Others: < 0.2

**About the Alloy**  
MD02 - belonging to the tombak class - is a low-alloyed copper alloy. MD02 is highly suitable for cold forming as well as hard and soft soldering. Depending on the processing, it is easily weldable and resistant to atmospheric influences, fresh water, neutral and alkaline saline solutions and organic compounds.

**Physical Properties**  
- Electrical conductivity: 36.5 MS/m  
- Thermal conductivity: 250 W/(m·K)  
- Thermal expansion coefficient**: 17.5 × 10⁻⁶/K  
- Density: 8.9 g/cm³  
- Modulus of elasticity: 110 GPa

**Mechanical Properties**  
- Tensile strength soft N/mm²: 230 - 290  
- Elongation soft A100 in %: > 30  
- Tensile strength hard N/mm²: 400 - 480

**Available Dimensions**  
- Rolled, modified square wire: 5.1 mm  
- Round wire: 1.2 - 6.2 mm

**Typical Applications**  
- Electrical engineering, electronics  
- Connecting and fixing elements  
- Rivets, extrusion parts  
- Fashion jewelry, watchmaking industry  
- Arts and crafts

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