

INTERNATIONAL STANDARD

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Road vehicles — Unscreened high-tension ignition cable assemblies — General requirements and test methods

*Véhicules routiers — Assemblages de câbles d'allumage haute tension
non blindés — Spécifications générales et méthodes d'essai*



Reference number
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Foreword

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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.

International Standard ISO 6856 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

This second edition cancels and replaces the first edition (ISO 6856:1981), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

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Road vehicles — Unscreened high-tension ignition cable assemblies — General requirements and test methods

1 Scope

This International Standard specifies the general requirements and test methods for unscreened high-tension ignition cable assemblies.

It applies to all types of unscreened high-tension ignition cable assemblies used in road vehicle applications.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3768:1976, *Metallic coatings — Neutral salt spray test (NSS test)*.

ISO 3808-2:1980, *Road vehicles — Unscreened high-tension ignition cables — Part 2: Cable classes, types, applicable tests and special requirements*.

3 Test methods

3.1 Insertion and removal forces of high-tension connectors

The insertion and removal forces shall be measured at an ambient temperature of $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ with the

gauge specified in 3.1.3 (see figure 1), 3.1.4 (see figure 2) and 3.1.5 (see figure 3).

The gauge and the connector to be measured shall be dry and clean.

Insertion and removal forces shall be the forces between the high-tension terminal of the ignition coils, the distributors or the spark-plugs and the cable connector. Any other force from covers or boots shall not be taken into account.

3.1.1 Insertion force

The insertion force shall be measured at the first insertion.

Maximum value: 80 N

3.1.2 Removal force

The removal force measurement shall be carried out by using a suitable test apparatus at a constant test speed of 100 mm/min, 200 mm/min or 500 mm/min. The exact speed used shall be agreed between customer and supplier and recorded in the test report.

The minimum value of the removal force shall be measured at the tenth removal.

Maximum value: 70 N
Minimum value: 20 N