

INTERNATIONAL STANDARD



Railway applications – Fixed installations – Electric traction overhead contact lines systems





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RAILWAY APPLICATIONS – FIXED INSTALLATIONS –
ELECTRIC TRACTION OVERHEAD CONTACT LINE SYSTEMS**

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This third edition cancels and replaces the second edition published in 2013. This edition constitutes a technical revision.

The European standard EN 50119 has served as a basis for the elaboration of this document.

This edition includes the following significant technical changes with respect to the previous edition:

- a) title modified;
- b) requirements for urban rail systems are included;
- c) requirements for rigid overhead contact line (ROCL) are included;
- d) additional definitions for new terms are included (Clause 3);

- e) clearances and geometry of overhead contact line are improved (Clause 5);
- f) urban aspects are added, for example wall anchors (Clause 6);
- g) requirements for monitoring devices, automatic earthing and short-circuiting equipment are included (Clause 7);
- h) requirements for overhead contact line for electric vehicles with pantograph on electrified roads are added (Annex E)
- i) improvements on the basis of EN 50119:2020 and the questionnaire 9/2619A/Q

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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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