

# **product catalogue wires**

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# structure

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## foreword

The following information is meant as a guideline for you.

Of course, our flexibility also allows us to produce according to your individual requirements.

We are looking forward to your request.

## materials

bare copper		
copper wire	Cu-ETP1 ETP	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW003A C11040	(acc. to DIN EN 13602) (UNS number)
conductivity	min. 58,5 m/s	
density	8,925 kg/dm <sup>3</sup>	
bare oxigen-free copper		
copper wire	Cu-OF1 OFE	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW007A C10100	(acc. to DIN EN 13602) (UNS number)
conductivity	min. 58,5 m/s	
density	8,925 kg/dm <sup>3</sup>	
tin-plated copper		
copper wire	Cu-ETP1 ETP	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW003A C 11040	(acc. to DIN EN 13602) (UNS number)
tin	SN 99,90	(acc. to DIN 1704)
coating thickness	acc. to DIN EN 13602	or acc. to customer requirement
conductivity	min. 58,5 m/s	
density	8,925 kg/dm <sup>3</sup>	

## reels

reel-type	DIN / norm	flange-Ø in mm	core-Ø in mm	mount-Ø in mm	filling weight in kg (appr.)
<b>plastic-reels</b>					
100 K	46399	100	63	16	1,6
125 K	46399	125	80	16	3,5
160 K	46399	160	100	22	7,5
200 K	46399	200	80	22/36	14
250 K	46399	250	160	22/127	18-20
<b>aluminum-reels</b>					
250 A	46397	250	150	127	20-25
<b>iron-reels</b>					
355 E	46397	355	224	127	60
560 E	46397	560	315	127	265
630 E	46397	630	355	127	380

# products

wires according to DIN EN 13602

wire Ø	cross section	bare wires		tin-plated wires	
		electric resistance	elongation	electric resistance	elongation
0,05 mm	0,002 mm <sup>2</sup>	8703,866 Ω/km	10%	8780,260 Ω/km	7%
0,07 mm	0,004 mm <sup>2</sup>	4440,748 Ω/km		4479,724 Ω/km	
0,10 mm	0,008 mm <sup>2</sup>	2175,966 Ω/km	15%	2195,065 Ω/km	13%
0,12 mm	0,011 mm <sup>2</sup>	1511,088 Ω/km		1524,351 Ω/km	
0,14 mm	0,015 mm <sup>2</sup>	1110,187 Ω/km		1119,931 Ω/km	
0,15 mm	0,018 mm <sup>2</sup>	967,096 Ω/km		975,584 Ω/km	
0,16 mm	0,020 mm <sup>2</sup>	849,987 Ω/km		857,447 Ω/km	
0,18 mm	0,025 mm <sup>2</sup>	671,595 Ω/km	21%	677,489 Ω/km	19%
0,20 mm	0,031 mm <sup>2</sup>	543,992 Ω/km		548,766 Ω/km	
0,22 mm	0,038 mm <sup>2</sup>	449,580 Ω/km		453,526 Ω/km	
0,23 mm	0,042 mm <sup>2</sup>	411,336 Ω/km		414,946 Ω/km	
0,25 mm	0,049 mm <sup>2</sup>	348,155 Ω/km		351,210 Ω/km	
0,26 mm	0,053 mm <sup>2</sup>	321,889 Ω/km		324,714 Ω/km	
0,28 mm	0,062 mm <sup>2</sup>	277,547 Ω/km		279,983 Ω/km	
0,30 mm	0,071 mm <sup>2</sup>	241,774 Ω/km	243,895 Ω/km		
0,35 mm	0,096 mm <sup>2</sup>	177,630 Ω/km	22%	179,189 Ω/km	20%
0,40 mm	0,126 mm <sup>2</sup>	135,998 Ω/km		137,192 Ω/km	
0,50 mm	0,196 mm <sup>2</sup>	87,039 Ω/km		87,803 Ω/km	
0,60 mm	0,283 mm <sup>2</sup>	60,444 Ω/km	24%	60,974 Ω/km	22%
0,80 mm	0,503 mm <sup>2</sup>	33,999 Ω/km		34,298 Ω/km	
1,00 mm	0,785 mm <sup>2</sup>	21,760 Ω/km		21,951 Ω/km	
1,20 mm	1,131 mm <sup>2</sup>	15,111 Ω/km	26%	15,244 Ω/km	24%
1,40 mm	1,539 mm <sup>2</sup>	11,102 Ω/km		11,199 Ω/km	
1,60 mm	2,011 mm <sup>2</sup>	8,500 Ω/km	28%	8,574 Ω/km	26%
2,50 mm	4,909 mm <sup>2</sup>	3,482 Ω/km		3,512 Ω/km	

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