



SLOVENSKI STANDARD SIST EN 50289-3-17:2002

01-september-2002

Communication cables - Specifications for test methods - Part 3-17: Mechanical test methods - Adhesion of dielectric and sheath (Note: Applies in conjunction with EN 50289-3-1)

Communication cables - Specifications for test methods -- Part 3-17: Mechanical test methods - Adhesion of dielectric and sheath

Kommunikationskabel - Spezifikationen für Prüfverfahren -- Teil 3-17: Mechanische Prüfverfahren - Haftung von Dielektrikum und Mantel

Câbles de communication - Spécifications des méthodes d'essai -- Partie 3-17: Méthodes d'essais mécaniques - Adhérence du diélectrique et de la gaine

Ta slovenski standard je istoveten z: EN 50289-3-17:2002

ICS:

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

SIST EN 50289-3-17:2002

en

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EUROPEAN STANDARD

EN 50289-3-17

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2002

ICS 33.120.10

English version

**Communication cables –
Specifications for test methods
Part 3-17: Mechanical test methods –
Adhesion of dielectric and sheath**

Câbles de communication –
Spécifications des méthodes d'essai
Partie 3-17: Méthodes d'essais
mécaniques –
Adhérence du diélectrique
et de la gaine

Kommunikationskabel –
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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 SC 46XC, Multicore, Multipair and Quad Data communication cables, of 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 50289-3-17 on 2001-11-01.

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) 2002-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-11-01

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 3-17 of EN 50289 details the method of test to determine the adhesion of the dielectric and of the sheath of coaxial cables used in analogue and digital communication systems.

It is to be read in conjunction with Part 3-1 of EN 50289, which contains essential provisions for its application.

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 50289-3-1 2001 Communication cables - Specifications for tests methods – Part 3-1: Mechanical test methods – General requirements

EN 50290-1-2¹⁾ - Communication cables - Part 1-2: Definitions

3 Definitions

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

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4 Method

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4.1 Preparation of test specimens

Two test specimens separated by at least 300 mm shall be cut from the finished cable, unless otherwise specified in the relevant cable specification. Each test specimen shall be prepared as shown in Figure 1. Stripping shall be done carefully so as not to effect the adhesion of the test sample.

The inner conductor shall be sufficiently long to be gripped by the jaw of a tensile testing device.

4.2 Procedure

The test piece shall be loaded into the tensile testing machine and test fixture as shown in Figure 2. The diameter of the hole in the test plate shall be larger than the diameter of the centre conductor or the dielectric by $0,10 \pm 0,03$ mm.

The inner conductor shall be pulled steadily at a rate not exceeding 100 mm/min until the dielectric or the outer conductor and sheath is/are completely removed. Sudden pulls and jerking shall be avoided. The physical handling of the test specimens shall be kept to a minimum to avoid specimen deterioration.

4.3 Expression of results

Dielectric adhesion shall be defined as the highest tensile reading obtained when the conductor to dielectric bond is broken.

¹⁾ At draft stage.

5 Requirements

The value of the adhesion and the lengths ℓ of the dielectric shall be in accordance with the values stated in the relevant cable specification.

The conductor surface must be exempt from any remaining insulating material.

6 Details to be specified

The detail specification shall include:

- the temperature;
- the value of the adhesion;
- the lengths ℓ of the dielectric.

7 Test report

The test report shall include:

- temperature;
- the lengths ℓ of the dielectric,
- the value of the adhesion,
- pass/fail criteria.

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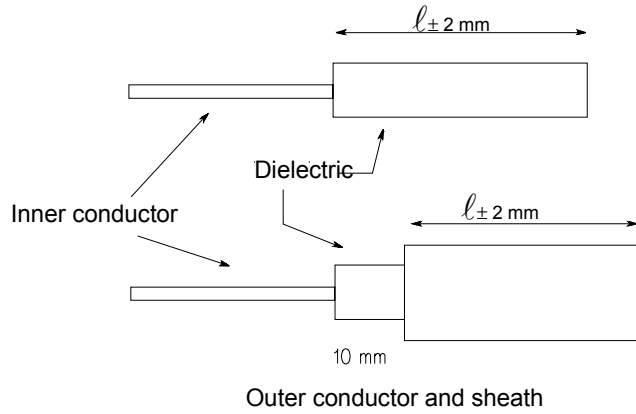


Figure 1 – Dimension of stripping

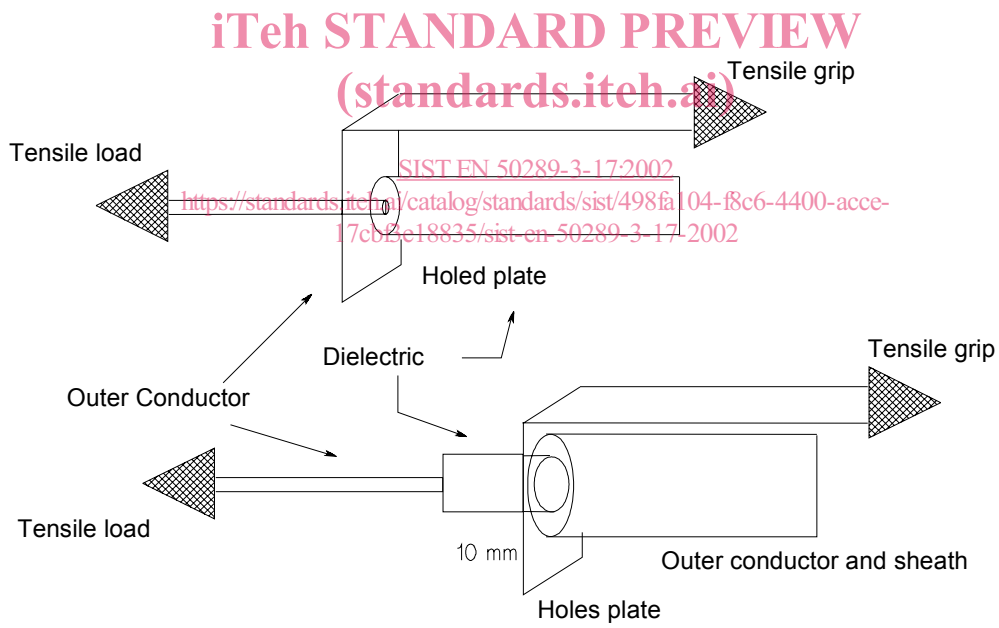


Figure 2 – Test equipment