Suure bitikiirusega telekommunikatsioonivõrkudes kasutatavad mitmepaarilised lõppkasutajakaablid. Osa 2: Toru- ja maakaablid

End user multi-pair cables used in high bit rate telecommunication networks Part 2: Duct and buried cables

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50406-2:2004 sisaldab Euroopa standardi EN 50406-2:2004 ingliskeelset teksti.	This Estonian standard EVS-EN 50406-2:2004 consists of the English text of the European standard EN 50406-2:2004.
Standard on kinnitatud Eesti Standardikeskuse 22.07.2004 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 22.07.2004 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 30.06.2004.	Date of Availability of the European standard text 30.06.2004.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 33.120.10

Võtmesõnad:

EUROPEAN STANDARD **EN 50406-2**

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English version

End user multi-pair cables used in high bit rate telecommunication networks Part 2: Duct and buried cables

Câbles multi-paires de l'utilisateur final utilisés dans les réseaux de télécommunication à hauts-débits Partie 2: Câbles pour conduites et enterrés

Vielpaarige Kabel für Endanwender für Telekommunikationsnetzwerke mit hoher Bitrate Teil 2: Kabel für das Verlegen in Kabelschächten und in Erdreich

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Ref. No. EN 50406-2:2004 E

Foreword

This European Standard was prepared by the 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 50406-2 on 2004-02-01.

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) 2005-02-01

- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-02-01

Contents

1 Scope

This European Standard defines outdoor multi-pair/quad cables for use in high bit rate telecommunication networks with their relative definitions and requirements.

It covers radially water blocked cables, with an overall screen, with performances up to 60 MHz, to be used in outdoor networks intended to connect the broadband outside plant to the individual customer premises with a maximum recommended length of connection of 1 km.

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

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 50289	series	Communication cables - Specifications for test methods *(Basic reference standards)*
EN 50290	series	Communication cables *(Basic reference standards)*
EN 60811-1-1	1993	Insulating and sheathing materials of electric and optical cables – Common test methods – Part 1-1: General application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties (IEC 60811-1-1)
EN 60811-1-2	1995	Insulating and sheathing materials of electric cables - Common test methods – Part 1-2: General application - Thermal ageing methods (IEC 60811-1-2:1985 + corrigendum May 1986 + A1:1989)
HD 402 S2	1984	Standard colours for insulation for low-frequency cables and wires (IEC 60304:1982)
IEC 60028	1925	International standard of resistance for copper

3 Terminology and abbreviations

3.1 Terminology

For the purpose of this European Standard, the definitions of EN 50290-1-2 apply.

3.2 Abbreviations

ADSL	Asymmetric Digital Subscriber Lines
ATM	Asynchronous Transfer Mode
DSL	Digital Subscriber Line
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
FSAN	Full Service Access Network
HDSL	High-bit-rate Digital Subscriber Lines