



**NSAI**  
Standards

Irish Standard  
I.S. EN 50288-11-2:2015

Multi-element metallic cables used in analogue and digital communication and control - Part 11-2: Sectional specification for un-screened cables, characterized from 1 MHz up to 500 MHz for work area, patch cord and data centre applications

**I.S. EN 50288-11-2:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

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## National Foreword

I.S. EN 50288-11-2:2015 is the adopted Irish version of the European Document EN 50288-11-2:2015, Multi-element metallic cables used in analogue and digital communication and control - Part 11-2: Sectional specification for un-screened cables, characterized from 1 MHz up to 500 MHz for work area, patch cord and data centre applications

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EUROPEAN STANDARD

**EN 50288-11-2**

NORME EUROPÉENNE

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English Version

**Multi-element metallic cables used in analogue and digital communication and control - Part 11-2: Sectional specification for un-screened cables, characterized from 1 MHz up to 500 MHz for work area, patch cord and data centre applications**

Câbles métalliques à éléments multiples utilisés pour les transmissions et les commandes analogiques et numériques - Partie 11-2: Spécification intermédiaire pour les câbles non écrantés, caractérisés de 1 MHz à 500 MHz  
- Câbles horizontaux et câbles verticaux de bâtiment

Mehradrige metallische Daten- und Kontrollkabel für analoge und digitale Kommunikation - Teil 11-2: Rahmenspezifikation für ungeschirmte Kabel von 1 MHz bis 500 MHz für Geräteanschlusskabel, Schaltkabel und Anwendungen für Rechenzentren

This European Standard was approved by CENELEC on 2015-08-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

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



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**

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## **European foreword**

This document (EN 50288-11-2:2015) 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) 2015-08-03
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-08-03

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 Part 11-2 is to be read in conjunction to EN 50288-1.

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

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

EN 50288-11-2:2015

## 1 Scope

This sectional specification covers un-screened cables, characterised from 1 MHz up to 500 MHz, to be used to construct cords for use in cabling specified in the EN 50173 series of standards.

The premises-specific cabling standards of the EN 50173 series reference the D1 requirements of this specification for the cable used within cords of the “reference implementations” of those standards. The alternative D2 requirements of this specification may be used to produce cords for other implementations and applications including the direct connection of equipment in data centres.

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

EN 50289-3-2, *Communication cables – Specifications for test methods – Part 3-2: Mechanical test methods – Tensile strength and elongation for conductor*

EN 50289-3-4, *Communication cables – Specifications for test methods – Part 3-4: Mechanical test methods – Tensile strength, elongation and shrinkage of insulation and sheath*

EN 50289-3-5, *Communication cables – Specifications for test methods – Part 3-5: Mechanical test methods – Crush resistance of the cable*

EN 50289-3-6, *Communication cables – Specifications for test methods – Part 3-6: Mechanical test methods – Impact resistance of the cable*

EN 50289-3-8, *Communication cables – Specifications for test methods – Part 3-8: Mechanical test methods – Abrasion resistance of cable sheath markings*

EN 50289-3-9:2001, *Communication cables – Specifications for test methods – Part 3-9: Mechanical test methods – Bending tests*

EN 50289-3-16, *Communication cables – Specifications for test methods – Part 3-16: Mechanical test methods – Cable tensile performance*

EN 50289-4-6, *Communication cables – Specifications for test methods – Part 4-6: Environmental test methods – Temperature cycling*

EN 50290-2 series, *Communication cables – Part 2: Common design rules and construction*



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