ENAMELLED COPPER WIRES DN1E

- Single-coated enamelled copper coil wires DN1E in class +200°C. This product is produced in thirty eight, the most popular cross-sections, in the range from Ø 0,15mm/SWG38 till Ø2,50mm/SWG12.

- The wires are winded evenly and compactly, on 250g and 500g reels and foiled additionally with transparent shrink-wrapped cover, ensuring perfect visual effect, protecting against getting dirty & dust during their storage and preventing oxidation of outer insulated cover.

- The wires, used by us, are produced in Germany, being the top quality and classified as EI/AIW – Class Grade 1. They are produced according to IEC 60317-13 norm in RoHS standard.

- The wires are produced from highest purity copper, isolated by single coated enamel at render-set structure based on polyesteramide with outer polyamidoamide coat. So the wires produced in this way are extremely solid and they are of excellent mechanical resistance to abrasion due to very low friction coefficient. It makes these wires to be used in modern high-speed winding machines, they are of perfect resistance to all kind of thermal overload as well as to such chemicals as solvents, thinners, lyes, saturated substances, hermetic masses and cooling agents. These wires can be used to all applications of above-average resistance requirements, in particular of different types of coils, hoke winding, electric motors, transformers, power tools, generators, refrigeration units and to different services & hobby works.

- The application of insulating coat, having polyesterimid and polyamidoimid in its composition, ensures the exceptional softness, overload resistance, thermal and mechanical stability and makes possible the considerable increase of breakdown tension till level of > 5kV.

Parameter	Properties
IEC/UL Standard	EI /AIW
PN-EN/IEC Norm	60317-13
IEC Research Norm	60851.1...6
NEMA Norm	MW 35-C
Insulator - basic layer	Poliesterimid/poliester mod Theic
Insulator – outer layer	Poliamidimid
Pencil hardness	6H
Lengtheness	> 30%
Temperature range	- 65°C ÷ + 200°C
Temperature indicator	200
Heat stroke 1d/30min	200°C
Therm relief	> 350°C
Insulation elasticity	10% 1d
Tangent delta	> 185
Breakdown tension	> 2 x IEC
Solvent resistance	very good
Transformer oil resistance	very good
Cooling factors / freon resistance	very good
Big speed winding resistance	very good
Vibration resistance	very good

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II.Single Enamelled Copper Wires Diameter according to Solid Wire Group.

Diameter of the vein	SWG	Diameter of the vein	SWG
0,15mm	38	1,10mm	19
0,20mm	36	1,15mm	18
0,25mm	33	1,20mm	18
0,30mm	31	1,25mm	18
0,35mm	29	1,30mm	18
0,40mm	27	1,35mm	17
0,45mm	26	1,40mm	17
0,50mm	25	1,45mm	17
0,55mm	24	1,50mm	17
0,60mm	24	1,55mm	16
0,65mm	23	1,60mm	16
0,70mm	22	1,65mm	16
0,75mm	22	1,70mm	16
0,80mm	21	1,75mm	15
0,85mm	21	1,80mm	15
0,90mm	20	1,85mm	15
0,95mm	20	1,90mm	15
1,00mm	19	2,00mm	14
1,05mm	19	2,50mm	12

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III.Packaging and Length of DN1E Wires

The diameter of the vein	Weight in Kg single spool	Number on the spool	The diameter of the vein	Weight in Kg single spool	Number on the spool
∅ 0,15mm	250 grams	1480 mb	∅ 0,15mm	500 grams	2960 mb
∅ 0,20mm	250 grams	849 mb	∅ 0,20mm	500 grams	1698 mb
∅ 0,25mm	250 grams	500 mb	∅ 0,25mm	500 grams	1000 mb
∅ 0,30mm	250 grams	386 mb	∅ 0,30mm	500 grams	772 mb
∅ 0,35mm	250 grams	270 mb	∅ 0,35mm	500 grams	540 mb
∅ 0,40mm	250 grams	230 mb	∅ 0,40mm	500 grams	460 mb
∅ 0,45mm	250 grams	170 mb	∅ 0,45mm	500 grams	340 mb
∅ 0,50mm	250 gram	140 mb	∅ 0,50mm	500 grams	280 mb
∅ 0,55mm	250 grams	110 mb	∅ 0,55mm	500 grams	220 mb
∅ 0,60mm	250 grams	98 mb	∅ 0,60mm	500 grams	196 mb
∅ 0,65mm	250 grams	87 mb	∅ 0,65mm	500 grams	174 mb
∅ 0,70mm	250 grams	73 mb	∅ 0,70mm	500 grams	146 mb
∅ 0,75mm	250 grams	65 mb	∅ 0,75mm	500 grams	130 mb
∅ 0,80mm	250 grams	56 mb	∅ 0,80mm	500 grams	112 mb
∅ 0,85mm	250 grams	47 mb	∅ 0,85mm	500 grams	95 mb
∅ 0,90mm	250 grams	45 mb	∅ 0,90mm	500 grams	90 mb
∅ 0,95mm	250 grams	39 mb	∅ 0,95mm	500 grams	77 mb
∅ 1,00mm	250 grams	36 mb	∅ 1,00mm	500 grams	72 mb
∅ 1,05mm	250 grams	30 mb	∅ 1,05mm	500 grams	61 mb

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III.Packaging and Length of DN1E Wires

ø 1,05mm	250 grams	30 mb	ø 1,05mm	500 grams	61 mb
ø 1,10mm	250 grams	27,5 mb	ø 1,10mm	500 grams	55 mb
ø 1,15mm	250 grams	26 mb	ø 1,15mm	500 grams	52 mb
ø 1,20mm	250 grams	24 mb	ø 1,20mm	500 grams	48 mb
ø 1,25mm	250 grams	22 mb	ø 1,25mm	500 grams	44 mb
ø 1,30mm	250 grams	21 mb	ø 1,30mm	500 grams	42 mb
ø 1,35mm	250 grams	20 mb	ø 1,35mm	500 grams	39 mb
ø 1,40mm	250 grams	18 mb	ø 1,40mm	500 grams	36 mb
ø 1,45mm	250 grams	17 mb	ø 1,45mm	500 grams	34 mb
ø 1,50mm	250 grams	16 mb	ø 1,50mm	500 grams	32 mb
ø 1,55mm	250 grams	14,5 mb	ø 1,55mm	500 grams	30 mb
ø 1,60mm	250 grams	13,5 mb	ø 1,60mm	500 grams	27 mb
ø 1,65mm	250 grams	13 mb	ø 1,65mm	500 grams	26 mb
ø 1,70mm	250 grams	12,3 mb	ø 1,70mm	500 grams	24,6 mb
ø 1,75mm	250 grams	11,3 mb	ø 1,75mm	500 grams	22,8 mb
ø 1,80mm	250 grams	10,5 mb	ø 1,80mm	500 grams	21 mb
ø 1,85mm	250 grams	10,2 mb	ø 1,85mm	500 grams	20,3 mb
ø 1,90mm	250 grams	9,8 mb	ø 1,90mm	500 grams	19,6 mb
ø 2,00mm	250 grams	8,8 mb	ø 2,00mm	500 grams	17,6 mb
ø 2,50mm	250 grams	5,7 mb	ø 2,50mm	500 grams	11,4 mb