BS EN 50288-1:2013

BSI Standards Publication

Multi-element metallic cables used in analogue and digital communication and control -

Part 1: Generic specification

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National foreword

This British Standard is the UK implementation of EN 50288-1:2013. It supersedes BS EN 50288-1:2003 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

Multi-element metallic cables used in analogue and digital communication and control - Part 1: Generic specification

Câbles métalliques à éléments multiples utilisés pour les transmissions et les commandes analogiques et numériques - Partie 1: Spécification générique

Mehradrige metallische Daten- und Kontrollkabel für analoge und digitale Übertragung - Teil 1: Fachgrundspezifikation

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

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Foreword

This document (EN 50288-1:2013) has been prepared by CLC/SC 46XC "Multicore, Multipair and Quad Data communication cables," of CLC/TC 46X, "Communication cables".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-03-18
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2016-03-18

This document supersedes EN 50288-1:2003.

EN 50288-1:2013 includes the following significant technical changes with respect to EN 50288-1:2003:

- the addition of the MICE table;

- a number minor corrections and updating of references;

- the re-classification of ‘ELFEXT’ to ‘ACR-F’.

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

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1 Scope

When used together with EN 50290 and EN 50289, this European Standard covers cables for instrumentation, inter-connection of equipment and information technology cabling applications.

Cables for information technology cabling systems, covered by this and the sectional specification standards in the EN 50288 series are suitable for use in digital and analogue data systems meeting the requirements, for example, of EN 50090-2-1, EN 50090-3-1, EN 50098-1, EN 50098-2 and EN 50173.

Unless otherwise specified, all cables covered by this European Standard may be subjected to voltages greater than 50 V a.c or 75 V d.c. but not more than 300 V a.c. or 450 V d.c. and shall meet the essential requirements of the low voltage directive. Due to current limitation related to the conductor cross sectional area, they are not intended for direct connection to mains electricity supply. The maximum current rating per conductor is as stipulated in Table B.1 unless otherwise specified in the relevant sectional specification. IDCs are only designed for copper or metal coated copper.

Cabling elements as defined in 4.3 of this European Standard may be incorporated in hybrid construction cables together with coaxial or optical fibre cabling elements.

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 50173 series	*Information technology — Generic cabling systems*
EN 50289 series	*Communication Cables — Specifications for tests methods*
EN 50290-1-2	*Communication cables — Part 1-2: Definitions*
EN 50290-2 series	*Communication cables — Part 2: Common design rules and construction*
EN 50290-4-1	*Communication cables — Part 4-1: General considerations for the use of cables – Environmental conditions and safety aspects*
EN 60811 series	*Electrical and optical fibre cables —Test methods for non-metallic materials.*
EN ISO 6892-1	*Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*
HD 402 S2	*Standard colours for insulation for low-frequency cables and wires (IEC 60304)*
IEC 60028	*International standard of resistance for copper*

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in EN 50290-1-2 and EN 50173 series and the following apply:

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