

# 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	D		0,01786	0,1588	56,0	96,6
		H035	R200	0,01724	0,1533	58,0	100,0
		H065	R250	0,01754	0,1559	57,0	98,3
		H090	R290	0,01786	0,1588	56,0	96,6
		H100	R360				
CuAg0,10P Cu-HCP	CW016A CW021A	D		0,01818	0,1616	55,0	94,8
		H035	R200	0,01754	0,1559	57,0	98,3
		H065	R250	0,01786	0,1588	56,0	96,6
		H090	R290	0,01818	0,1616	55,0	94,8
		H100	R360				
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/( $\Omega \times \text{mm}^2$ ).							
<sup>a</sup> Calculated with a copper density of 8.89 g/cm <sup>3</sup>							
<sup>b</sup> IACS: International Annealed Copper Standard.							

