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Nederlandse norm

# NEN-EN 50406-1 (en)

End user multi-pair cables used in high bit rate telecommunication networks - Part 1: Aerial cables

Preview

ICS 33 120 10

juli 2004

Als Nederlandse norm is aanvaard:  
- EN 50406-1:2004, IDT

Nederlands Elektrotechnisch Comité (NEC)  
Normcommissie 365 046 "Kabeldraad en golflijpen voor telecommunicatie (NEC 46)"

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Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

<u>vermelde norm</u>	<u>Nederlandse norm</u>	<u>titel</u>
EN 50289:series	NEN-EN 50289:reeks	Communicatiekabels (en)
EN 50290:series	NEN-EN 50290:reeks	Communicatiekabels (en)
EN 60811-1-1:1983	-	-
EN 60811-1-2:1995	NEN 10811-1-2:1996	Elektrische leidingen - Isolatie- en mantelmaterialen - Gemeenschappelijke beproevingsmethoden - Deel 1: Algemene toepassing - Sectie 2: Thermische veroudering (en,fr)
HD 402 S2:1984	NEN 3093:1989	Laagfrequentkabels, -draden en -snoeren - Kleuren van isolatie en mantels (nl)
IEC 60208:1925	-	-

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EUROPEAN STANDARD

**FINAL DRAFT**  
**prEN 50406-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2003

ICS

English version

**End user multi-pair cables used in high bit rate telecommunication networks**  
**Part 1: Aerial cables**

(to be completed)

(to be completed)

This draft European Standard is submitted to CENELEC members for Unique Acceptance Procedure  
Deadline for CENELEC: 2003-09-12

It has been drawn up by Technical Committee CENELEC TC 46X.

If this draft becomes a European Standard, 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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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
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Project 15344

Ref No prEN 50406-1.2003 E

## Foreword

This draft European Standard was prepared by the Technical Committee CENELEC TC 46X, Communication cables. It is submitted to the Unique Acceptance Procedure.

The following dates are proposed:

- latest date by which the existence of the EN has to be announced at national level (doa) dor + 6 months
- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

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## 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.

### 1.1 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 10002-1		Tensile testing of metallic materials Part 1: method of test at ambient temperature
EN 50290	series	Communication cables <i>(Basic reference standards)</i>
EN 50289	series	Communication cables - Specifications for test methods <i>(Basic reference standards)</i>
EN 60068/ HD 323	series	Environmental testing (IEC 60068 series)
EN 60811-1-1		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
IEC 60050		International Electrotechnical Vocabulary (IEV)
IEC 60344	1980	Guide to the calculation of resistance of plain and coated copper conductors of low-frequency cables and wires

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