

Svenska Elektriska Kommissionen, SEK

Fastställt	Utgåva	Sida	Ingår i
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## Tele- och datakablar – Del 2-24: Konstruktion och utförande – PE-mantelmassa

*Communication cables –  
Part 2-24: Common design rules and construction –  
PE sheathing*

Som svensk standard gäller europastandarden EN 50290-2-24:2002. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50290-2-24:2002.

### Nationellt förord

Standarden skall användas tillsammans med SS-EN 50290-2-20.

Tidigare utgiven svensk standard SS 424 16 24-4, utgåva 1, 1997, gäller ej fr o m 2004-08-01.

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ICS 29.035.20; 33.120.10

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Denna standard är fastställd av Svenska Elektriska Kommissionen, SEK, som också kan lämna upplysningar om **sakinnehållet** i standarden.  
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EUROPEAN STANDARD

**EN 50290-2-24**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2002

ICS 29.035.20; 33.120.10

Supersedes HD 624.4 S1:1996

English version

**Communication cables**  
**Part 2-24: Common design rules and construction –**  
**PE sheathing**

Câbles de communication  
Partie 2-24: Règles de conception  
communes et construction –  
Polyéthylène pour gainage

Kommunikationskabel  
Teil 2-24: Gemeinsame Regeln  
für Entwicklung und Konstruktion –  
PE-Mantelmischungen

This European Standard was approved by CENELEC on 2001-11-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**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 50290-2-24 on 2001-11-01.

This European Standard supersedes HD 624.4 S1:1996.

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) 2002-08-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2004-08-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annexes A, B and C are normative.

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 2-24 of EN 50290 gives specific requirements for PE sheathing compounds used in 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 60811-1-4:1995	Insulating and sheathing materials of electric and optical cables - Common test methods -- Part 1-4: General application - Tests at low temperature (IEC 60811-1-4:1985 + corr. May 1986 + A1:1993)
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)
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, mod.)