



NSAI
Standards

Standard Recommendation
S.R. CLC/TS 50502:2008

Railway applications - Rolling stock - Electric equipment in trolley buses - Safety requirements and connection systems

S.R. CLC/TS 50502:2008

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English version

**Railway applications –
Rolling stock –
Electric equipment in trolley buses –
Safety requirements and connection systems**

Applications ferroviaires –
Matériel roulant –
Équipement électrique des trolleybus –
Exigences de sécurité et systèmes
de connexion

Bahnanwendungen –
Fahrzeuge –
Elektrische Ausrüstung in O-Bussen –
Sicherheitsanforderungen
und Verbindungssysteme

This Technical Specification was approved by CENELEC on 2008-05-09.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This Technical Specification was prepared by SC 9XB, Electromechanical material on board rolling stock, of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to vote in accordance with the Internal Regulations, Part 2, Subclause 11.3.3.3 and was approved by CENELEC as CLC/TS 50502 on 2008-05-09.

This Technical Specification supersedes CLC/TS 50502:2007.

The following date was fixed:

- latest date by which the existence of the CLC/TS
has to be announced at national level (doa) 2008-11-09

Contents

1	General	4
1.1	Scope.....	4
1.2	Normative references	4
1.3	Definitions	5
1.4	Voltages	7
1.5	Classification of the voltage bands	7
2	Trolley bus construction	8
2.1	Protection and electrical safety criteria	8
2.2	Electrical components in band III voltage (high voltage)	10
2.3	Electric traction equipment	10
2.4	Emergency running equipment (independent from OHL).....	11
2.5	Electrical components in band II voltage (medium voltage).....	12
2.6	Electrical components in band I voltage (low voltage).....	12
3	Checks and tests	13
3.1	General	13
3.2	New trolley-vehicles	13
3.3	Overhauled trolley-vehicles	19
3.4	On-duty trolley vehicles (periodical checks).....	20
3.5	Leakage detectors	20
	Annex A (normative) Constructional detailed provisions	23
	Annex B (normative) Trolley buses – Connection system to overhead contact lines	25
	Annex C (normative) Constructional hints for connection systems	40
	Bibliography	41
	Figures	
	Figure 1 – Test circuits	14
	Figure 2 – Megaohmmeter connection	17
	Figure 3 – Megaohmmeter connection	18
	Figure 4 – Typical efficiency verification criteria for the leakage detector	21
	Figure B.1 – General characteristics of a typical current collector	25
	Figure B.2 – Preferred excursion of trolley poles versus distances of contact lines to ground	26
	Figure B.3 – Example of coupling of rod with this head and underbase	28
	Figure B.4 – Typical trolley	29
	Figure B.5 – Typical slipper	30
	Figure B.6 – Devices (if any) for recovering and excursion limiting of rod ropes position, overall dimensions and signalling	33
	Figure B.7 – Scheme of the verification of the slipping off of the current collector head	38
	Tables	
	Table 1 – Voltage bands for trolley buses	8
	Table 2 – Test voltages U_a based on rated insulation voltage U_{Nm}	16
	Table 3 – Calibration of the insulation resistance	21
	Table 4 – Summary of electric tests	22
	Table B.1 – Summary of tests and checks	35

1 General

1.1 Scope

This Technical Specification applies to electrical systems on board trolley buses, as defined in 1.3.1, fed with a nominal line voltage (U_n) between 600 V d.c. and 750 V d.c.

This Technical Specification defines the requirements and constructional hints, especially to avoid danger of electrical kind to the public and to the personnel.

CLC/TS 50502 is normative only for vehicles ordered and designed after publication of the same.

This Technical Specification covers vehicles intended for public transport of persons.

It refers mainly to earthed networks, but reference is made also to galvanically insulated networks.

Annexes B and C are related to the connection systems. The detailed scope of these annexes is given in Annex B.

1.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 45	Definition of weldability
EN 50119	Railway applications – Fixed installations – Electric traction overhead contact lines
EN 50121 series	Railway applications – Electromagnetic compatibility
EN 50122-1	Railway applications – Fixed installations Part 1: Protective provisions relating to electrical safety and earthing
EN 50124 series	Railway applications – Insulation coordination
EN 50125 series	Railway applications – Environmental conditions for equipment
EN 50153	Railway applications – Rolling stock – Protective provision relating to electrical hazards
EN 50155	Railway applications – Electronic equipment used on rolling stock
EN 50163	Railway applications – Supply voltages of traction systems
EN 50207 ¹⁾	Railway applications – Electronic power converters for rolling stock
EN 50215	Railway applications – Testing of rolling stock after completion of construction and before entry into service

¹⁾ Superseded by EN 61287-1.

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