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

**Part 4:
Articulation test method and requirements
for coiled cable assemblies**

Véhicules routiers — Câbles de raccordement multiconducteurs —

*Partie 4: Méthode d'essai d'articulation et exigences pour les câbles spiralés
assemblés*



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 part of ISO 4141 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 4141-4 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

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*

Annex A forms a normative part of this part of ISO 4141.

Road vehicles — Multi-core connecting cables —

Part 4: Articulation test method and requirements for coiled cable assemblies

1 Scope

This part of ISO 4141 specifies a test method and performance requirements for an articulation test of electrical coiled cable assemblies for the connection of towing and towed road vehicles equipped with nominal 12 V or 24 V systems.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 4141. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 4141 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1185, *Road vehicles — Electrical connections between towing and towed vehicles with 24 V systems — 7 pole connector type 24 N (normal)*

ISO 3731, *Road vehicles — Electrical connections between towing and towed vehicles with 24 V systems — 7 pole connector type 24 S (supplementary)*

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

ISO 7638-1, *Road vehicles — Electrical connectors for braking systems — Part 1: Connectors for 24 V nominal supply voltage*

ISO 7638-2, *Road vehicles — Electrical connectors for braking systems — Part 2: Connectors for 12 V nominal supply voltage*

ISO 12098, *Commercial vehicles with 24 V systems — 15-pole connectors between towing vehicles and trailers — Dimensions and contact allocation*

3 Test temperature

The test shall be performed at $(23 \pm 5) ^\circ\text{C}$.