

**OFFICIAL CATALOGUE OF STANDARDS IN
 CENELEC / TC9X**

Title of TC9X: Electrical and electronic applications for railways

Scope of TC9X: Standardisation of electrical and electronic systems, equipment and associated software for use in all railway applications, whether on vehicles or fixed installations, including urban transport

Documents	Pages
Documents directly steered by TC 9X	2, 3, 4
Documents steered by CLC / SC 9XA	5, 6
Documents steered by CLC / SC 9XB	7, 8, 9, 10
Documents steered by CLC / SC 9XC	11, 12, 13, 14
Documents steered by TC 256 (under Modes 4 & 5)	15
Documents steered by CLC / TC 20 (cables) and TC 21X (batteries)	16,17
Documents steered by IEC / TC 9	Refer to CLC/TC9X(Sec)383 on Merging Strategy

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents directly steered by TC 9X				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
	EN 50155 (2 nd edition) + AA EN 50155 revised	(RA) – Electronic equipment used on rolling stock	M/024+				X X X	Published (2001) Published (2002) Published (2007)	IEC 60571
	EN 50261	(RA) – Mounting of electronic equipment					X	Published (1999) To be withdrawn	
	EN 50207 EN 61287-1	(RA) – Electronic power convertors for rolling stock	M/024				X X	Published (2000) Published (2006)	IEC 61287 Maintenance cycle
WG 9	EN 50121-1	(RA) – Electromagnetic compatibility (EMC) - Part 1: General	M/024+				X	Published (2000)	IEC 62236-1
	EN 50121-2	Part 2: Emission of the whole railway system to the outside world	M/024+				X	Published (2000)	IEC 62236-2
	EN 50121-3-1	Part 3: Rolling stock - Train and complete vehicle	M/024+				X	Published (2000)	IEC62236-3-1
	EN 50121-3-2	Rolling stock apparatus	M/024+				X	Published (2000)	IEC62236-3-2
	EN 50121-4	Part 4: Signalling, communications	M/024+				x	Published (2000)	IEC 62236-4
	EN 50121-5	Part 5: Fixed installations	M/024+				x	Published (2000)	IEC 62236-5
		Revision of the series					x	Published (2006)	
		All parts: Corrigenda to refer only to the latest EMC Directive 2004/108/EC					x	Published (2008)	
	R009-003 (ex 50127-1)	(RA) – Guide to the specification of a guided transport system					x	Published (1998) Withdrawn (2006)	
WG 8	EN 50126 (renumbering into EN 50126-1) TR 50126-2	(RA) – The Specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Application guide for safety	M/024+				x x	Published (1999) Corrigendum published (2006) Published (2007)	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents directly steered by TC 9X (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
	EN 50163 (2 nd edition)	(RA) – Supply voltages of traction systems	M/275				x	Published (2004)	IEC 60850
	EN 50124-1	(RA) – Insulation coordination - Part 1 – Basic requirements – Clearances and creepage distances for all electrical and electronic equipment	M/024+				x	Published (2001)	
	EN 50124-1 / A1	Addition of an informative annex to EN (Application guide on insulation coordination and creepage distances)					x	Published (2003)	
	EN 50124-1 / A2	Revision of Tables A.2, B.1 and D.1					x	Published (2005)	
	EN 50124-1	Corrigendum						Published (2007)	
	EN 50124-2	Part 2 – Overvoltages and related protections	M/024+				x	Published (2001)	
	EN 50125-1	(RA) – Environmental conditions for equipment - Part 1 – Equipment on board rolling stock	M/275				x	Published (1999)	
	EN 50125-2	Part 2 – Equipment in fixed installations	M/275				x	Published (2002)	
	EN 50125-3	Part 3 – Equipment for signalling and communications	M/275				x	Published (2003)	
	R009-002	(RA) – Guide for the use of the terminology for testing procedures					x	Published (1998) Withdrawn (2006)	
WG 10	EN 50500	(RA) – Human exposure to electromagnetic fields					x	Published (2008)	
WG 11	EN 50463	(RA) – Energy measurement on board trains Extension of scope decided					x	Published (2007)	
	prEN 50463-1	(RA) – Energy measurement on board trains Part 1 – General		X		10/09		Secretariat enquiry in progress	
	prEN 50463-2	(RA) – Energy measurement on board trains Part 2 – Energy meter		X		10/09		Secretariat enquiry in progress	
	prEN 50463-3	(RA) – Energy measurement on board trains Part 3 – Input/output interfaces		X		10/09		Secretariat enquiry in progress	
	prEN 50463-4	(RA) – Energy measurement on board trains Part 4 – Communication onboard/ground		X		10/09		Secretariat enquiry in progress	
	prEN 50463-5	(RA) – Energy measurement on board trains Part 5 – Conformance testing procedure		X		10/09		Secretariat enquiry in progress	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents directly steered by TC 9X (continuation)			Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG 12	prTR 50542	(RA) – Communication means between safety equipment and man machine interface (MMI) To be published as a TR			09/10	x	Voted, to be published	
WG 13	prEN 50xxx	(RA) – Requirements to provide running capability in case of fire on board of rolling stock (PR=20779)		x	10/06		CLC enquiry to be launched	
WG 14	prEN 50126-1 prEN 50126-2 prEN 50126-4 prEN 50126-5	(RA) – The specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Full revision according to SG14 results			11/03		NWI agreed by BT Work started	
WG 14	prEN 50155	(RA) – Electronic equipment used on rolling stock Revision to be consistent with revised EN 50126 series			11/03		NWI agreed by BT Work started	
SG 14		Extension of scope of safety related standards					Work finished (2007)	
JSG Safety		Scope of a Safety Management Standard and input to SG14					Results passed to ERA (2007)	
Ad-hoc group	IEC 60077-3 IEC 60077-4	(RA) – Electric equipment for rolling stock – Electrotechnical components – Rules for d.c. (Part 3) and a.c. (Part 4) circuit-breakers To produce a contribution, based on Modtrain results, to IEC to be conveyed through a National Committee, for the maintenance of these Standards					Work item cancelled. Group disbanded	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XA (Signalling)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG A11	EN 50128 prEN 50128	(RA) – Communication, signalling and processing systems - Software for railway control and protection systems Revision decided	+		x	08/12	x	Published (2001) CLC Enquiry in progress See EN 50126-5	IEC 62279
WG A2-3	EN 50129	(RA) – Communication, signalling and processing systems - Safety related electronic systems for signalling Revision Application guide for EN 50129 split in two parts (see below)	+				x	Published (2003) See EN 50126-4	
WG A2-3	PrTR 50506-1	Guide for cross-acceptance (former chapter 8)					x	Published (2007)	
WG A2-3	prTR 50506-2	Guide for safety assurance (other chapters)					x	Published (2009)	
WG A12	EN 50159- 1 EN 50159- 2 EN 50159	(RA) – Communication, signalling and processing systems - Safety related communication in closed transmission systems Safety related communication in open transmission systems Revision of both parts to be merged in a single standard	M/275 M/275			x	x x	Published (2001) Published (2001) Draft ready for vote	
WG A4-2	EN 50238-1 TS50238-2 TS50238-3 TS 50xxx TR 50507	(RA) – Communication, signalling and processing systems - Compatibility between rolling stock and train detection systems General Compatibility with track circuits Compatibility with axle counters Characteristics of trackside train detection systems Interference limits of existing track circuits used on European railways	M/275			x x 09/12	x x	Published (2003) Draft ready for vote Draft ready for vote Pending input from ERA Published (2007)	
	EN 50239	(RA) – Communication, signalling and processing systems - Radio remote control system of traction vehicle for freight traffic SE & RO corridendum to include their national conditions	M/024				x	Published (1999) Published	
	EN 50121-4	see EMC in page 2							
	EN 50125-3	see environmental conditions for equipment in page 3							

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XA (Signalling) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG A9-D	TS 50459-1 to 6	ERTMS Functional aspects of driver-machine interface	M/275			x		Published 2005	
		Revision to be decided in coordination with ERA							
WG A9-D	prTR 50459-7	Part 7: Specific Transmission Modules					x	Published 2007	
WG A9-D	TR 50511	External signalling for lines equipped with ERTMS Level 2					x	Published 2007	
x	Pr EN 50517	Definition of track-side objects in addition to cab-signalling					x	Voted, ratification on hold pending input from ERA New ERA RfS transferred to CEN/TC256	
	R009 004	Systematic allocation of safety integrity requirements					x	Published (2001)	
	TR 50451	Supersedes R009 004					x	Published (2007)	
	R009 005	Radio remote control system of traction vehicle for freight traffic in multiple traction operation					x	Published (2001)	
	TR 50452	Supersedes R009 005					x	Published (2007)	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XB (Rolling stock)				Stage 3020	Stage 4000	Stage 5000	Stage 5099	Comments	Links
EN 60310 Ed3	(RA) – Rolling stock – Traction transformers and inductors	M/024					x	EN following // vote. Published (2004)	IEC 60310 : 2004
EN 60322	(RA) – Electric equipment for rolling stock – Rules for power resistors of open construction						x	EN following // vote. Published (2001)	IEC 60322
EN 61373	(RA) – Rolling stock equipment – Shock and vibration tests						x	EN following // vote. Published (1999)	IEC 61373
Revision						x		New amendment to be submitted after comments from // vote	
EN 61881	(RA) – Rolling stock equipment – Capacitors for power electronics						x	EN following // vote. Published (1999)	IEC 61881
EN 61881-1	Part 1: Requirements, tests and general information					x		Vote to be launched	
EN 60349-1 + A1	(RA) – Rolling stock – Rotating electrical machines for rail and road vehicles - Part 1: Machines other than electronic convertor-fed a.c. motors						x	EN following // vote. Published (2000)	IEC 60349-1
Revision						x		Published (2002)	IEC 60349-1
						x		Vote in progress	
EN 60349-2	Part 2: Electronic convertor fed a.c. motors	M/024					x	Published (2001)	IEC 60349-2 : 1993, modified
Revision						x		Vote in progress	
EN 61377-1	(RA) – Rolling stock – Combined testing of inverter-fed alternating current motors and their controls						x	Published (2006)	IEC 61377-1
EN 61377-2	(RA) – Rolling stock – Combined testing – Part 2 : Chopper-fed d.c. traction motors and their control						x	EN following // vote. Published (2002)	IEC 61377-2
EN 61377-3	(RA) – Rolling stock – Combined testing – Part 2 : a.c. traction motors fed by an indirect convertor and their control						x	EN following // vote. Published (2002)	IEC 61377-3
EN 50153 (2 nd Ed)	(RA) – Rolling stock – Protective provisions relating to electrical hazards	+					x	Published (2002)	IEC 61991

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XB (Rolling stock) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
	EN 50206-1	(RA) – Rolling stock – Pantographs : Characteristics and tests - Part 1: Pantographs for main line vehicles	M/024 +				x	Published (1998)	IEC 60494
WGB16		Maintenance					x	Voted	
WGB16	EN 50206-2	Part 2: Pantographs for metros and light rail vehicles	M/024				x	Published (1999)	IEC 60494
WGB16		Maintenance					x	Voted	
WGB16	EN 50206-3	Interface between pantograph and rolling stock for rail vehicles			x	09/11		Comment form enquiry under consideration. Will be proposed to be voted as TS	
WGB16		(RA) – Rolling stock – Interface between TCMS and Pantographs						Stage zero	
	EN 50215	(RA) – Rolling stock – Testing of rolling stock after completion of construction and before entry into service	M/024 +				x	Published (1999)	TC256
WG-B5		Revision					x	Published (2009)	IEC 61133 IEC 61133 revised
	EN 50311	(RA) – Rolling stock – D.C. supplied electronic ballasts for lighting fluorescent lamps for rolling stock					x	Published (2003)	IEC/SC34C CLC/TC34Z
	EN 50343	(RA) – Rolling stock – Rules for cabling of vehicles					x	Published (2003)	TC20 / WG12
	prEN 50343	Revision				11/12		Work started	
WG B9	EN 50439-x	(RA) – Rolling stock – Reliability tests for high power semiconductor devices – Part 1 : Standard base-plate modules Part 1 : Standard base-plate modules Part 2 : Integrated water-cooled modules Part 3 : Multi-chip Presspack						All parts stopped	
	EN 50125-1	see Environmental conditions for equipment in page 3							
WG B27	Revision					11/10		Work started	
	EN 50121-3-1	see EMC in page 2							
	EN 50121-3-2	see EMC in page 2							
WG B10 disbanded	EN 50405	(RA) – Rolling Stock – Pantographs, testing methods for carbon contact strips					x	Published (2006)	
WG B11	TR 50126-3	(RA) – Rolling Stock – Application guide for EN50126-1					x	Published (2006)	TC 256, WG 5B
		Revision decided					x	Published (2008)	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XB (Rolling stock) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage 5099	Comments	Links
	EN 60077-1 EN 60077-2 EN 60077-3	(RA) – Rolling Stock – General service conditions and general rules (RA) – Rolling Stock – Electrotechnical components – General rules (RA) – Electric equipment for rolling stock – Part 3 : Rules for DC circuit-breakers	M/024				x x x	Published (2002) Published (2002) EN following // vote. Published (2002)	IEC 60077-1 IEC 60077-2 IEC 60077-3
	EN 60077-4	(RA) – Electric equipment for rolling stock – Part 4 : Rules for AC circuit-breakers					x	EN following // vote. Published (2003)	IEC 60077-4
	EN 60077-5	(RA) – Electric equipment for rolling stock – Part 5 : Electrotechnical components – Rules for HV fuses					x	EN following // vote. Published (2003)	IEC 60077-5
SG B17	TS 50467	(RA) – Rolling Stock – Electrical connectors Survey group to decide about a normative annexB and move to EN					x	Published (2008)	
WG B13	EN 50467	(RA) – Rolling Stock – Electrical connectors			x	10/06		CLC enquiry in progress	
WG B14	TR 50501-1	(RA) – Rolling Stock – Intercommunication between vehicles and train/wayside – Part 1 : Data dictionary and rules for functional standardisation					x	Published (2007)	
	TR 50501-2	(RA) – Rolling Stock – Intercommunication between vehicles and train/wayside – Part 2 : Technical contents of standardization work in the field of intercommunication						Work started	
WG B15	TS 50502	(RA) – Rolling Stock – Requirements for electrical equipment on board trolleybuses and main characteristics of the connection system to the overhead contact line Revision decided to take into account German and Polish comments					x x	Published (2007) Published (2008)	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XB (Rolling stock) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG B18	EN 50533	(RA) – Rolling Stock – Three-phase train line voltage characteristics			x	09/12		CLC enquiry to be launched	
WG B19	EN 50xxx	(RA) – Rolling Stock – Shore (external) supply system for rail vehicles.				09/12		Work started	
WG B20	EN 50547	(RA) – Rolling Stock – Batteries for auxiliary power supply systems.				10/12		Work started	
WG B22	TS 50534	(RA) – Rolling Stock – Generic System Architecture for onboard electric supply systems.				x		Vote in progress	
WG B23	TS 50537-1	(RA) – Rolling Stock – Mounted parts of the traction transformer and cooling system Part 1 – HV bushing for traction transformers				x		Vote in progress	
WG B24	TS 50537-2	Part 2 – Pump for insulating liquid for traction transformers and reactors				x		Vote in progress	
WG B25	TS 50537-3	Part 3 – Coolant (water) pump for traction transformers				x		Vote in progress	
WG B26	TS 50537-4	Part 4 – Gas and oil actuated (Buchholz) relay for liquid immersed transformers and reactors with conservator for rail vehicles				x		Vote in progress	
WG B21	TS 50535	(RA) – Rolling Stock – Onboard auxiliary power converter systems.				x		Vote in progress	
	EN 50XXX	(RA) – Rolling Stock – Functional Interface Specification (FIS) between the Train Control and Monitoring System (TCMS) and the pantograph						Preliminary Work Item	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XC (Fixed installations)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WGC1	EN 50122- 1	(RA) – Fixed installations- Electrical safety, earthing and bonding - Part 1: Protective provisions relating to electrical safety and earthing	M/024+				x	Published (1997)	IEC 62128-1
	Rev part 1	Part 1 : Protective provisions against electric shock				x		Vote to be launched	
WGC1	EN 50122- 2	Part 2: Protective provisions against the effects of stray currents caused by d.c. traction systems	M/024+				x	Published (1998)	IEC 62128-2
	EN 50122-2/A1						x	Published (2002)	
WGC1	Rev part 2	Part 2 : Provisions against the effects of stray currents caused by d.c. traction systems				x		Vote to be launched	
WGC1	EN 50122-3	Part 3: Mutual interaction of a.c. and d.c. traction systems				x		Vote to be launched	
WG C13	EN 50119	(RA) – Fixed installations – Electric traction overhead contact lines	M/024+				x	Published (2001)	
	Rev Amendement	Revision of EN 50119			x	13/11	X	Published (2009) Draft for vote in preparation	
WG-C13	EN 50149	(RA) – Fixed installations – Copper and copper-alloy grooved contact wires for overhead contact lines	M/024+				x	Published (2001)	
	Revision				x	10/12		CLC enquiry in progress	
	EN 50151	(RA) – Fixed installations – Special requirements for composite insulators	M/024				x	Published (2003)	CLC / TC 36
WG C15	EN 50345	(RA) – Fixed installations – Insulating synthetic rope assemblies for support of overhead contact lines					x	Published (2004)	
		Revision decided					x	Published (2009)	

(RA): Railway applications

Documents steered by SC 9XC (Fixed installations) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WGC 18	EN 50152- 1	(RA) – Fixed installations – a.c. switchgear – Particular requirements for a.c. switchgear - Part 1: Single phase circuit breakers with U_m above 1000V Full technical updating	M/024				x	Published (2007)	
	revision				09/12		Work in progress		
WGC 18	EN 50152- 2	Part 2: Single phase disconnectors, earthing switches and switches with U_m above 1000V Full technical updating	M/024				x	Published (2007)	
	revision				09/12		Work in progress		
	EN 50152- 3	Part 3: Measurement, control and protection devices for specific use in a.c. traction systems - Part 3-1 : Application guide Part 3-2: single-phase current transformers Part 3-3: single-phase voltage transformers							
	EN 50152- 3- 1					x	Published (2003)		
	EN 50152- 3- 2					x	Published (2001)		
	EN 50152- 3- 3					x	Published (2001)		
WG C16	EN 50123- 1	(RA) – Fixed installations - d.c. switchgear - Part 1: General Part 2: d.c. circuit breakers Part 3: Indoor d.c. – disconnectors and switch disconnectors Part 4: Outdoor d.c. in-line switch-disconnectors and d.c. earthing switches Part 5: Surge arresters and low- voltage limiters for specific use in d.c. traction systems Revision decided	M/024+				x	Published (2003)	IEC 61992-1 IEC 61992-2 IEC 61992-3
	EN 50123- 2		M/024				x	Published (2003)	
	EN 50123- 3		M/024				x	Published (2003)	
	EN 50123- 4		M/024				x	Published (2003)	
	EN 50123- 5						x	Published (2003)	
	prEN 50123- 5								To be replaced by EN 50526-1
	EN 50123- 6	Part 6: d.c. switchgear assemblies Part 7: Measurement, control and protection devices for specific use in d.c. traction systems Part 7-1: Application guide Part 7-2: Isolating current transducers and other current measuring devices Part 7-3: Isolating voltage transducers and other voltage measuring devices	M/024				x	Published (2003)	
	EN 50123-7-1						x	Published (2003)	
	EN 50123-7-2						x	Published (2003)	
	EN 50123-7-3						x	Published (2003)	
WG C16	prEN 50123- 8	Railway applications – Fixed installations – D.C. switchgear – Part 8: voltage limiting devices for the return circuit of railways						To be replaced by EN 50526-2	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XC (Fixed installations) (continuation)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG C16	prEN 50526-1	Railway Applications - Fixed Installations – d.c. surge arresters and voltage limiting devices: Part 1 - Surge arresters - to supersede EN 50123-5			x	08/12		Comments from CLC enquiry under consideration Work in progress	
	prEN 50526-2	Part 2 - Voltage limiting devices - to replace the proposed EN 50123-8				09/12			
		(RA) - Fixed installations - d.c. switchgear -							
	EN 50121-5	see EMC in page 2							
	EN 50327	(RA) - Fixed installations – Harmonization of the rated values for converter groups and tests on converter groups					x	Published (2003)	
	EN 50327 / A1	Determination of the voltage drop and the short circuit currents of converter groups					x	Published (2005)	
	EN 50328	(RA) - Fixed installations – Electronic power converters for substations Corrigendum					x	Published (2003) Published (2006)	
		(RA) - Fixed installations - Current collection systems -							
	EN 50318	Validation of simulation of the dynamic interaction between overhead contact line and pantograph	M/275				x	Published (2002)	
WG C9	EN 50317	Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line	M/275				x	Published (2002)	
WG C7	prA2	Amendment A2					x	Published (2007)	
		Revision				10/12		Work started	
	EN 50125-2	see Environmental conditions for equipment in page 3							
WG C9	EN 50367	(RA) - Technical criteria for the interaction between pantograph and overhead contact lines (to achieve free access)	M/275				x	Published (2006)	
WG C9	EN 50367	Amendment decided						To be incorporated in the revision	
WG C9	prA1								
	EN 50367	Revision			x	10/12		Comments from CLC enquiry in progress	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by SC 9XC (Fixed installations) (continuation)			Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
WG C10	EN 50329	(RA) - Fixed installations - Traction transformers Corrigendum				x	Published (2003) Published (2006)	
	PrA1	Amendment decided			x		Voted, to be ratified	
WGC 17	PrTS 50xxx	(RA) – Fixed installation – Electrical safety Safety Management for Fixed Installations			11/03		Work started	
WG C11	EN 50388	(RA) - Power supply, and rolling stock - Technical criteria for the coordination between power supply and rolling stock to achieve interoperability -	M/275			x	Published (2005)	
	Revision	Amendment decided, to be incorporated in a new edition			x		Vote to be launched	
WG C11	EN 50163 prAA	(RA) – Supply voltages of traction systems , See in page 3 Amendment decided				x	Published (2007)	
JWG SC9XC TC210	prEN 50443	(RA) - Fixed installations - Effects of electromagnetic interferences caused by a.c. railway lines on pipelines - Admissible values and protection measures					6MP results treated WGC12 disbanded	
	prEN 50443	(RA) - Fixed installations - Effects of electromagnetic interferences caused by a.c. railway lines on pipelines - Admissible values and protection measures		x	08/05		CLC enquiry results under consideration	
WG C14	TR 50488	(RA) - Fixed installations - Electric traction – Safety measures for personnel working near Overhead Contact Lines				x	Published (2006)	
WG C19	EN 50xxxx	(RA) - Fixed installations - Requirements and testing methods for Sectioning Devices in the view of Interoperability Constituent			13/11		NWI approved by BT	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by CEN / TC256 linked to TC9X under Mode 4 or Mode 5				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
JWG FSR	TS 45545-1	(RA) - Fire Safety - Part 1: General rules Part 2: Requirements for fire behaviour of materials and components Part 3: Fire resistance requirements for fire barriers and partitions Part 4: Fire safety requirements for railway rolling stock design Part 5: Fire safety requirements for electrical equipment including that of trolley busses Part 6: Fire control and management systems Part 7: Fire safety requirements for flammable liquid and gas installations	M/275				x	Published (2009)	TC9X, Mode 5
JWG FSR	TS 45545-2						x	Published (2009)	TC9X, Mode 5
JWG FSR	TS 45545-3						x	Published (2009)	TC9X, Mode 5
JWG FSR	TS 45545-4						x	Published (2009)	TC9X, Mode 5
JWG FSR	TS 45545-5						x	Published (2009)	TC9X, Mode 5
JWG FSR	TS 45545-6						x	Published (2009)	TC9X, Mode 5
JWG FSR (disbanded)	TS 45545-7						x	Published (2009)	TC9X, Mode 5
	EN 45545	Conversion of TS45545 series in an EN series			x		Formal enquiry to be launched		
	EN 13146-5	(RA) - Fastening systems-Test methods for fastening systems - Part 5: Determination of electrical resistance	M/275				x	Published (2002)	TC 9X, Mode 4
WG 19	EN 15016-1 EN 15016-2 EN 15016-3 EN 15016-4	(RA) - Technical Drawings - Part 1: General principles Part 2: Parts lists Part 3: Modifications of technical documents Part 4: Exchange of data	M/024				x x x x	Published (2004) Published (2004) Published (2004) Published (2006)	TC 9X, Mode 4
	EN 13452-1 EN 13452-2	(RA) - Braking - Mass transit brake systems - Part 1: Performance requirements Part 2: Methods of test	M/024				x x	Published (2003) Published (2003)	TC 9X, Mode 4
	EN 14478	(RA) - Braking - Generic vocabulary	M/024				x	Published (2005)	
WG27	EN 14752 WI 00256248	(RA) - External doors for rail vehicles (RA) – Bodyside entrance systems Revision with scope extended to control and monitoring systems	M/275	x			x	Published (2005) Revision started TC256 will not extend the scope	TC 9X, Mode 4
WG45		(RA) – Design and test for rolling stock in severe weather conditions							TC 9X, Mode 4
WG22		(RA) – Magnetic track brakes							TC 9X, Mode 4
WG22		(RA) – Eddy current brakes							TC 9X, Mode 4
WG37		(RA) – Driving cab							TC 9X, Mode 4
WG36		(RA) – Passenger Alarm							TC 9X, Mode 4

(RA): Railway applications

Documents steered by CLC / TC20 (Cables)				Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
		(RA) - Railway rolling stock cables having special fire performance -							
WG12		Standard Wall -							
	EN 50264-1	Part 1: General requirements					x	Published (2002)	
	EN 50264-2	Part 2: Single core cables					x	Published (2002)	
	EN 50264-3	Part 3: Multi core cables					x	Published (2002)	
	EN 50264	Revision of all parts					x	Published	
	EN 50355	Guide to use Revision following publication of EN 50382					x	Published (2003) Published	
	EN 50305	Test methods Revision to be decided					x x	Published (2002) Published	
WG 12		Thin Wall -							
	EN 50306-1	Part 1: General requirements					x	Published (2002)	
	EN 50306-2	Part 2: Single core cables					x	Published (2002)	
	EN 50306-3	Part 3: Single core and multi core cables (Pairs, Triples and Quads) screened and Thin Wall Sheathed					x	Published (2002)	
	EN 50306-4	Part 4: Multicore and multipair cables, Standard Wall Sheathed					x	Published (2002)	
	EN 50382-1	High temperature power cables - Part 1 : General requirements					x	Published (2008)	
	EN 50382-2	High temperature power cables - Part 2 : Single core silicone rubber insulated cables for 120°C or 150°C					x	Published (2008)	
	EN 50382-3	Decision to create this new part to be taken					x	Published	

(RA): Railway applications

CATALOGUE OF STANDARDS OF CENELEC / TC9X

January 2010

Documents steered by IEC / TC21 or CLC / TC21X (Batteries)			Stage 3020	Stage 4000	Stage 5000	Stage. 5099	Comments	Links
IEC / TC 21		Lead- acid traction batteries -						
	HD 465- 1	Part 1: General requirements and methods of tests						
	HD 465- 2	Part 2: Dimensions of cells and terminals and marking of polarity on cell						
WG 1 of CLC/TC21X		Safety regulations for batteries and battery installations					<ul style="list-style-type: none"> - All means of transport (cars...) - Lead-acid and NiCd - Work in // with CEN and IEC 	

(RA): Railway applications