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Wire ropes for mechanical control

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Wire Products Association (JWPA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently, **JIS G 3540:1995** is replaced with this Standard.

However, **JIS G 3540:1995** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until October 21st, 2013.

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Wire ropes for mechanical control

1 Scope

This Japanese Industrial Standard specifies the wire ropes of not more than 6 mm in nominal diameter mainly used for the operation of mechanical instruments, etc. (hereafter referred to as "ropes").

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 3506 *High carbon steel wire rods*

JIS G 4308 *Stainless steel wire rods*

JIS H 0401 *Test methods for hot dip galvanized coatings*

JIS Z 8401 *Guide to the rounding of numbers*

3 Terms and definitions

For the purposes of this Standard, the following terms and definitions apply.

3.1 wire

steel wires constructing the strand

There are the zinc-coated carbon steel wires and the stainless steel wires.

3.2 strand

an element of rope constructing an assembly spun helically with plural wires

However, that of 7-wire lay and of 19-wire lay specified in this Standard shall be classified into the rope.

3.3 wire strand core

strand to be the centre of rope

The construction shall be same as that of the strand of outer layer of rope.

3.4 rope diameter

diameter of circumscribed circle at an optional cross-section of rope

There are the nominal diameter and the actual diameter.

3.5 lay length

3.5.1 rope lay length

pitch of the helix of the strand of outer layer of rope (see figure 1)