



Working in High Frequency

High frequency applications are increasingly widespread in the world of power electronics, their use greatly reduces dimensions.

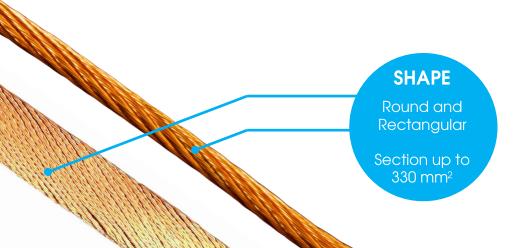
Litz cables (or **Litz wires**) fulfill this purpose perfectly. They consist of many strands of thin enamelled round wires, which are twisted and intertwined with each other.

The intertwining of hundreds or thousands of elementary conductors isolated from each other so this eliminates the skin effect and to work very well at frequencies up to 1 MHz.

Avoid the skin effect!

The concept behind the Litz cable is very simple: to constitute a stranded wire in which the fundamental units are enamelled wires with a diameter smaller than the skin effect.

In this way Litz wire will not suffer from this phenomenon and **the** losses in high frequency will be significantly reduced.



OUR SOLUTIONS

Individual	Material	Spec. Resistance (Ωmm²/m)	•	
wire	Copper	0.0171	8890	≥ 0.05
	Aluminium	0.0278	2700	≥ 0.2
	Name	Enamel type	Thermal class (°C)	Solderability
Insulation type for the individual	Solvest F	PU	155	yes
	Solvest H	PU	180	yes
wires	Thervest/Adhexal	PEI+PAI	200	-
		Enamel build: Grade	e 1, Grade 2, Grade 3	

External insulation type

Туре	Thickness (µm)
Polyester	23
Nomex T410	50
Polyimide	25 - 38 - 50
Conductofol	90
Mica-Glass	100
And much more!	-



Silicone extrusion after taping is possible

All our products are developed according to customer specifications in compliance with **IEC** and **UL** standards

Range of	Range of frequency (kHz)		Nominal diameter of single wire (mr	
From	Up to	From	Down to	
0.06	1	0.400	0.254	
1	10	0.254	0.200	
10	20	0.200	0.127	
20	50	0.127	0.102	
50	100	0.102	0.079	
100	200	0.079	0.063	
200	350	0.063	0.050	
350	850	0.050	0.040	
850	1400	0.040	0.030	
1400	3000	0.030	0.020	