BS EN 50117-4-2:2015



BSI Standards Publication

Coaxial cables

Part 4-2: Sectional specification for CATV cables up to 6 GHz used in cabled distribution networks

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National foreword

This British Standard is the UK implementation of EN 50117-4-2:2015.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Koaxialkabel - Teil 4-2: Rahmenspezifikation für CATV-Kabel bis zu 6 GHz für Kabelverteilanlagen

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European foreword

This document (EN 50117-4-2:2015) has been prepared by CLC/SC 46XA "Coaxial cables" of CLC/TC 46X "Communication cables".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2016-06-22
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This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

1 Scope

This sectional specification relates to EN 50117-1 and should be read in conjunction with this generic specification. This specification applies to indoor drop cables for use in cabled distribution systems operating at temperature between -40 °C and +70 °C[1)] and at frequencies between 5 MHz and 6 000 MHz and complying with the requirements of EN 50083. These cables are suitable to implement the network type Case D as depicted in Figure 1 and subclause 6.6 of EN 60728-1-1:2014.

The purpose of this European Standard is to specify the applicable test methods and requirements for the electrical, mechanical, and environmental and fire performance of the cables.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50117-1:2002, *Coaxial cables – Part 1: Generic specification*

EN 50289-1-6, *Communication cables – Specifications for test methods – Part 1-6: Electrical test methods – Electromagnetic performance*

EN 50289-3-9:2001, *Communication cables – Specifications for test methods – Part 3-9: Mechanical test methods – Bending tests*

EN 50290-1-2:2004, *Communication cables – Part 1-2: Definitions*

EN 50290-2-22, *Communication cables – Part 2-22: Common design rules and construction – PVC sheathing compounds*

EN 50290-2-27, *Communication cables – Part 2-27: Common design rules and construction – Halogen free flame retardant thermoplastic sheathing compounds*

prEN 50290-2-37, *Communication cables – Part 2-37: Common design rules and construction – Polyethylene insulation for coaxial cables*

prEN 50290-2-38, *Communication cables – Part 2-38: Common design rules and construction – Polyethylene insulation for coaxial cables*

EN 62153-1-1, *Metallic telecommunication cable test methods – Part 1-1: Electrical – Measurement of the pulse/step return loss in the frequency domain using the Inverse Discrete Fourier Transformation (IDFT) (IEC 62153-1-1)*

IEC 61196-1-115, *Coaxial communication cables – Part 1-115: Electrical test methods – Test for pulse return loss (regularity of impedance)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50290-1-2:2004 and EN 50117-1:2002 apply.

1) This value is valid for applications without ampacity only.