

ELECTRICAL PROPERTIES (AT 20°C)

| Designations | | Metallurgical state | Volume resistivity $\Omega \times \text{mm}^2$ m max. | Resistividad másciaa $\Omega \times \text{g}$ m^2 max. | Conductivity MS/m min. | % IACS ^b min | | | |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------|----------------------------|---------|----|------|
| Material | | | | | | | | | |
| Symbolic | Numerical | | | | | | | | |
| Cu-OFE Cu-PHCE | CW009A CW022A | Annealed | | 0,017 07 | 0,151 7 | 58,6 | 101,0 | | |
| | | Non annealed | | 0,017 24 | 0,153 3 | 58,0 | 100,0 | | |
| Cu-ETP Cu-FRHC Cu-OF CuAg0,04 CuAg0,07 CuAg0,10 CuAg0,04(OF) CuAg0,07(OF) CuAg0,10(OF) Cu-PHC | CW004A CW005A CW008A CW011A CW012A CW013A CW017A CW018A CW019A CW020A | D | | 0,017 86 | 0,158 8 | 56,0 | 96,6 | | |
| | | H035 | R200 | 0,017 24 | 0,153 3 | 58,0 | 100,0 | | |
| | | H065 | R250 | | | | | | |
| | | H065 | R230 | 0,017 54 | 0,155 9 | 57,0 | 98,3 | | |
| | | H085 | R300 | | | | | | |
| | | H085 | R280 | | | | | | |
| | | H075 | R260 | 0,017 86 | 0,158 8 | 56 | 96,6 | | |
| | | H100 | R350 | | | | | | |
| | | CuAg0,04P CuAg0,07P CuAg0,10P Cu-HCP | CW014A CW0154A CW016A CW021A | D | | 0,018 18 | 0,161 6 | 55 | 94,8 |
| | | | | H035 | R200 | 0,17 54 | 0,155 9 | 56 | 98,3 |
| H065 | R250 | | | | | | | | |
| H065 | R230 | | | 0,017 86 | 0,158 8 | 55 | 96,6 | | |
| H085 | R300 | | | | | | | | |
| H085 | R280 | | | | | | | | |
| H075 | R260 | | | 0,018 18 | 0,161 6 | 55 | 94,8 | | |
| H100 | R350 | | | | | | | | |

NOTE 1 - Values in % de IACS are calculated as percentages of normalized value of the high conductivity annealed copper, As are established by the International Electrotechnical Commission. Copper whose volumen resistivity is 0,017 24 $\mu\Omega \times \text{m}$, a 20°C, is defined as corresponding to a conductivity of 100%.

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

^a Calculates with a density of 8.89 g/cm^3 . Copper.

^b IACS: International Annealed Copper Standard.