INTERNATIONAL STANDARD

ISO 3553-2

Second edition
1997-06-01

Road vehicles — High-tension connectors for ignition coils and distributors —

Part 2: Plug-types

Véhicules routiers — Connecteurs à haute tension pour bobines et distributeurs d'allumage —

Partie 2: Type mâle

Reference number
ISO 3553-2:1997(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 3553-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 1, *Ignition equipment*.

This second edition cancels and replaces the first edition (ISO 3553-2:1987), which has been technically revised.

ISO 3553 consists of the following parts, under the general title *Road vehicles — High-tension connectors for ignition coils and distributors*:

— *Part 1: Socket-type*

— *Part 2: Plug-types*

Annex A forms an integral part of this part of ISO 3553.

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Road vehicles — High-tension connectors for ignition coils and distributors —

Part 2:
Plug-types

1 Scope

This part of ISO 3553 specifies the essential dimensions of plug-type high-tension connectors for ignition coils and distributors, used for spark-ignited engines.

2 Requirements

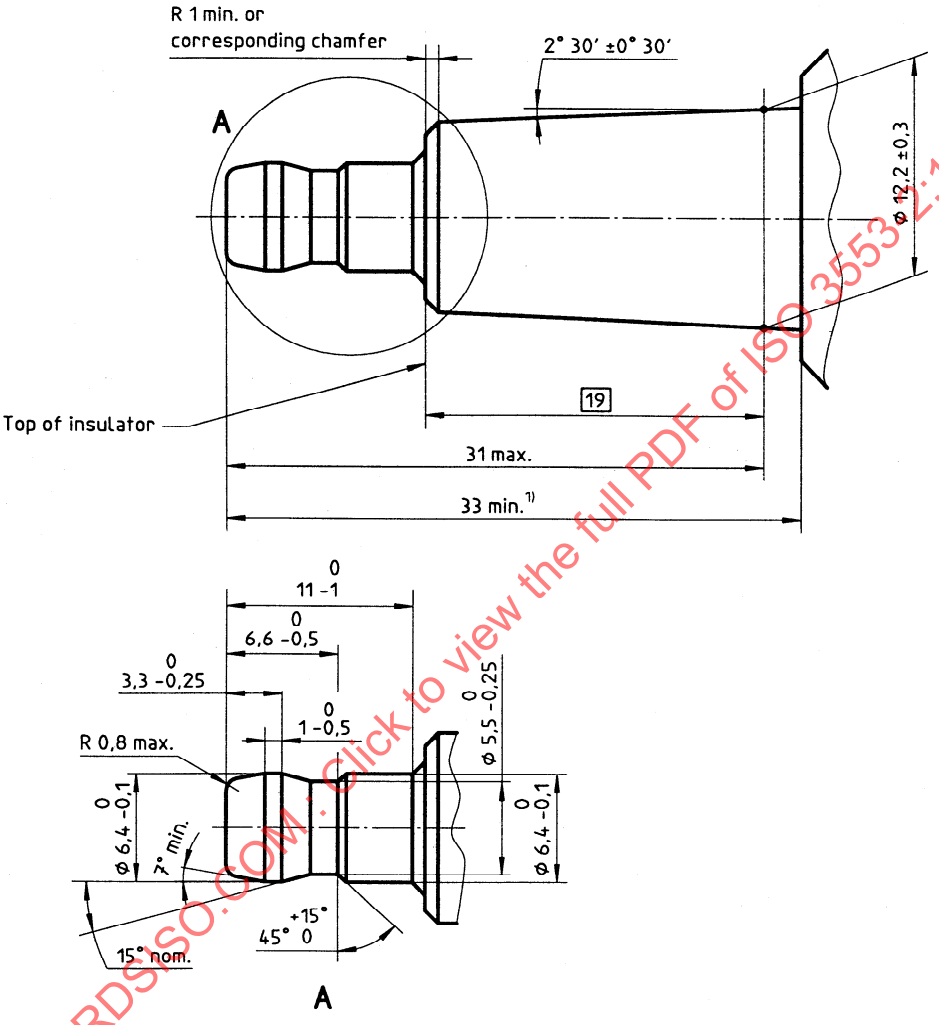
Connectors of type C shall meet the dimensions shown in figure 1.

Connectors of types D, E and F shall meet the dimensions shown in figure 2.

In special circumstances the design given in annex A may be used when agreed between the supplier and the engine manufacturer.

Details not specified in this part of ISO 3553 are left to the manufacturer's choice.

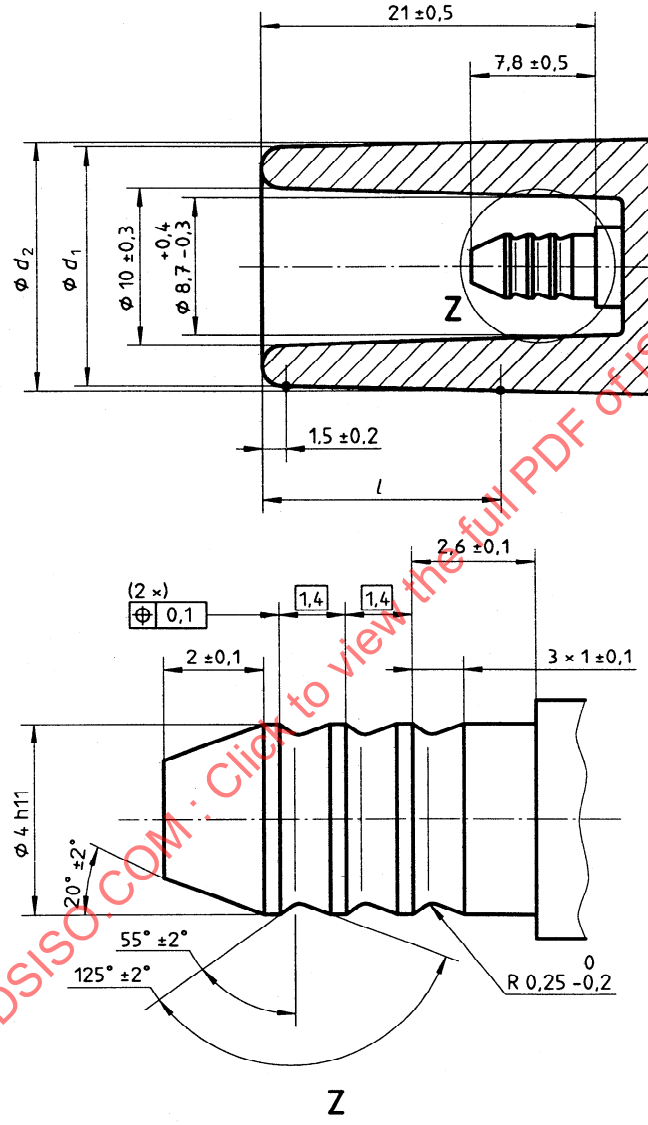
Dimensions in millimetres



1) This dimension shall be 34 mm min. for new designs.

Figure 1 — Type C connectors

Dimensions in millimetres



Type of connector	d_1 $+0,5$ 0	d_2 $\pm 0,25$	l $\pm 0,5$
D	15	16	15
E	17,75	19,1	25
F	14	14,2	24

Figure 2 — Connectors of types D, E and F

Annex A
(normative)

Connectors of types D, E, F — Design options

The design of the connector shown in figure A.1 is only to be used in special circumstances when agreed between the supplier and the engine manufacturer.

The most important differences between the detail Z shown in figure A.1 and the detail Z shown in figure 2 is that the angle α replaces the angle of 55° specified in figure 2. This angle is not specified in order to allow a variation in the withdrawal force by varying the value of this angle.

Depending upon the female part of the connection that is used and the required withdrawal force, the angle α shall be agreed between the supplier and the engine manufacturer. However, the angle α should be greater than 45° and less than 70°.

Dimensions in millimetres

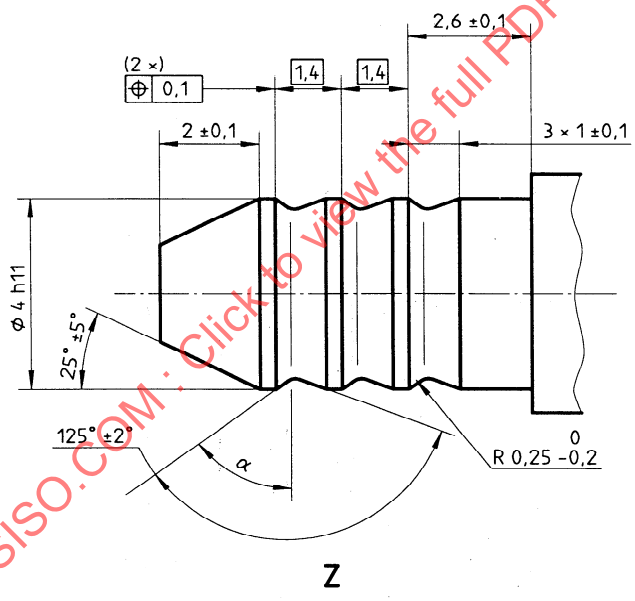


Figure A.1 — Alternative detail Z