

**Kommunikatsioonikaablid. Osa 2-23:  
Projekteerimise üldjuhised ja konstruktsioon.  
Polüeteenisolatsioon**

Communication cables - Part 2-23: Common design rules and construction; PE insulation

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50290-2-23:2002 sisaldab Euroopa standardi EN 50290-2-23:2001 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 15.10.2002 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 05.10.2001.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50290-2-23:2002 consists of the English text of the European standard EN 50290-2-23:2001.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 15.10.2002 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 05.10.2001.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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ICS 29.035.20, 33.120.10

**Võtmesõnad:** control equipment, design, developments, insulating compounds, insulations, make-ups, materials, optical, optical waveguides, pe, polyethylene, production, rules, sheathings, specification (approval), specifications, symmetrical, telecommunication

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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
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EUROPEAN STANDARD

**EN 50290-2-23**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2001

ICS 29.035.20; 33.120.10

Supersedes HD 624.3 S1:1994 + A2:1994

English version

**Communication cables**  
**Part 2-23: Common design rules and construction -**  
**PE insulation**

Câbles de communication  
Partie 2-23: Règles de conception  
communes et construction -  
Polyéthylène pour enveloppes isolantes

Kommunikationskabel  
Teil 2-23: Gemeinsame Regeln für  
Entwicklung und Konstruktion -  
PE-Isoliermischungen

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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.

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

### Foreword

This European Standard was prepared by a joint working group of the Technical Committees CENELEC TC 46X, Communication cables, and CENELEC TC 86A, Optical fibres and optical fibre cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50290-2-23 on 2001-05-01.

This European Standard supersedes HD 624.3 S1:1994 + A2:1994.

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) 2002-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2004-04-01

This European Standard has been prepared under the European Mandate M/212 given to CENELEC by the European Commission and the European Free Trade Association.

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## 1 Scope

This Part 2-23 of EN 50290 gives specific requirements for PE insulated compounds used for communication cables.

It is to be read in conjunction with Part 2-20 of EN 50290.

## 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 publications are listed hereafter. For dated references, subsequent amendments to or revisions of any 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 publication referred to applies (including amendments).

- EN 60811-1-1:1995 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 60811-1-1:1993)
- 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 + corr. May 1986 + A1:1989)
- EN 60811-1-3:1995 Insulating and sheathing materials of electric and optical cables - Common test methods -- Part 1-3: General application - Methods for determining the density - Water absorption tests - Shrinkage test (IEC 60811-1-3:1993)
- EN 60811-4-1:1995 Insulating and sheathing materials of electric cables - Common test methods - - Part 4: Methods specific to polyethylene and polypropylene compounds -- Section 1: Resistance to environmental stress cracking - Wrapping test after thermal ageing in air - Measurement of the melt flow index - Carbon black and/or mineral content measurement in PE (IEC 60811-4-1:1985 + corr. May 1986 + A2:1993)
- EN 60811-4-2:1999 Insulating and sheathing materials of electric and optical fibre cables - Common test methods -- Part 4: Methods specific to polyethylene and polypropylene compounds -- Section 2: Tensile strength and elongation at break after pre-conditioning - Wrapping test after thermal ageing in air - Measurement of mass increase - Long-term stability test - Test method for copper-catalysed oxidative degradation (IEC 60811-4-2:1990, modified)