This is a free page sample. Access the full version online.

National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50117-5:1999

ICS 33.060.40

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

COAXIAL CABLES USED IN CABLED DISTRIBUTION NETWORKS. PART 5: SECTIONAL SPECIFICATION FOR INDOOR DROP CABLES FOR USE IN NETWORKS OPERATING AT FREQUENCIES BETWEEN 5 MHZ AND 2150 MHZ

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on: February 12, 1999

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 1999

Price Code E

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50117-5

April 1997

ICS 33.120.10

Descriptors: Indoor drop coaxial cables, cabled networks up to 2150 MHz

English version

Coaxial cables used in cabled distribution networks
Part 5: Sectional specification for indoor drop cables for use in networks operating at frequencies between 5 MHz and 2150 MHz

Câbles coaxiaux de raccordement pour réseaux câblés
Partie 5: Spécification intermédiaire pour câbles à usage intérieur de réseaux fonctionnant à une fréquence comprise entre 5 MHz et 2150 MHz

Koaxialkabel für Kabelverteilanlagen
Teil 5: Rahmenspezifikation für Hausinstallationskabel für Anlagen für Frequenzen von 5 MHz bis 2150 MHz

This European Standard was approved by CENELEC on 1996-12-09. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, 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

© 1997 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Ref. No. EN 50117-5:1997 E

This is a free page sample. Access the full version online.

Foreword

This European Standard was prepared by SC 46XA, Coaxial cables, of 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 50117-5 on 1996-12-09.

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) 1997-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-12-01

This is a free page sample. Access the full version online.

SECTIONAL SPECIFICATION FOR

INDOOR DROP CABLES FOR USE IN

NETWORKS OPERATING AT FREQUENCIES BETWEEN 5 MHZ AND 2150 MHZ

1. Scope

This Sectional Specification is intended to be used in conjunction with Generic Specification EN 50117 for Coaxial Cables for use in Cabled Distribution Systems.

This Sectional Specification applies to drop cables for indoor applications in networks (e.g. SMATV) whose frequency of operation is within the range 5 MHz - 2150 MHz.

The purpose of the standard is to specify values and preferential characteristics of the cables, and to identify the applicable tests from the Generic Specification. Reference is made to suitable schemes for Quality Assessment.

The numbering of the clauses is the same as in the Generic Specification. All the clauses from the generic are applicable unless otherwise stated in this sectional specification. Any variations from the generic specification are also detailed in this specification.

2. Reference Standards

EN 50117 Generic Specification for Coaxial Cables used in Cabled Distribution Networks.

3. Definitions

Terminology, units of measure, and symbols, are the same as in the Generic Specification.

4. Materials and Cable Construction

4.3 Dielectric

Unless otherwise specified, nominal cable diameter over the dielectric should preferably be selected from the following table;

2,9 mm 3,7 mm 4,8 mm 7,2 mm

4.4 Outer Conductor or Screen

The braid angle according to 3.2.2.1 shall be between 15° and 45°. The coverage factor according to 3.2.2.4 shall be greater than or equal to 65%, or, when the cable is provided with a metal foil, greater than or equal to 25%. These values are also valid for cables with two bidirectional layers of helically wound wires.

This is a free page sample. Access the full version online.

4.5 Sheath

The sheath of cables covered by this Sectional Specification shall be in PVC, or flame retardant materials, which may include halogen free materials.

6. Identification Marking and Labelling

6.2 Sheath Marking

Cables shall be marked on the outer sheath with

(i) Cable type
(ii) Supplier identification

at least once per metre.

Additional marking is permissible provided (i) and (ii) above are clearly identifiable. Sheath marking shall not be easily removable (preferably via the use of embossing or ink).

9. Materials and Cable Construction Tests

9.4 Ovality

Not applicable

9.6 Tensile Strength and Elongation after Break for Metals

Applicable only for copper inner conductors.

9.7 Tensile Strength and Elongation at Break for Metals

Applicable only for copper clad steel inner conductors.

9.8 Torsion Test for Copper Clad Metals

Applicable only for copper clad steel inner conductors.

9.9 Tensile Strength and Elongation for Plastics

Applicable on the outer sheath of the cable.

Requirements

Plastic materials used in the construction of these cables shall meet the requirements of HD624 as follows;

PVC sheathing compounds	HD624.2
Flame retardant compounds	HD624.6
Halogen free flame retardant compounds	HD624.7

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation