

JIS

JAPANESE INDUSTRIAL STANDARD

Hard-drawn Copper Round Trolley Wires

Ⓔ **JIS** E 2102-1990

Translation without guarantee
In the event of any doubt arising, the original
standard in Japanese is to be evidence

Translated

by

Japanese Standards Association



1. Scope

This Japanese Industrial Standard specifies the hard-drawn copper trolley wires with round sections (hereafter referred to as the "trolley wires").

Remark: The units and numerical values given in { } in this Standard are based on the International System of Units (SI) and are appended for informative reference.

Further, the traditional units and numerical values shall be replaced by the accompanying SI units and the relevant converted values given in { } on January 1, 1991.

2. Classification

The trolley wires shall be classified into five classes listed below according to diameter.

8 mm, 9 mm, 10 mm, 12 mm, 15 mm.

3. Quality Requirements

The trolley wires shall be homogeneous in quality, smooth in surface and free from defects such as flaws, rust, cracks, twist and others.

4. Electric Conductivity

The trolley wires shall show an electric conductivity of 97.5 % or over when subjected to the test specified in JIS C 3001.

5. Tensile Properties

The trolley wires shall be subjected to the tests prescribed below and the determined tensile load and elongation shall satisfy the requirements specified in Table 1.

- (1) The gauge length of the test piece shall be 250 mm.
- (2) When a test piece breaks down either within 25 mm from a bench mark inside the gauge length or outside the gauge length and at the same time the test result fails to meet the requirements specified in Table 1, the test shall be invalidated.

Applicable Standard:

JIS C 3001-Resistance of Copper Materials for Electrical Purposes

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