

# ISO 19203:2018 (E)

## Hot-dip galvanized and zinc-aluminium coated high tensile steel wire for bridge cables — Specifications

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols
5	Designation of the product
6	Information needed by the manufacturer
7	Requirements
7.1	Materials and manufacture
7.2	Standard properties
7.2.1	Geometrical properties
7.2.2	Straightness
7.2.2.1	General
7.2.2.2	Bow height
7.2.3	Mechanical and coating properties
7.2.4	Appearance
7.3	Special properties
7.4	Traceability
8	Inspection
8.1	Inspection and inspection documents
8.2	Number of samples and test pieces
8.3	Evaluation of test results
8.4	Sorting and reprocessing
9	Test methods
9.1	Testing of standard properties
9.1.1	Measurement of geometrical characteristics
9.1.2	Tensile test
9.1.3	Elasticity modulus test
9.1.4	Torsion test
9.1.5	Ductility wrapping test
9.1.6	Mass of coating
9.1.7	Adhesive of coating
9.1.8	Surface quality
9.2	Testing of special properties
9.2.1	Uniformity of zinc or zinc-aluminium coating (dipping test)
9.2.2	Corrosion resistance test
9.2.3	Axial force fatigue test
9.2.4	Isothermal stress relaxation test
10	Delivery conditions
10.1	Identification
10.2	Coil dimensions
10.3	Coil weight
10.4	Transport and storage

**Annex A (normative) Additional test methods — Axial force fatigue test**

- A.1 Principle of test**
- A.2 Test piece**
- A.3 Test conditions**
- A.4 Test procedure**

**Annex B (normative) Additional test methods — Isothermal stress relaxation test**

- B.1 Principle of test**
- B.2 Test piece**
- B.3 Test conditions**
- B.4 Test procedure**

**Annex C (informative) Calculation of the density of steel wire and diameter of bare steel wire**

**Page count: 13**