



NSAI
Standards

Irish Standard
I.S. EN 50288-12-1:2017

Multi-element metallic cables used in analogue and digital communications and control - Part 12-1: Sectional specification for screened cables characterised from 1 MHz up to 2 000 MHz - Horizontal and building backbone cables

I.S. EN 50288-12-1:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 50288-12-1:2017 is the adopted Irish version of the European Document EN 50288-12-1:2017, Multi-element metallic cables used in analogue and digital communications and control - Part 12-1: Sectional specification for screened cables characterised from 1 MHz up to 2 000 MHz - Horizontal and building backbone cables

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EUROPEAN STANDARD

EN 50288-12-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Multi-element metallic cables used in analogue and digital communications and control - Part 12-1: Sectional specification for screened cables characterised from 1 MHz up to 2 000 MHz - Horizontal and building backbone cables

Câbles métalliques à éléments multiples utilisés pour les transmissions et les commandes analogiques et numériques - Partie 2-1: Spécification intermédiaire pour les câbles écrantés caractérisés de 1 MHz à 2 000 MHz - Câbles horizontaux et verticaux de bâtiment

Mehradrige metallische Daten- und Kontrollkabel für analoge und digitale Übertragung - Teil 12-1: Rahmenspezifikation für geschirmte Kabel für Frequenzen von 1 MHz bis 2 000 MHz - Kabel für Horizontal- und Steigbereich

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms, definitions, symbols and abbreviations.....	4
4 Cable construction.....	4
4.1 Conductor.....	4
4.2 Insulation.....	4
4.3 Cabling elements.....	4
4.4 Identification of cabling elements.....	4
4.5 Screening of cabling elements.....	5
4.6 Cable make-up.....	5
4.7 Filling compound.....	5
4.8 Interstitial fillers.....	5
4.9 Screening of the cable core.....	5
4.10 Moisture barriers.....	5
4.11 Wrapping layers.....	5
4.12 Sheath.....	5
5 Test methods and requirements for completed cables.....	5
5.1 General.....	5
5.2 Electrical tests.....	6
5.2.1 Low-frequency and d.c. electrical measurements.....	6
5.2.2 High-frequency electrical and transmission measurements.....	6
5.3 Mechanical tests.....	10
5.4 Environmental tests.....	11
5.5 Fire performance test methods.....	11
Annex A (normative) Maximum voltage, current and temperature rating for cables used for POE applications (ffs).....	12
Annex B (informative) Blank Detail Specification.....	13
B.1 General.....	13
B.2 Document details.....	13
B.3 Generic specification EN 50288-1.....	14
Bibliography.....	17

Tables

Table 1 — Low-frequency and d.c. electrical measurements.....	6
Table 2 — High-frequency electrical and transmission measurements.....	6
Table 3 — Mechanical tests.....	10
Table 4 — Environmental tests.....	11
Table A.1 — Maximum recommended voltage, current, current density and conductor temperature for cables when used for POE applications.....	12
Table B.1 — Blank detail specification for symmetrical pair/quad cables for digital communications.....	14

European foreword

This document (EN 50288-12-1:2017) has been prepared by WG 2 of 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 (dop) 2018-05-30
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2020-05-30
standards conflicting with this document
have to be withdrawn

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

EN 50288-12-1 is meant to be read in conjunction with EN 50288-1:2013.

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.

EN 50288-12-1:2017**1 Scope**

EN 50288-12-1 is a sectional specification for screened cables, characterised up to 2 000 MHz, to be used in horizontal and building backbone wiring for information technology, generic-cabling systems.

This sectional specification contains the electrical, mechanical, transmission and environmental performance characteristics and requirements of the cables when tested in accordance with the referenced test methods.

This sectional specification is to be read in conjunction with EN 50288-1, which contains the essential provisions for its application.

The cables covered in this sectional specification are intended to operate with voltages and currents normally encountered in communications systems. These cables are not intended to be used in conjunction with low impedance sources, for example the electrical power supplies of public utility mains.

2 Normative references

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

EN 50288-1:2013, *Multi-element metallic cables used in analogue and digital communication and control - Part 1: Generic specification*

EN 50289 (all parts), *Communication cables — Specifications for test methods*

EN 50290 (all parts), *Communication cables*

3 Terms, definitions, symbols and abbreviations

For the purposes of this document, the terms and definitions, symbols and abbreviations given in Clause 3 of EN 50288-1:2013 and the following apply.

Ex – Exogenous (derived or originating externally)

4 Cable construction**4.1 Conductor**

The conductor shall be solid copper and meet the requirements of 4.1 of EN 50288-1:2013. The conductor shall be plain copper (with or without additional metal coating).

The nominal conductor diameter shall be $\geq 0,50$ mm and $\leq 0,80$ mm.

NOTE Constructions with 'copper clad' conductors do not meet the requirements.

4.2 Insulation

The insulation shall be of a suitable material according to the appropriate part of EN 50290-2.

4.3 Cabling elements

The cable element shall be a pair or quad.

4.4 Identification of cabling elements

Unless otherwise specified, the colour coding for identification is given in IEC 60189-2 or EN 60708, as appropriate. The colours shall meet the requirements of 4.4 of EN 50288-1:2013.

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