

<b>Datasheet:</b>  <b>EN Cu-ETP / CW004A</b> <b>Cable from bare or tinned Copper Wire</b> <b>For electrical conductors</b>  <b>Alumeco ApS</b> 30-04-2026				<b>Internal alloy name:</b> CW004A <b>Metal:</b> Copper  <b>Chemical Symbol:</b> Cu-ETP  <b>EN:</b> EN Cu-ETP <b>UNS:</b> C11000 <b>SS:</b> 5010 <b>DIN:</b> 2.0060/2.0065 <b>JIS:</b> C1100  <b>Alloy type:</b> Electrical conducting					
<b>Main usage:</b> <ul style="list-style-type: none"> <li>• Power distribution systems</li> <li>• Distribution transformers</li> <li>• Electrical and electronic applications</li> <li>• Earthing systems</li> <li>• Lightning protection systems</li> </ul>				<b>Important norms and literature:</b>  <b>Product Standards:</b> EN IEC 60228:2023: Conductors for insulated cables  <b>Tolerance Standards:</b> EN IEC 60228:2023: Conductors for insulated cables					
<b>Main properties:</b> <ul style="list-style-type: none"> <li>• Good electrical and thermal conductivity</li> <li>• Excellent corrosion resistance</li> <li>• Good formability</li> </ul>									
<b>Chemical composition in %: EN 13601:2021</b>									
<b>Cu</b>		<b>Bi</b>		<b>Pb</b>		<b>O</b>		<b>Other elements</b>	
								<b>Each</b>	<b>Total</b>
99,90		Max. 0,0005		Max. 0,005		Max. 0,040		-	0,03
<b>Cable specification: Class II - Earthing Wire</b>									
Cable		Type	Max. electrical resistance at 20°C		Max. lay length mm	Lay direction	Elongation A Min. %	Wire diameter deviation mm.	
			Ω / km					Min.	Max.
Size	Number of strands		Bare Wire	Tinned					
16,00 mm <sup>2</sup>	7	Concentric	1,144	1,159	82	S	16	1,660	1,699
25,00 mm <sup>2</sup>	7	Concentric	0,725	0,732	102	S	16	2,085	2,130
35,00 mm <sup>2</sup>	7	Concentric	0,523	0,529	120	S	16	2,455	2,501
50,00 mm <sup>2</sup>	19	Unilay	0,386	0,391	142	S	16	1,734	1,774
70,00 mm <sup>2</sup>	19	Unilay	0,268	0,270	170	S	16	2,085	2,130
95,00 mm <sup>2</sup>	19	Unilay	0,193	0,195	201	S	16	2,453	2,510
120,00 mm <sup>2</sup>	37	Unilay	0,152	0,154	227	S	16	1,980	2,024
150,00 mm <sup>2</sup>	37	Unilay	0,123	0,125	251	S	16	2,200	2,240
185,00 mm <sup>2</sup>	37	Unilay	0,0977	0,0997	282	S	16	2,470	2,515
240,00 mm <sup>2</sup>	37	Unilay	0,0742	0,0760	323	S	16	2,835	2,885
* S = Counter-clock									
<b>Physical properties:</b>									
Density (20 °C)	Melting Point	Electrical conductivity	Thermal conductivity (20 °C)	Thermal expansion (20 - 300 °C)	E – modulus (20 °C)				
g/cm <sup>3</sup>	°C	% IACS Min.	W/m K	µm m <sup>-1</sup> K <sup>-1</sup>	N / mm <sup>2</sup>				
8,93	1083	100	394	17	110.000				