

Equipos electrónicos para ferrocarriles. Red de comunicaciones del tren (TCN). Parte 2-8: Prueba de conformidad TCN de ETB, ECN y perfil de comunicación. (Ratificada por la Asociación Española de Normalización en enero de 2022.)

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Equipos electrónicos para ferrocarriles. Red de comunicaciones del tren (TCN). Parte 2-8: Prueba de conformidad TCN de ETB, ECN y perfil de comunicación. (Ratificada por la Asociación Española de Normalización en enero de 2022.)

Electronic railway equipment - Train communication network (TCN) - Part 2-8: TCN conformance test (Endorsed by Asociación Española de Normalización in January of 2022.)

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**Electronic railway equipment - Train communication network
(TCN) - Part 2-8: TCN conformance test
(IEC 61375-2-8:2021)**

Matériel électronique ferroviaire - Réseau embarqué de
train (TCN) - Partie 2-8 : Essai de conformité TCN
(IEC 61375-2-8:2021)

Elektronische Betriebsmittel für Bahnen - Zug-
Kommunikations-Netzwerk (TCN) - Teil 2-8: TCN-
Konformitätsprüfung
(IEC 61375-2-8:2021)

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European foreword

The text of document 9/2746/FDIS, future edition 1 of IEC 61375-2-8, prepared by IEC/TC 9 “Electrical equipment and systems for railways” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61375-2-8:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-08-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-11-29

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Endorsement notice

The text of the International Standard IEC 61375-2-8:2021 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60571	2012	Railway applications - Electronic equipment used on rolling stock	-	-
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2012
IEC 61076-2-101	2012	Connectors for electronic equipment - Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	EN 61076-2-101	2012
IEC 61076-3-104	-	Connectors for electrical and electronic equipment - Product requirements - Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz	EN 61076-3-104	-
IEC 61156-6	-	Multicore and symmetrical pair/quad cables for digital communications - Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Sectional specification	-	-
IEC 61375-1	2012	Electronic railway equipment - Train communication network (TCN) - Part 1: General architecture	EN 61375-1	2012
IEC 61375-2-1	2012	Electronic railway equipment - Train communication network (TCN) - Part 2-1: Wire Train Bus (WTB)	EN 61375-2-1	2012
IEC 61375-2-3	2015	Electronic railway equipment - Train communication network (TCN) - Part 2-3: TCN communication profile	EN 61375-2-3	2015
-	-		+ A11	2017

EN IEC 61375-2-8:2021 (E)

IEC 61375-2-5	2014	Electronic railway equipment - Train communication network (TCN) - Part 2–5: Ethernet train backbone	EN 61375-2-5	2015
IEC 61375-3-4	2014	Electronic railway equipment - Train communication network (TCN) - Part 3–4: Ethernet Consist Network (ECN)	EN 61375-3-4	2014
-	-		+ A11	2017
ISO/IEC 9646-1	1994	Information technology - Open Systems Interconnection - Conformance testing methodology and framework – Part 1: General concepts	-	-
ISO/IEC 9646-7	1995	Information technology - Open Systems Interconnection - Conformance testing methodology and framework – Part 7: Implementation conformance statements	-	-
ISO/IEC 11801	(series)	Information technology - Generic cabling for customer premises	-	-
IEEE 802.1AB	2009	Station and Media Access Control Connectivity Discovery	-	-
IEEE 802.1AX	2008	IEEE Standard for Local and metropolitan area networks - Link Aggregation	-	-
IEEE 802.1Qaz	2011	IEEE Standard for Local and metropolitan area networks - Enhanced Transmission Selection	-	-
IEEE 802.1D	1990	IEEE Standard for local and metropolitan area networks - Media Access Control (MAC) Bridges	-	-
IEEE 802.1Q	-	IEEE Standard for Local and metropolitan area networks – Virtual Bridged Local Area Networks	-	-
IEEE 802.2	-	Logical Link Control	-	-
IEEE 802.3	2012	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access	-	-
IEEE 802.3az	-	Energy Efficient Ethernet	-	-
IETF RFC 768		User Datagram Protocol	-	-
IETF RFC 791		INTERNET PROTOCOL	-	-
IETF RFC 792		INTERNET CONTROL MESSAGE PROTOCOL		
IETF RFC 793		TRANSMISSION CONTROL PROTOCOL	-	-
IETF RFC 826		An Ethernet Address Resolution Protocol	-	-
IETF RFC 1034	-	DOMAIN NAMES – CONCEPTS AND FACILITIES	-	-
IETF RFC 1035	-	DOMAIN NAMES – IMPLEMENTATION AND SPECIFICATION	-	-

IETF RFC 1213	-	Management Information Base for Network - Management of TCP/IP-based Internets: MIB-II	-
IETF RFC 1305	-	Network Time Protocol (Version 3) - Specification, Implementation and Analysis	-
IETF RFC 1361	-	Simple Network Time Protocol (SNTP)	-
IETF RFC 1901	-	Introduction to Community-based SNMPv2	-
IETF RFC 1905	-	Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)	-
IETF RFC 1906	-	Transport Mappings for Version 2 of the Simple Network Management Protocol (SNMPv2)	-
IETF RFC 1918	-	Address Allocation for Private Internets	-
IETF RFC 2131	-	Dynamic Host Configuration Protocol	-
IETF RFC 2236	-	Internet Group Management Protocol, Version 2	-
IETF RFC 2365	-	Administratively Scoped IP Multicast	-
IETF RFC 2474	-	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	-
IETF RFC 2544	-	Benchmarking Methodology for Network Interconnect Devices	-
IETF RFC 3203	-	DHCP reconfigure extension	-
IETF RFC 3986	-	Uniform Resource Identifier (URI): Generic Syntax	-
IETF RFC 4122	-	A Universally Unique Identifier (UUID) URN Namespace	-
TIA/EIA-568-B	-	Commercial Building Telecommunications - Cabling Standard	-
ANSI X3.263	1995	Information Technology - Fibre Distributed - Data Interface (FDDI) – Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD)	-



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Part 2-8: TCN conformance test**

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