
**Road vehicles — Multi-core connecting
cables —**

Part 2:

**Test methods and requirements for high
performance sheathed cables**

Véhicules routiers — Câbles de raccordement multiconducteurs —

*Partie 2: Méthodes d'essai et exigences pour les câbles gainés à hautes
performances*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4141-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This second edition cancels and replaces the first edition (ISO 4141-2:1998), which has been technically revised.

ISO 4141 consists of the following parts, under the general title *Road vehicles — Multi-core connecting cables*:

- *Part 1: Test methods and requirements for basic performance sheathed cables*
- *Part 2: Test methods and requirements for high performance sheathed cables*
- *Part 3: Construction, dimensions and marking of unscreened sheathed low-voltage cables*
- *Part 4: Articulation test method and requirements for coiled cable assemblies*

The following part is under preparation:

- *Part 4: Test methods and requirements for coiled cable assemblies* [Revision of ISO 4141-4:2001]

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Road vehicles — Multi-core connecting cables —

Part 2:

Test methods and requirements for high performance sheathed cables

1 Scope

This part of ISO 4141 specifies the test methods and requirements for high performance sheathed multi-core cables for the connection of towing and towed vehicles, suitable for a temperature range of $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1817, *Rubber, vulcanized — Determination of the effect of liquids*

ISO 4141-1, *Road vehicles — Multi-core connecting cables — Part 1: Test methods and requirements for basic performance sheathed cables*

ISO 4141-3, *Road vehicles — Multi-core connecting cables — Part 3: Construction, dimensions and marking of unscreened sheathed low-voltage cables*

ISO 6722, *Road vehicles — 60 V and 600 V single-core cables — Dimensions, test methods and requirements*

ISO 14572, *Road vehicles — Round, screened and unscreened 60 V and 600 V multi-core sheathed cables — Test methods and requirements for basic and high performance cables*

3 General requirements

High performance sheathed multi-core cables shall be in accordance with ISO 4141-1 and shall meet the additional test and requirements or modified test conditions specified in Clause 4.

Coiled multi-core cables shall in addition meet the tests and requirements specified in Clause 5.

4 Tests and requirements

4.1 Impact

See ISO 4141-1 but use a freezing temperature of $(-20 \pm 2)\text{ }^{\circ}\text{C}$.

4.2 Pressure at high temperature

See ISO 14572 and apply the requirements for high performance cables.