

INTERNATIONAL  
STANDARD

**ISO**  
**8820-3**

First edition  
1994-08-15

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**Road vehicles — Blade-type electric  
fuse-links —**

**Part 3:**  
Test fixture

**STANDARD PREVIEW**  
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*Véhicules routiers — Fusibles électriques plats —*

*Partie 3: Module d'essai*  
<https://standards.iteh.ai/en/standards/ISO/8820-3:1994>  
<https://standards.iteh.ai/en/standards/ISO/8820-3:1994>



Reference number  
ISO 8820-3:1994(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 8820-3 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

<https://standards.iteh.ai/catalog/standards/sist/8566006d-404e-4cc3-a56c->

ISO 8820 consists of the following parts, under the general title *Road vehicles — Blade-type electric fuse-links*:

- *Part 1: Rated current, identification, test procedures and performance requirements*
- *Part 2: Dimensions*
- *Part 3: Test fixture*

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# Road vehicles — Blade-type electric fuse-links —

## Part 3: Test fixture

### 1 Scope

This part of ISO 8820 establishes the overall dimensions, materials, finish and coatings for the test fixture to perform electrical tests on blade-type electric fuse-links as specified in ISO 8820-1 for road vehicles.

Rated current, identification, test procedures and performance of blade-type electric fuse-links are specified in ISO 8820-1, and dimensions in ISO 8820-2.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8820. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8820 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 1207:1992, *Slotted cheese head screws — Product grade A.*

ISO 4032:1986, *Hexagon nuts, style 1 — Product grades A and B.*

ISO 8820-1:1994, *Road vehicles — Blade-type electric fuse-links — Part 1: Rated current, identification, test procedures and performance requirements.*

### 3 Requirements

The test fixture shall conform to the material requirements and dimensions shown in table 1 and figures 1 to 7.

Alternative designs of test fixture are allowed provided that the electrical and mechanical properties are equivalent.

**Table 1 — Parts list and material specifications**

Reference No. in figure 1	Description	Dimensions see figure	Material specifications, finish and coating	Quantity
1	Body half 1	2	Thermosetting plastics	1
2	Washer	3	Steel, 3 µm to 4 µm zinc-plated	2
3	Spring	4	Music wire, bright or phosphate-coated	2
4	Terminal	5	Phosphor bronze, thickness: 0,5 mm, pre-tinned	2
5	Eyelet	6	Brass	2
6	Body half 2	7	Thermosetting plastics	1
7	Adjusting screw: ISO 1207-M3,5 × 12	—	Property class 5.8, min. 5 µm galvanically zinc-coated	2
8	Screw: ISO 1207-M2 × 10	—	Property class 5.8, min. 5 µm galvanically zinc-coated	1
9	Hex nut: ISO 4032-M2	—	Finish M, property class 5	1

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Dimensions in millimetres

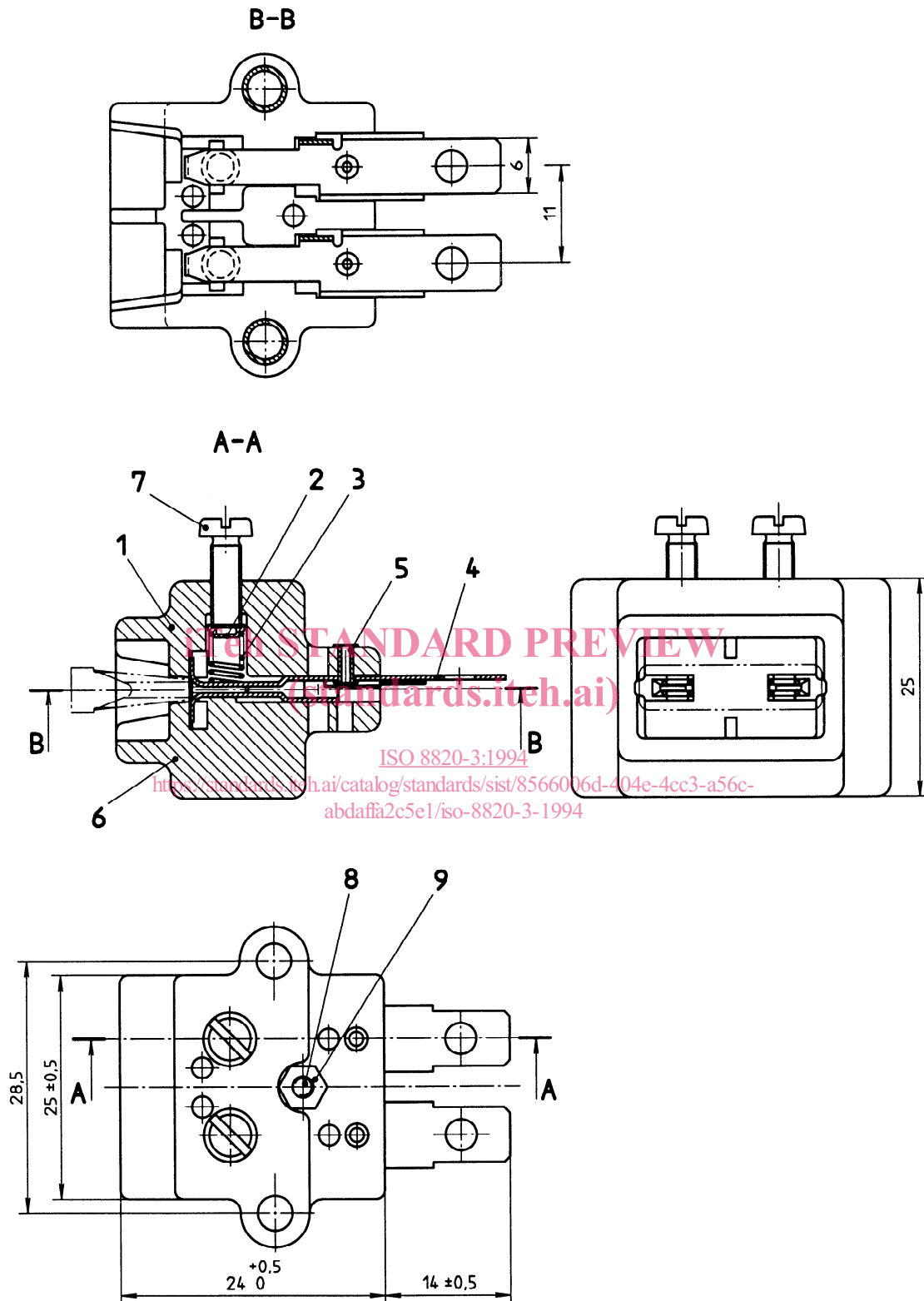


Figure 1 — Test fixture assembly

Dimensions in millimetres  
 Tolerances:  $\pm 0,1$  (linear),  $\pm 1^\circ$  (angular).  
 All corners, edges on the external surfaces shall be rounded R1.  
 Draft angles show included angles  $2^\circ$  draft angle

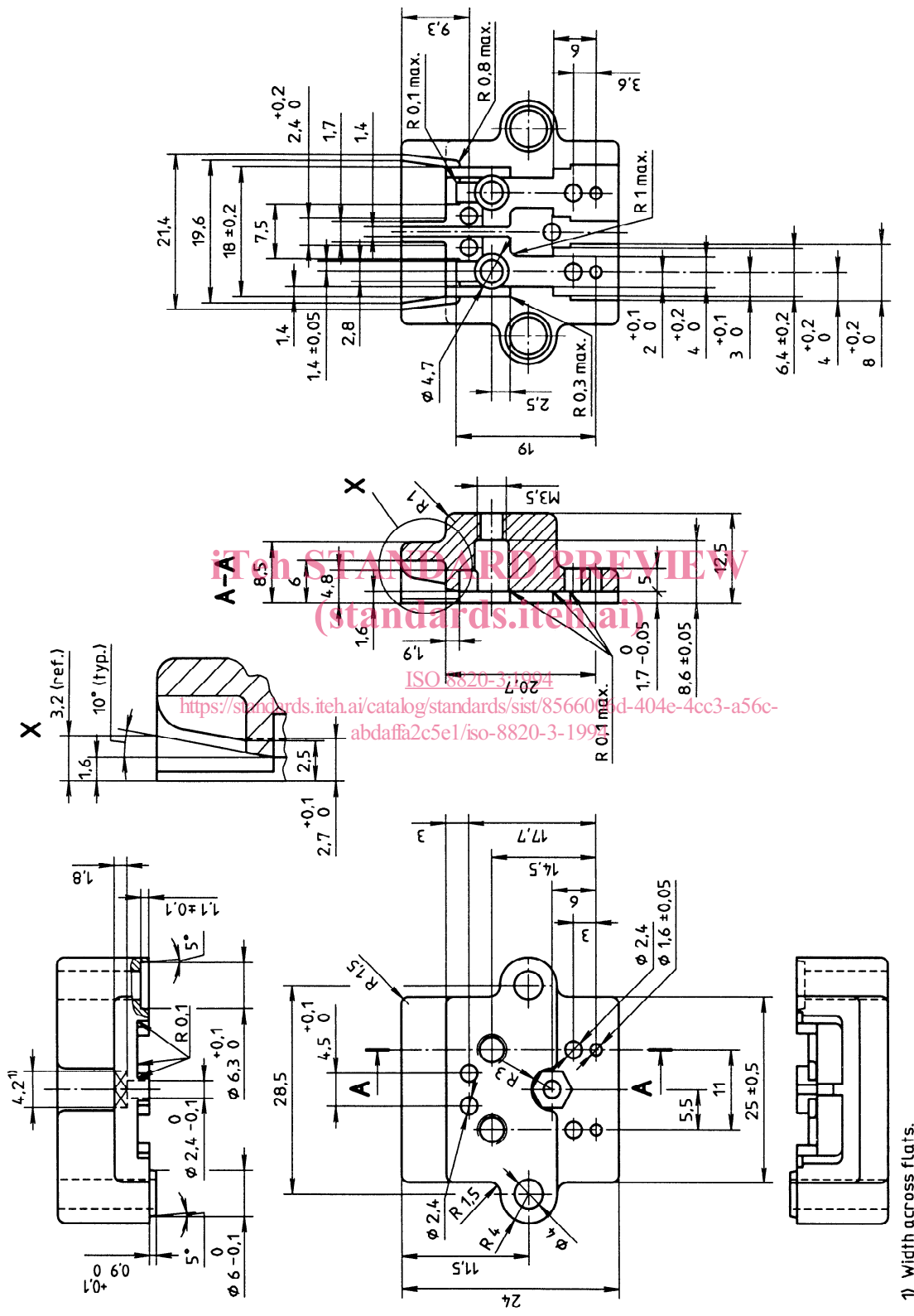


Figure 2 — Body half 1

Dimensions in millimetres  
Tolerances:  $\pm 0,1$  (linear)

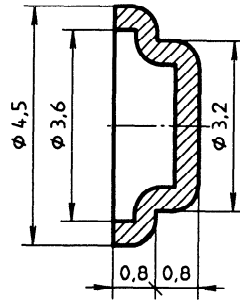
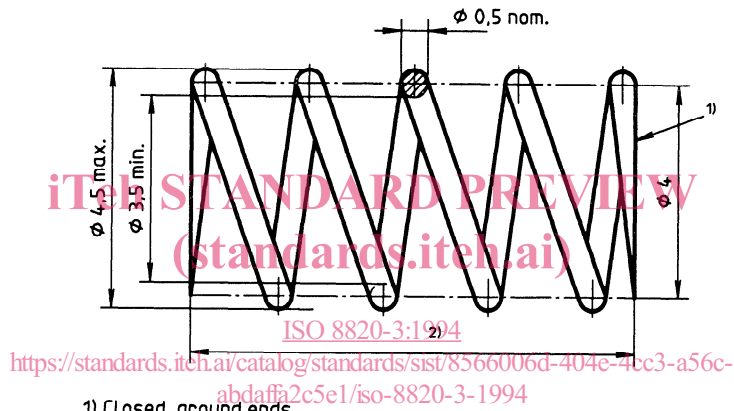


Figure 3 — Washer

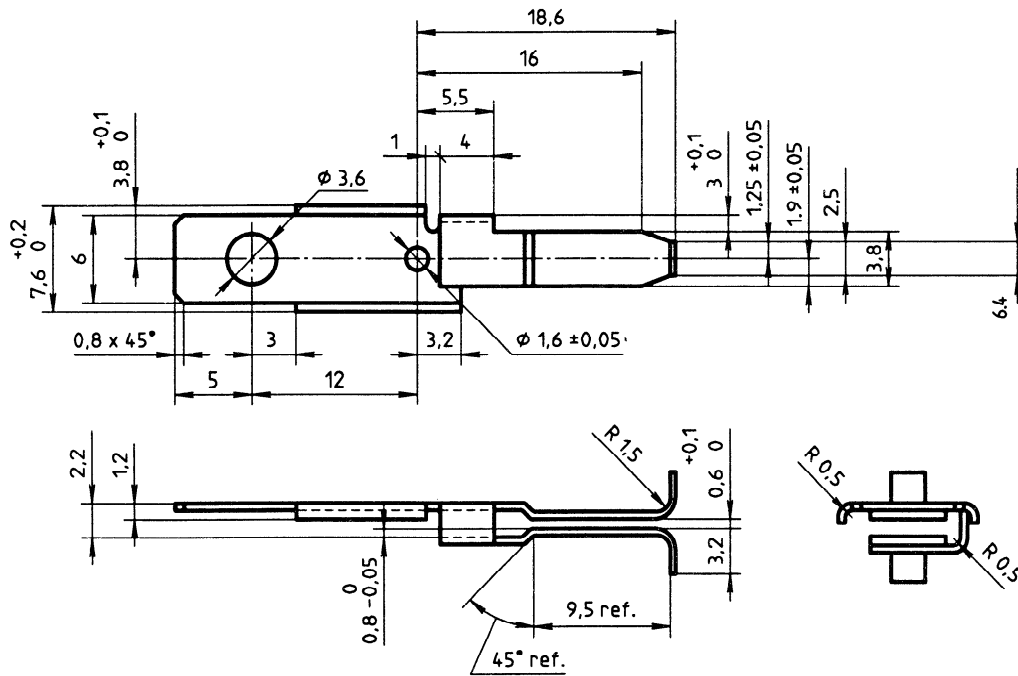
Dimensions in millimetres



- 1) Closed, ground ends
- 2) Free Length =  $8,4$  mm  $\pm 0,4$  mm  
Solid height =  $77,5$  mm max.  
Load at  $4,6$  mm =  $7,6$  N  $\pm 10\%$   
Number of active coils : 4

Figure 4 — Spring

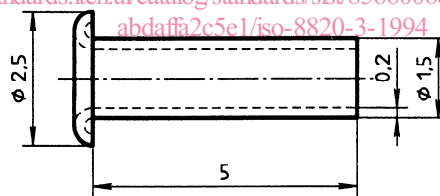
Dimensions in millimetres  
Tolerances:  $\pm 0,1$  (linear),  $\pm 2^\circ$  (angular)



**Figure 5 — Terminal**  
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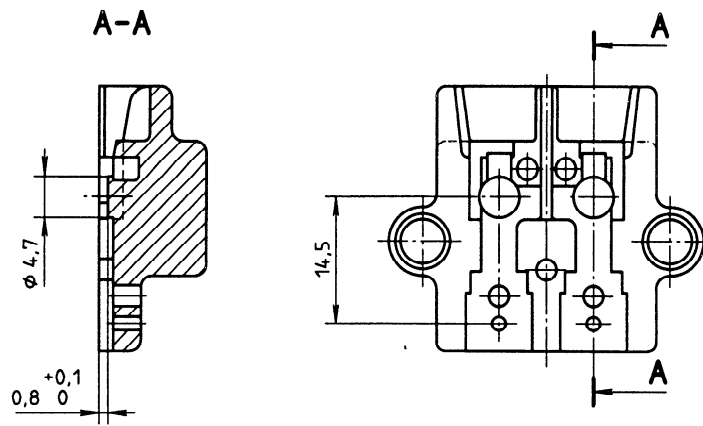
Dimensions in millimetres



**Figure 6 — Eyelet**



Dimensions in millimetres  
Tolerances:  $\pm 0,1$  (linear),  $\pm 2^\circ$  (angular)



NOTE — All other dimensions as for body half 1 (see figure 2).

**Figure 7 — Body half 2**

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