

Litz-Wire comparison

Product-name:	LITZ-WIRE 460x002x12	LITZ-WIRE 200x003x40	LITZ-WIRE 35x004x40	LITZ-WIRE 10x005x40	LITZ-WIRE 20x007x40	LITZ-WIRE 90x01x36	LITZ-WIRE 15x01x192
Number of strands:	460	200	35	10	20	90	15
Diameter of single strands:	0,02 mm	0,03 mm	0,04 mm	0,05 mm	0,07 mm	0,1 mm	0,1 mm
Braiding	silk	silk	silk	silk	silk	none	none
equiv. Cross-sectional area:	0,145 mm ²	0,141 mm ²	0,044 mm ²	0,020 mm ²	0,077 mm ²	0,707 mm ²	0,118 mm ²
equiv. Wire-Diameter: (single wire with equal cross-sectional area)	0,43 mm	0,42 mm	0,24 mm	0,16 mm	0,31 mm	0,95 mm	0,39 mm
specific resistance:	0,12 Ohm/m	0,12 Ohm/m	0,39 Ohm/m	0,87 Ohm/m	0,22 Ohm/m	0,02 Ohm/m	0,14 Ohm/m
relative surface area:	28,9 mm ² /mm	18,8 mm ² /mm	4,4 mm ² /mm	1,6 mm ² /mm	4,4 mm ² /mm	28,3 mm ² /mm	4,7 mm ² /mm
equiv. Wire diameter: (single wire with equal surface area)	9,2 mm	6,0 mm	1,4 mm	0,5 mm	1,4 mm	9,0 mm	1,5 mm
useful for:	MW-Spiderweb/ Honeycomb-coils with extr. high Q- factor	MW-Spiderweb/ Honeycomb-coils with very high Q- factor	LW-/MW- Spiderweb/ Honeycomb- coils with high Q-factor	LW- Spiderweb/ Honeycomb- coils	MW- Spiderweb/ Honeycomb- coils	MW-Frame- Antenna-coils with very high Q-factor	LW-Frame- Antenna-coils with very high Q-factor
max. theoretical Q-factor:	600			80	280		
...at frequency:	1 Mhz			200 kHz	1 Mhz		
with...	Spider-web coil			Spider-web coil	Spider-web coil		
@ inductivity L=...	180 µH			2,25 mH	260 µH		