

**19 x 0.61mm (0.71mm king) Nickel Manganese 2% Stranded Wire**

**Nickel 212**

Scott Precision Wire concentric stranded Nickel 212 wire is specially manufactured to provide a high quality, consistent cold lead wire. The addition of Manganese strengthens the wire at high temperatures.

**Resistance**            0.019 – 0.026 Ω/m

**Construction**

Centre	1 x 0.71mm
Layer 1	6 x 0.61mm Right Hand Lay
Layer 2	12 x 0.61mm Left Hand Lay

**Nickel Manganese 212 Physical and Mechanical Properties**

	Units	
Maximum continuous operating temperature in air	°C	650
Nominal composition	%	Ni 98 Mn 2
Density at 20°C	g/cm <sup>3</sup>	8.81
Resistivity at 20°C	μΩcm	10.9
Temperature Coefficient of Resistance 20°C - 100°C	1/K	0.004
Coefficient of Thermal Expansion 20°C - 400°C	1/K	14.3 x 10 <sup>-6</sup>
Thermal conductivity at 20°C	W/mK	61
Specific heat capacity at 20°C	kJ/kgK	0.50
Melting point (approx.)	°C	1450

The figures given in these tables represent nominal or typical values.

*Information contained within this technical data sheet is based upon the general experience of Scott Precision Wire Ltd and is believed to be correct at the time of issue. No warranty is given or is to be implied from the details above. Customers are advised to carry out independent tests in order to determine the suitability of any Scott Precision Wire Ltd product for an application.*