

# Electrical properties

Designations			Volumen Resistivity $\frac{\Omega \times \text{mm}^2}{\text{m}}$ max.	Resistivity mass <sup>a</sup> $\frac{\Omega \times \text{g}}{\text{m}^2}$ max.	Conductivity		
Material		Metallurgical State			MS/m min.	% IACS <sup>b</sup> min.	
Symbolic	Numerical						
Cu-ETP Cu-FRHC CU-OF CuAg0,10 CuAg0,10(OF) Cu-PHC	CW004A CW005A CW008A CW013A CW019A CW020A	M	0,01754	0,1559	57,0	98,3	
		H040	R200	0,01724	0,1533	58,0	100,0
		H040	R220				
		H065	R240	0,01754	0,1559	57,0	98,3
		H090	R290				
		H110	R360	0,01786	0,1588	56,0	96,6
CuAg0,10P Cu-HCP	CW016A CW021A	M	0,01786	0,1588	56,0	96,6	
		H040	R200	0,01754	0,1559	57,0	98,3
		H040	R220				
		H065	R240	0,01786	0,1588	56,0	96,6
		H090	R290				
		H110	R360	0,01818	0,1616	55,0	94,8

NOTE 1 – The IACS % values are calculated as percentages of the normalized value of high conductivity annealed copper, according to those established by the International Electrotechnical Commission. Copper whose volume resistivity is of 0,017 24  $\Omega \times \text{m}$ , at 20°C, is defined as that corresponding to a conductivity of 100%.

NOTE 2 – 1 MS/m is equivalent to 1 m/( $\Omega \times \text{mm}^2$ ).

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Material					MS/m min.	% IACS <sup>b</sup> min.
Symbolic	Numerical					
<sup>a</sup> Calculated with a copper density of 8.89 g/cm <sup>3</sup> <sup>b</sup> IACS: International Annealed Copper Standard						