

**Analoog- ja digitaalkommunikatsioonis ja -
juhtimises kasutatavad mitmeelemendilised
metallkaablid. Osa 6-1: Varjestamata, sagedusega
kuni 250 MHz iseloomustatavate kaablite liigitus.
Horisontaalsed ja ehitiste katuseharjakaablid**

Multi-element metallic cables used in analogue and
digital communication and control - Part 6-1: Sectional
specification for unscreened cables characterised up to
250 MHz - Horizontal and building backbone cables

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50288-6-1:2004 sisaldab Euroopa standardi EN 50288-6-1:2003 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 25.05.2004 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 18.12.2003.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 50288-6-1:2004 consists of the English text of the European standard EN 50288-6-1:2003.

This standard is ratified with the order of Estonian Centre for Standardisation dated 25.05.2004 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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Võtmesõnad:

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**Multi-element metallic cables used in analogue
and digital communication and control
Part 6-1: Sectional specification for unscreened cables
characterised up to 250 MHz -
Horizontal and building backbone cables**

Câbles métalliques à éléments multiples
utilisés pour les transmissions
et les commandes analogiques
et numériques
Partie 6-1: Spécification intermédiaire
pour les câbles non blindés
pour applications jusqu'à 250 MHz -
Câbles horizontaux et verticaux
de bâtiment

Mehradrige metallische Daten-
und Kontrollkabel für analoge
und digitale Übertragung
Teil 6-1: Rahmenspezifikation
für ungeschirmte Kabel bis 250 MHz -
Kabel für den Horizontal- und
Steigbereich

This European Standard was approved by CENELEC on 2003-10-01. 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 Central Secretariat 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 Central Secretariat 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 European Standard was prepared by SC 46XC, Multicore, Multipair and Quad Data communication cables, of Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50288-6-1 on 2003-10-01.

The following dates were fixed:

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|--|-------|------------|
| - latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2004-10-01 |
| - latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2006-10-01 |

This Part 6-1 is to be read in conjunction with EN 50288-1.

Contents

	Page
1 Scope.....	4
2 Normative references.....	4
3 Definitions.....	4
4 Cable construction.....	4
4.1 Conductor.....	4
4.2 Insulation.....	4
4.3 Cabling elements.....	4
4.4 Identification of cabling elements.....	5
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 Tests and requirements for completed cables.....	6
5.1 Electrical tests.....	6
5.2 Mechanical tests.....	8
5.3 Environmental tests.....	9
5.4 Fire performance tests.....	9

1 Scope

This sectional specification covers unscreened cables, characterised up to 250 MHz, to be used in horizontal floor and building backbone wiring as defined in EN 50173.

The electrical, mechanical, transmission and environmental performance characteristics of the unscreened cables, related to their reference test methods, are detailed.

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

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the cited publications are listed hereafter. For dated references, subsequent amendments to or revisions of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the cited publication applies, together with any amendments.

EN 50173		Information technology - Generic cabling systems
EN 50288-1		Generic specification for multi-element metallic cables used in analogue and digital communication and control
EN 50289	Series	Communication cables - Specifications for test methods
EN 50290	Series	Communication cables
IEC 60189-2		Low-frequency cables and wires with PVC insulation and PVC sheath - Part 2: Cables in pairs, triples, quads and quintuples for inside installations

3 Definitions

For the purposes of this European Standard the definitions of EN 50288-1 apply.

4 Cable construction

4.1 Conductor

The conductor shall be solid copper and meet the requirements of 4.1 of EN 50288-1.

The conductor shall be plain or metal coated.

The nominal conductor diameter shall be $\geq 0,5$ mm and $\leq 0,8$ mm.

4.2 Insulation

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

4.3 Cabling elements

The cable element shall be a pair or a quad.