

INTERNATIONAL STANDARD

**Multicore and symmetrical pair/quad cables for digital communications
Part 2-1: Horizontal floor wiring – Blank detail specification**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES
FOR DIGITAL COMMUNICATIONS****Part 2-1: Horizontal floor wiring –
Blank detail specification**

FOREWORD

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International Standard IEC 61156-2-1 has been prepared by subcommittee 46C: Wires and symmetric cables, of IEC technical committee 46: Cables, wires, waveguides, r.f. connectors, r.f. and microwave passive components and accessories.

This third edition cancels and replaces the second edition published in 2003. This edition constitutes a technical revision and takes into account the technical changes made in the IEC 61156-2, Edition 3 (2010).

This sectional specification relates to IEC 61156-2:2010. The cables are specifically intended for horizontal floor wiring as defined in ISO/IEC 11801:1995.

The text of this technical report is based on the following documents:

CDV	Report on voting
46C/900/CDV	46C/913/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61156 series, under the general title: *Multicore and symmetrical pair/quad cables for digital communications*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR DIGITAL COMMUNICATIONS

Part 2-1: Horizontal floor wiring – Blank detail specification

1 Scope

This blank detail specification relates to multicore and symmetrical pair/quad cables for digital communications in horizontal floor wiring.

This blank detail specification determines the layout and style for detail specifications describing multicore and symmetrical pair/quad cables for digital communication in horizontal floor wiring. Detail specifications based on the blank detail specification may be prepared by a national standards organization, a manufacturer or a user.

2 Normative references

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

IEC 61156-1:2002¹⁾, *Multicore and symmetrical pair/quad cables for digital communications – Part 1: Generic specification* [IEC 61156-2-1:2010](https://standards.iteh.ai/catalog/standards/sist/a5363e3e-e629-42e4-bd4d-5525367901c/iec-61156-2-1-2010)

IEC 61156-2:2010, *Multicore and symmetrical pair/quad cables for digital communications – Part 2: Symmetrical pair/quad cables with transmission characteristics up to 100 MHz – Horizontal floor wiring – Sectional specification*

3 Guidance for preparation of detail specifications

It is necessary to keep the transmission characteristics indicated in the relevant sectional specification for the category number (3 or 5) and the characteristic impedance.

NOTE When a characteristic does not apply, then NA (for Not Applicable) may be entered in the appropriate space.

When a characteristic applies but a specific value is not considered necessary, then NS (for Not Specified) should be entered in the appropriate space.

¹⁾ A more recent version of this standard exists (2007), but as not all of the tests cited herein are addressed by the newer edition, it has been decided that the 2002 edition is to be used.

The numbers shown in brackets in this and the following pages correspond to the following items of required information which shall be entered in the spaces provided.

- [1] Name and address of the organization that has prepared the document.
- [2] IEC document number, issue number and date of issue.
- [3] Address of the organization from which the document is available.
- [4] Related documents.
- [5] Any other reference to the cable, national reference, trade name, etc.
- [6] A complete description of the cable:
 - a) type and number of elements;
 - b) nominal impedance;
 - c) screening;
 - d) application;
 - e) category;
 - f) other distinguishing performance characteristics.

Example: Detail specification for 4-pairs cable without common screen for digital communications in horizontal floor wiring category 5.
- [7] Details of the cable materials and construction.
- [8] Special requirements for bending radius or operation temperatures.
- [9] List of cable characteristics. They are separated into electrical, transmission, mechanical and environmental characteristics.
- [10] Appropriate subclause references in the sectional specification IEC 61156-2.
- [11] Requirements applicable for this cable. The values entered shall at a minimum meet the requirements of sectional specification IEC 61156-2.
- [12] Relevant remarks.

4 Blank detail specification for multicore and symmetrical pair/quad cables for digital communication in horizontal floor wiring

[1] Prepared by:		[2] Document: Issue: Date:	
[3] Available from:	[4] Generic specification: Sectional specification: Blank detail specification:	IEC 61156-1:2002 IEC 61156-2 IEC 61156-2-1	
[5] Additional references:			
[6] Cable description:			
[7] Cable materials and construction	IEC 61156-2 subclause	Characteristic	comment
	2.2.2	Cable construction	
	2.2.3	Conductor description	
	2.2.4	Insulation description: Nominal thickness Maximum diameter	
	2.2.5	Colour code of insulation	
	2.2.6	Number and type of elements	
	2.2.7	Screening of the element	
	2.2.8	Cable make-up Protective wrapping(s) of the cable core:	
	2.2.9	Screen of the cable core: Tape material Minimum overlap Drain wire Braid wire Braid material Filling factor	