

**Analoog- ja digitaalkommunikatsioonis ja -
juhtimises kasutatavad mitmeelemendilised
metallkaablid. Osa 5-1: Varjestatud, sagedusega
kuni 250 MHz iseloomustatavate kaablite liigitus.
Horisontaalsed ja ehitiste katuseharjakaablid**

Multi-element metallic cables used in analogue and
digital communication and control - Part 5-1: Sectional
specification for screened cables characterized up to
250 MHz - Horizontal and building backbone cables

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50288-5-1:2004 sisaldab Euroopa standardi EN 50288-5-1:2003 ingliskeelset teksti.

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

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Standard on kättesaadav Eesti standardiorganisatsioonist.

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Võtmesõnad:

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**Multi-element metallic cables used in analogue
and digital communication and control
Part 5-1: Sectional specification for screened cables
characterized 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 5-1: Spécification intermédiaire
pour les câbles blindés
pour applications jusqu'à 250 MHz -
Câbles horizontaux et câbles verticaux
de bâtiment

Mehradrige metallische Daten-
und Kontrollkabel für analoge
und digitale Übertragung
Teil 5-1: Rahmenspezifikation
für geschirmte 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.

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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 50288-5-1 on 2003-10-01.

The following dates were fixed:

- 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 5-1 is to be read in conjunction with EN 50288-1.

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1 Scope

This sectional specification covers screened 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 screened 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.