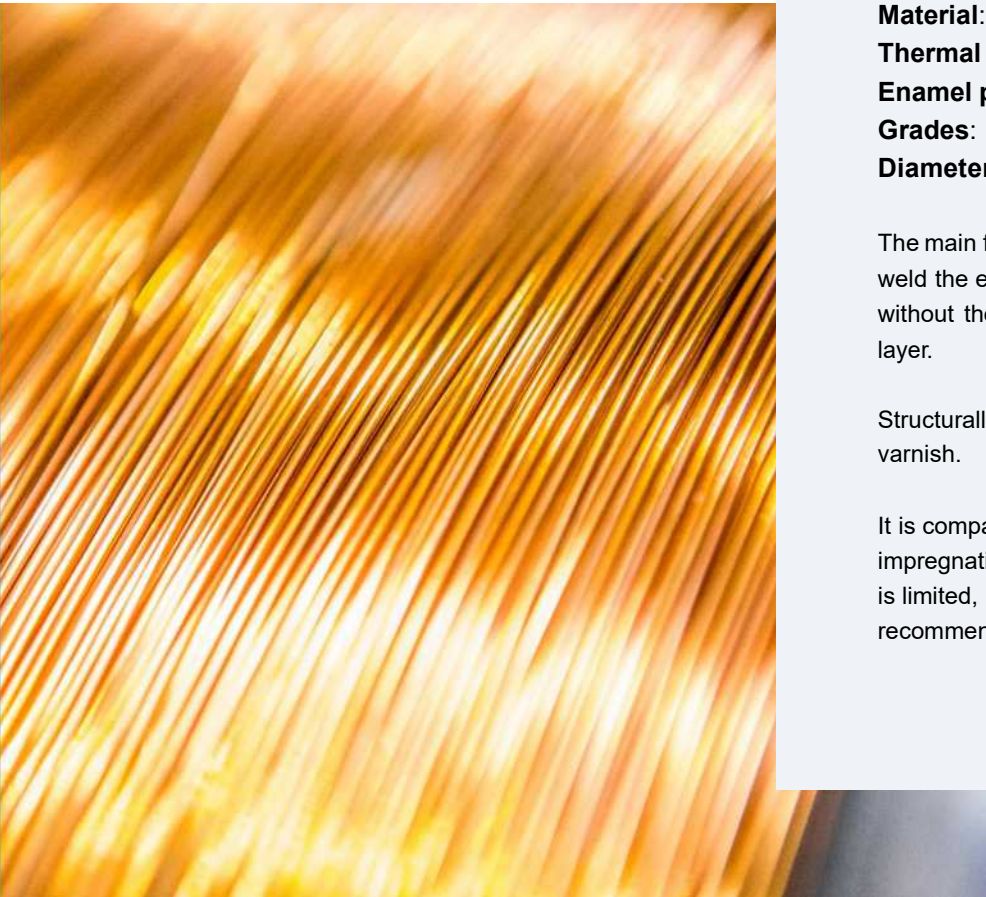


Product

Weldable round copper H-180



Features

Section: Round

Material: Copper

Thermal class: 180

Enamel polymer: PU

Grades: 1-2

Diameters: 0,10-2,00 mm

The main feature of this class H wire is the ability to weld the end at tin bath temperatures from 375°C, without the need to mechanically remove the varnish layer.

Structurally it consists of a single POLYURETHANE varnish.

It is compatible with commercial encapsulation and impregnation systems, although chemical resistance is limited, meaning compatibility testing is recommended for confirmation.



Application

Application: small motors and transformers, magnetic coils, relays and contactors



Standard

IEC / DIN EN 60317-51
NEMA MW82-C
UL E93551



Range & grade

Grades: 1-2
Diameters: 0,10-2,00 mm

Technical Specifications

Mechanical Properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø0,236mm)
Conductor diameter	mm	4.1	-	0,232 - 0,240	0,25
Overall diameter	mm	4.3	-	0,253 - 0,267	0,25
Elongation	%	6	-	25	32
Springiness	grades	7.1	-	49	46
Flexibility and adherence	-	8	-	1xØ	10% 1xØ
Resistance to abrasion	N	11	-	-	-
Sliding force	gr	-	-	-	210gr
Peel test	turns	8	-	-	-

Electrical Properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø0,236mm)
Breakdown voltage	V	13.2	-	2100	5000
Electrical Conductivity	MS/m	5	-	≥58	-
Continuity of insulation	Faults	14	30m 500V 6µA	25	0F

The information in this data sheet is based on information provided by our supplier. It does not represent any specification or agreement with respect to conditions or properties. The values indicated are standard values. Deviations from these values due to production and application cannot be excluded. The information in this data sheet is intended for use by experts at their own discretion and risk. We do not guarantee results, nor do we accept responsibility for the specifications stated or the results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed in the safety data sheet. Last updated: 14/1/20

Thermal Properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø0,236mm)
Temperature index	°C	15	-	180	-
Dielectric dissipation factor (tg δ)	°C	-	-	-	180
Cut-through	°C	10	230°C 1 min. heating + 2 with 2,20 N	OK	OK
Heat shock	-	9	200° 30min	Ø 0.400	Ø 0.236

Chemical properties

Parameter	Unit	Point IEC	Test conditions	IEC value	Actual value (Ø0,236mm)
Solderability	°C	17	390°C	<2seg	375°C <1seg
Resistance to transformer oil	-	20	-	-	No
Resistance to refrigerants	-	16	-	-	No
Resistance to solvents	-	-	-	>H	3H
Heat bonding	-	-	-	-	-

[1] Due to the variety of individual applications, we cannot make any generally binding commitments regarding compatibility. We recommend testing compatibility with the materials used.



For further information: **SEEER**

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