International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION®MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ®ORGANISATION INTERNATIONALE DE NORMALISATION

Cycles – Clavette et assemblage axe-clavette-manivelle

First edition – 1981-11-01 Teh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 6693:1981</u> https://standards.iteh.ai/catalog/standards/sist/fc03b635-f11c-4e04-a034-56c5109471af/iso-6693-1981

UDC 629.118.3:621.886.5

Descriptors : road vehicles, bicycles, cycle crank-gears, cotter pins, joining, dimensions, dimensional tolerances.

Foreword

Australia Austria Belgium Canada Czechoslovakia France

India

Germany, F. R.

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

iTeh STANDARD PREVIEW International Standard ISO 6693 was developed by Technical Committee ISO/TC 149, *Cycles*, and was circulated to the member bodies in September 1979 siteh.ai

It has been approved by the member bodies of the following countries :

https://standards.iteh.ai/catalog/standards/sist/fc03b635-fl1c-4e04-a034-	
Israel 56c51	09 Romania 6693-1981
Italy	South Africa, Rep. of
Japan	Switzerland
Korea, Rep. of	United Kingdom
Libyan Arab Jamahiriya	USA
Mexico	USSR
Netherlands	Yugoslavia
Poland	

The member body of the following country expressed disapproval of the document on technical grounds :

China

Cycles — Cotter pin and assembly of the axle/cotter pin/crank

1 Scope and field of application

This International Standard specifies dimensions and tolerances of the cotter pin and its assembly with the axle and crank, together with the dimensions relevant to the assembly.

It applies to the fixing of a pedal crank to the bottom bracket axle of a bicycle.

2 Reference

ISO 887, Plain washers for metric bolts, screws and nuts – General plan.¹⁾

3 Designation

Any cotter pin in conformity with the specifications of this International Standard is designated as follows : Cotter pin ISO 6693-9,5 (standards.iteh.ai)

4 Dimensional characteristics

racteristics <u>ISO 6693:1981</u> https://standards.iteh.ai/catalog/standards/sist/fc03b635-fl1c-4e04-a034-56c5109471af/iso-6693-1981

4.1 Cotter pin²⁾

Dimensions and tolerances in millimetres Dimensions and tolerances in millimetres Dimensions and tolerances in millimetres 19,5 Ref. 28,5±0,3 43±0,3

1) At present at the stage of draft. (Revision of ISO/R 887-1968.)

2) Where a specific variation is required in the fit of the cotter pin in the crank, this should be effected only by a variation of the reference dimension D.

3) Tolerances

- Thread M7 × 1 : thread as machined : 6g thread after coating : 7h, 6h
 - $-\phi$ 9,5 : h10 = -0,058 mm

4.2 Assembly of the axle/cotter pin/crank



Dimensions and tolerances in millimetres

1) Tolerances

 $- \phi 16 : H10 = {\begin{array}{*{20}c} + 0,070 \\ 0 \\ h10 = - 0,070 \\ \end{array}}$ $- \phi 9,5 : H10 = {\begin{array}{*{20}c} + 0,058 \\ 0 \\ h10 = - 0,058 \\ \end{array}}$

2

4.3 Bottom bracket axle

The figure below gives details of the end of the bottom bracket axle.



Dimensions and tolerances in millimetres

2) This length L, is a function of the thickness of the crank, and will be specified later.

3

iTeh STANDARD PREVIEW (his page intentionally tert brank)

<u>ISO 6693:1981</u> https://standards.iteh.ai/catalog/standards/sist/fc03b635-f11c-4e04-a034-56c5109471af/iso-6693-1981

iTeh STANDARD PREVIEW (standards iteh ai) This page intentionally left blank)

<u>ISO 6693:1981</u> https://standards.iteh.ai/catalog/standards/sist/fc03b635-f11c-4e04-a034-56c5109471af/iso-6693-1981

iTeh STANDARD PREVIEW (standards iteh ai) This page intentionally left blank

<u>ISO 6693:1981</u> https://standards.iteh.ai/catalog/standards/sist/fc03b635-fl1c-4e04-a034-56c5109471af/iso-6693-1981