

JIS

JAPANESE INDUSTRIAL STANDARD

**Plastic coated steel pipes
for cable-ways**

JIS C 8380—1993

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Plastic coated steel pipes for cable-ways

C 8380-1993

1. Scope This Japanese Industrial Standard specifies plastic coated steel pipes for cable-ways which are mainly used in general cable installation works, and in underground cable-ways of duct system and conduit system, to protect the cables (hereafter referred to as "coated steel pipes").

Remarks: The following Standards are cited in this Standard:

- JIS A 1415 Recommended practice for accelerated artificial exposure of plastics building materials
- JIS B 0204 Screw threads for rigid metal conduits and fittings
- JIS B 4751 Hand hacksaw blades
- JIS C 8305 Rigid steel conduits
- JIS G 3132 Hot-rolled carbon steel strip for pipes and tubes
- JIS G 3141 Cold rolled carbon steel sheets and strip
- JIS G 3444 Carbon steel tubes for general structural purposes
- JIS S 6006 Pencils and coloured pencils
- JIS Z 1522 Pressure sensitive adhesive cellophane tapes
- JIS Z 2371 Methods of neutral salt spray testing
- JIS Z 8401 Rules for rounding off of numerical values

2. Definitions For the purposes of this Standard, the following principal definitions apply:

- (1) cable-way This means the wires between power station, substation, switchyard, similar places, and electric service places; and the structures which support or protect such wires.
- (2) underground cable-way This means the cable-way installed under the ground, and there are conduit system, duct system and direct laying system as the installation procedures.
- (3) conduit system This is such a system that conduits which withstand the pressure due to vehicles or other heavy things are employed to accommodate the cables, and underground cable boxes (manholes or the like) are installed on the route and the ends of the cable-way.
- (4) duct system Such a system that the cables are accommodated in a structure which withstands the load resulted from the pressure of vehicles or other heavy things and which has a space to install the cables.
- (5) direct laying system A system to install cables under the ground with the cables being accommodated in such cable protector as trough, or with the top being protected by plates.

- (6) original pipe The steel pipe before execution of covering or painting.
- (7) covering To cover the original pipe with a synthetic resin by means of fluidized immersion method, extrusion molding method, etc.
- (8) painting To cover the original pipe with a paint by means of spray coating, brush coating, etc.
3. Classification and symbol The classification and symbols of coated steel pipes shall be as follows:

- (1) Coated steel pipes are classified and symbolized in accordance with the original pipe as shown in Table 1.

Table 1. Classification and symbols of coated steel pipes according to original pipes

Classification	Symbol
Coated steel pipe employing the original pipe having the same outside diameter, thickness and thread length as those of the thick rigid steel conduit of JIS C 8305 (hereafter referred to as "type G")	G
Coated steel pipe employing the original pipe having the same outside diameter, thickness and thread length as those of the thin rigid steel conduit of JIS C 8305 (hereafter referred to as "type C")	C
Coated steel pipe employing the original pipe having the same outside diameter and thickness as those of the threadless rigid steel conduit of JIS C 8305 (hereafter referred to as "type E")	E

- (2) Coated steel pipes are classified and symbolized in accordance with the covering or painting as shown in Table 2.

Table 2. Classification and symbols of coated steel pipes according to covering or painting

Classification	Symbol
Coated steel pipe whose inside and outside surfaces are covered	LL
Coated steel pipe whose outside surface is covered and inside surface is painted	LT

4. Performances

4.1 Bending property When the coated steel pipe is subjected to the test of 9.1, the bending property shall be such that the change of outside diameter falls within ± 20 % of the original outside diameter, that no cracks or fissures appears on the welded portion, and that no cracks, peeling off, or the like appears on the paint film or cover film.