



SLOVENSKI STANDARD SIST EN 50290-2-28:2002

01-september-2002

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SIST HD 624.8 S1:1996

SIST HD 624.8 S1:1996/A1:1997

Communication cables - Part 2-28: Common design rules and construction - Filing compound for filled cables (Note: Applies only in conjunction with EN 50290-2-20)

Communication cables -- Part 2-28: Common design rules and construction - Filling compounds for filled cables

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Kommunikationskabel -- Teil 2-28: Gemeinsame Regeln für Entwicklung und Konstruktion - Petrolat-Füllmasse für gefüllte Kabel

SIST EN 50290-2-28:2002

Câbles de communication -- Partie 2-28: Règles de conception communes et construction - Matières de remplissage pour câbles remplis

Ta slovenski standard je istoveten z: EN 50290-2-28:2002

ICS:

29.035.20	Ú æ cã } ã Á ~ { ^ } ã [æã \ ã	Plastics and rubber insulating materials
33.120.10	Koaksialni kabli. Valovodi	Coaxial cables. Waveguides

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EUROPEAN STANDARD

EN 50290-2-28

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2002

ICS 33.120.10

Supersedes HD 624.8 S1:1995 + A1:1996

English version

Communication cables
Part 2-28: Common design rules and construction –
Filling compounds for filled cables

Câbles de communication
Partie 2-28: Règles de conception
communes et construction –
Matières de remplissage
pour câbles remplis

Kommunikationskabel
Teil 2-28: Gemeinsame Regeln
für Entwicklung und Konstruktion -
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SIST EN 50290-2-28:2002

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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 50290-2-28 on 2001-11-01.

This European Standard supersedes HD 624.8 S1:1995 + A1:1996.

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

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 2-28 of EN 50290 gives specific requirements for filling compounds for filled cables 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 60811-5-1:1999 Insulating and sheathing materials of electric and optical fibre cables - Common test methods -- Part 5: Methods specific to filling compounds -- Section 1: Drop point - Separation of oil - Lower temperature brittleness – Total acid number - Absence of corrosive components - Permittivity at 23°C - D.C. resistivity at 23 °C and 100 °C (IEC 60811-5-1:1990, mod.)

3 Requirements

In case of specific applications, additional performances could be needed. Relevant test methods and requirements shall be included in the detail specifications of the cables.

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Table 1 – Filling compounds for filled cables
(Interstitial filling compounds not intended to be used in contact with optical fibre)

Characteristics		Test method	Unit	Grades	
				Type 1	Type 2
1	Drop point	EN 60811-5-1 clause 4	° C	≥ 50 ≤ 70	> 70
2	Separation of oil - temperature - duration Result to be obtained, max.	EN 60811-5-1 clause 5	° C h mm	50 ± 2 24 5	50 ± 2 24 5
3	Low temperature brittleness ¹⁾ - temperature - duration Result to be obtained number of cracks, max.	EN 60811-5-1 clause 6	°C h	- 10 ± 1 2 F 20	- 10 ± 1 2 F 20
4	Total acid number ²⁾ Result to be obtained, max.	EN 60811-5-1 clause 7	mgKOH/g	0,5	0,5
5	Absence of corrosive components	EN 60811-5-1 clause 8		No corrosion	No corrosion
6	Permittivity ³⁾ - frequency Result to be obtained, max.	EN 60811-5-1 clause 9	kHz	1 2,3	1 2,3
7	DC Resistivity ³⁾ - test voltage Result to be obtained, min. at 100° C at 23° C	EN 60811-5-1 clause 10	V Ω.m Ω.m	100/500 10 ⁸ 10 ¹¹	100/500 10 ⁸ 10 ¹¹
<p>1) The low temperature brittleness test is not required for type 2 compounds having a drop point > 80° C.</p> <p>2) For filling compounds with improved thixotropic, swelling or electrical properties, higher values are permissible.</p> <p>3) These requirements are only applicable to interstitial filling compounds used in cables including copper elements.</p>					