PD CLC/TR 50658:2022

BSI Standards Publication

Cable management systems (CMS) providing support for cables with intrinsic fire resistance

bsi.

National foreword

This Published Document is the UK implementation of CLC/TR 50658:2022.

The UK participation in its preparation was entrusted to Technical Committee PEL/213, Cable management.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

Published by BSI Standards Limited 2022

ISBN 978 0 580 92141 4

ICS 13.220.50; 29.060.20; 91.140.50

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 October 2022.

Amendments/corrigenda issued since publication

Date	Text affected

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER REPORT

CLC/TR 50658

September 2022

ICS 13.220.50; 29.060.20; 91.140.50

English Version

Cable management systems (CMS) providing support for cables with intrinsic fire resistance

Systèmes de câblage servant à soutenir les câbles à résistance intrinsèque au feu

Führungssysteme für Kabel und Leitungen (CMS) zur Verlegung von Kabeln mit inhärentem Feuerwiderstand

This Technical Report was approved by CENELEC on 2022-09-12.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

CLC/TR 50658:2022 (E)

Contents

Page

Figures

Page

Tables

Page

European foreword

This document (CLC/TR 50658:2022) 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.

Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

Introduction

The purpose of the test detailed in this document is to evaluate the ability of a Cable Management System (CMS) to support cables with intrinsic fire resistance enabling them to maintain their function for a specified time period whilst exposed to fire. The test is conducted under conditions of a standard time/temperature curve when installed in a standardised representative condition.

This document for cable management products is used for electrotechnical 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 the Directive.

This document is supported by separate standards to which references are made.

1 Scope

This document specifies test methods for cable management systems intended (CMS) to provide support for intrinsic fire-resistant cables in order to determine their abilities to maintain the function of electrical power cables and signal/control cables for a specified duration when subjected to fire under defined conditions.

This document establishes a non-hierarchical classification for this ability.

Additional devices to fix the cable management systems providing fire resistant support (CMS-support) to the building structure for example screws, anchors etc. are not covered by this document.

CMS intended to provide support and fire protection for cables are tested according to EN 1366-11.

This document does not apply to powertrack systems.

NOTE Rules for testing CMS-support for fibre optic cables and communication cables are under consideration.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1
cable management system
(CMS)
assembly including different system components intended for the accommodation of insulated conductors, cables and other electrical equipment in electrical and/or communication systems

Note 1 to entry: Examples of CMS or CMS products are cable tray systems, mesh cable tray systems, cable ladder systems, cable trunking systems, conduit systems, cable ducting systems, cable cleats, cable ties.

3.2
cable management system providing fire resistant support
(CMS-Support)
cable management system providing support for cables with intrinsic fire resistance to maintain their function for a specified time period under defined test conditions

Note 1 to entry: Support of the cables may be provided for example by suitable cable tray systems, mesh cable tray systems, cable ladder systems, cable trunking systems, conduit systems, cable ducting systems, cable cleats, cable ties.

3.3
product type
group of system components of similar design with limited variations

Note 1 to entry: Cable tray lengths and fittings, mesh cable tray lengths and fittings and cable ladder lengths and fittings - variation in width and/or variation in perforation of the base area of the tested product but not more than ± 5 % (e.g., if the tested product has a perforation of 15 % the group has to be between 10 % and 20 %).

Note 2 to entry: Cable trunking lengths and fittings - variation in width.