

JIS

JAPANESE INDUSTRIAL STANDARD

Hard drawn steel wires

Ⓒ JIS G 3521—1991

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Hard drawn steel wires

G 3521-1991

1. Scope

This Japanese Industrial Standard specifies the hard drawn steel wires, hereafter referred to as the "wires".

Remarks 1. Applicable standards to this Standard are as follows.

JIS G 3506 High Carbon Steel Wire Rods

JIS Z 2241 Method of Tensile Test for Metallic Materials

2. Corresponding International Standards to this Standard are as follows.

ISO 8458-1 : 1989 Steel wire for mechanical springs
(Part 1)

ISO 8458-2 : 1989 Steel wire for mechanical springs
(Part 2)

2. Classes, symbols and applied wire diameters

Wires shall be classified into three classes and their symbols and applied diameters shall be as given in Table 1.

Table 1. Classes and Symbols

Class	Symbol	Applied wire diameter	Remark
Hard drawn steel wire Class A	SW-A	0.08 mm or over up to and incl. 10.0 mm	-
Hard drawn steel wire Class B	SW-B	0.08 mm or over up to and incl. 13.0 mm	Mainly for springs receiv- ing principally static load
Hard drawn steel wire Class C	SW-C		

3. Mechanical properties

3.1 Tensile strength The tensile strength of the wires shall be as given in Table 2 when tested in accordance with 8.2

Reference Standards:

JIS B 2704-Design of Helical Compression and Extension Springs

JIS B 2709-Design of Helical Torsion Springs