ICS 29.120.10 TECHNICKÁ NORMALIZAČNÁ INFORMÁCIA August 2017

TNI	**Elektromagnetické vlastnosti systému pozdĺžneho uloženia káblov**	**TNI CLC/TR 50659** 37 0020

Electromagnetic characteristics of linear cable management systems (CMS)

Táto technická normalizačná informácia obsahuje anglickú verziu CLC/TR 50659:2017.
This Technical standard information includes the English version of CLC/TR 50659:2017.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 07/17

125246

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CLC/TR 50659

March 2017

ICS 29.120.10

English Version

Electromagnetic characteristics of linear cable management systems (CMS)

Rapport Technique - Caractéristiques électromagnétiques des systèmes linéaires de câblage

Elektromagnetische Eigenschaften von linearen Kabelführungssystemen

This Technical Report was approved by CENELEC on 2017-03-06.

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

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Ref. No. CLC/TR 50659:2017 E

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European foreword

This document (CLC/TR 50659:2017) has been prepared by CLC/TC 213, “Cable management systems”.

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

This Technical Report provides test methods for the measurement of electromagnetic characteristics of linear Cable Management Systems (CMS).

This is a European Technical Report for cable management products used for electro-technical purposes. It relates to the Council Directives on the approximation of laws, regulations and administrative provisions of the Member States relating to Low Voltage Directive 2014/35/EU through consideration of the essential requirements of this Directive.

This European Technical Report is supported by separate standards to which references are made.

1 Scope

This Technical Report provides test methods for the measurement of the following electromagnetic characteristics of lengthwise cable management systems like conduit systems according to EN 61386 series, cable trunking systems and cable ducting systems (CTS/CDS) according to EN 50085 series and cable tray and cable ladder systems according to EN 61537:

— shielding effectiveness of magnetic field,

— transfer impedance.

This Technical Report also provides guidance on how these characteristics can be declared and may be used.

Powertrack systems covered by EN 61534 series are not covered by this edition of the Technical Report and may be considered in a new edition.

2 Normative references

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

EN 61000-4-5, *Electromagnetic Compatibility (EMC) — Part 4-5: Testing and measurement techniques — Surge immunity test (IEC 61000-4-5)*

EN 61000-5-7, *Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines - Degrees of protection by enclosures against electromagnetic disturbances (EM code)*