

For Comments only**Doc:TED 11(748)W**
Feb 2010

Draft Indian Standard
ROAD VEHICLES –FUSE-LINKS – PART 1: DEFINITIONS
AND GENERAL TEST REQUIREMENTS
(Second Revision of IS 2577)

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**Last date for receipt
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NATIONAL FOREWORD

This Indian Standard (*second revision*) which is identical with ISO 8820-1:2008 Road vehicles – Fuse-links – Part 1: Definitions and general test requirements, issued by the International Organization for Standardization (ISO) shall be adopted by the Bureau of Indian Standards on the recommendation of the Automotive Electrical Equipments and Instruments Sectional Committee after approved by the Transport Engineering Department Council.

This standard was first published in 1963. In the first revision in 1974, besides general updation, variety reduction in current rating was carried out. The current revision was taken up to thoroughly update the standard with respect to types, test requirements and user's guide. In line with ISO, this standard has been brought out in 7 parts.

This standard is one of the series of Indian standards on fuse links for automotive vehicles. Other standards in the series are:

IS 2577 Road vehicles – Fuse –links:

- Part 2 Doc:TED 11(749) User's guide
- Part 3 Doc:TED 11(750) Fuse-links with tabs (Blade type)
- Part 4 Doc:TED 11(751) Fuse-links with female contacts (type A) and bolt-in contacts (type B) and their test fixtures
- Part 5 Doc:TED 11(752) Fuse-links with axial terminals (Strip fuse-links) types SF and SF 51 and test fixtures
- Part 6 Doc:TED 11(753) Single-bolt fuse-links
- Part 7 Doc:TED 11(754) Fuse-links with tabs (Type G) with rated voltage of 450 V

The text of the International Standard has been proposed as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their places are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 6722 Road vehicles – 60 V and 600 V single-core cables – Dimensions, test methods and requirements	Doc:TED 11 (747)w Road Vehicles – 60 V And 600 V Single-Corecables – Dimensions, test methods and requirements	Identical
ISO 8820-1:2008 Road vehicles – Fuse-links Part 1:Definitions and general test requirements	Doc: TED 11(748)w Road vehicles – Fuse-links Part 1:Definitions and general test requirements	- do -
ISO 8820-2:2005 Road vehicles – Fuse-links Part 2: User’s guide	Doc: TED 11(749)w Road vehicles – Fuse-links Part 2: User’s guide	- do -
ISO 8820-3:2002 Road vehicles – Fuse-links Part 3: Fuse-links with tabs (blade type)	Doc: TED 11(750)w Road vehicles – Fuse-links Part 3: Fuse-links with tabs (blade type)	- do -
ISO 8820-4:2002 Road vehicles – Fuse-links Part 4: Fuse-links with female Contacts (type A) and bolt-in contacts (type B) and their test fixtures	Doc: TED 11(751)w Road vehicles – Fuse-links Part 4: Fuse-links with female Contacts (type A) and bolt-in contacts (type B) and their test fixtures	- do -
ISO 8820-5:2007 Road vehicles – Fuse-links Part 5: Fuse-links with axial terminals (Strip fuse-links) Types SF 30 and SF 51 and test fixtures	Doc: TED 11(752)w Road vehicles – Fuse-links Part 5: Fuse-links with axial terminals (Strip fuse-links) Types SF 30 and SF 51 and test fixtures	- do -
ISO 8820-6:2007 Road vehicles – Fuse-links Part 6:Single-bolt fuse-links	Doc: TED 11(753)w Road vehicles – Fuse-links Part 6:Single-bolt fuse-links	- do -
ISO 8820-7:2007 Road vehicles – Fuse-links Part 7:Single-bolt fuse-links tables (Type G) with rated voltage of 450	Doc: TED 11(754)w Road vehicles – Fuse-links Part 7: Fuse-links with tables (Type G) with rated voltage of 450	- do -

The technical committee has also reviewed the provisions of the following Indian Standards referred in the adopted standard and decided that they are acceptable for use in conjunction with this standard:

ISO 16750-3, Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part 3: Mechanical loads

ISO 16750-5 Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part 5: Chemical loads

IEC 60068-2-70 Environmental testing – Part 2: Tests – Test Xb: abrasion of marking and letterings caused by rubbing of fingers and hands

In order to protect the automobile electrical equipments against excessive currents, fuse-links are inserted. Owing to number of circuits and accessories, it might become necessary to insert fuse-links into each circuit depending on the load requirements. This standard is intended to cover such fuse-links for automobiles. Porcelain or moulded fuse-links are covered in IS 7528:1974 Specification for porcelain (moulded) fuse-links for ac circuits.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. BIS shall not be held responsible for identifying any or all such patent rights.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note – For complete text please refer ISO 8820-1:2008. Hard copies with complete text can also be provided or request. For the same please send your request to the following:

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