

# INTERNATIONAL STANDARD

## AMENDMENT 1

**Multicore and symmetrical pair/quad cables for digital communications –  
Part 5: Symmetrical pair/quad cables with transmission characteristics up to  
1 000 MHz – Horizontal floor wiring – Sectional specification**

<https://standards.iteh.ai/catalog/standards/sist/61156-5-2009/amd1-2012>

<https://standards.iteh.ai/catalog/standards/sist/61156-5-2009/amd1-2012>





## THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2012 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

### About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

### About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

#### Useful links:

IEC publications search - [www.iec.ch/searchpub](http://www.iec.ch/searchpub)

The advanced search enables you to find IEC publications by a variety of criteria (reference number, text, technical committee,...).

It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Stay up to date on all new IEC publications. Just Published details all new publications released. Available on-line and also once a month by email.

Electropedia - [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary of electronic and electrical terms containing more than 30 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary (IEV) on-line.

Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [csc@iec.ch](mailto:csc@iec.ch).

<https://standards.iec.ch/catalogue/standards/sist/61136-5-2009/amd1-2012>

61136-5-2009-amd1-2012

# INTERNATIONAL STANDARD

## AMENDMENT 1

**Multicore and symmetrical pair/quad cables for digital communications –  
Part 5: Symmetrical pair/quad cables with transmission characteristics up to  
1 000 MHz – Horizontal floor wiring – Sectional specification**

<https://standards.iteh.org/standards/sist/61156-5-2009/amd1-2012>  
<https://standards.iteh.org/standards/sist/61156-5-2009/amd1-2012>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

**C**

ICS 33.120.20

ISBN 978-2-83220-549-5

**Warning! Make sure that you obtained this publication from an authorized distributor.**

## FOREWORD

This amendment 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.

The text of this amendment is based on the following documents:

CDV	Report on voting
46C/954/CDV	46C/967/RVC

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

The committee has decided that the contents of this amendment and the base 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.

<https://standards.iteh.ai/catalog/standards/sist/61156-5-2009-amd1-2012>  
<https://standards.iteh.ai/catalog/standards/sist/61156-5-2009-amd1-2012>

### 6.2.2.2 Resistance unbalance between pairs

*Delete this subclause.*

### 6.2.7 Transfer impedance

*Add the following new note after Table 2.*

NOTE The screen longitudinal d.c. resistance of 30 mΩ/m or less is an indicator for fulfilling transfer impedance requirement of Grade 2. A measurement of d.c. resistance cannot replace a transfer impedance measurement.

### 6.2.8 Coupling attenuation

*Replace the existing text of this subclause, including Table 3, by the following:*

Four types of performance are recognized for coupling attenuation. When measured using the absorbing clamp method (IEC 62153-4-5) or the triaxial method (IEC 62153-4-9), the coupling attenuation in the frequency range from  $f = 30$  MHz to 1 000 MHz shall meet the requirements indicated in Table 3. For screened cables, Type II is the minimum coupling attenuation requirement.

**Table 3 – Coupling attenuation**

Coupling attenuation type	Frequency range MHz	Coupling attenuation dB
Type I	30 to 100	> 85
Type I	100 to 1 000	$> 85 - 20 \times \log_{10} (f/100)$
Type Ib	30 to 100	> 70
Type Ib	100 to 1 000	$> 70 - 20 \times \log_{10} (f/100)$
Type II	30 to 100	> 55
Type II	100 to 1 000	$> 55 - 20 \times \log_{10} (f/100)$
Type III	30 to 100	> 40
Type III	100 to 1 000	$> 40 - 20 \times \log_{10} (f/100)$

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

IEC 61156-5:2009/AMD1:2012

<https://standards.iteh.ai/catalog/standards/sist/02b047-6503-44c1-885d-72ae91f0f880/iec-61156-5-2009-amd1-2012>

Withdrawing

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

IEC 61156-5:2009/AMD1:2012

<https://standards.iteh.ai/catalog/standards/sist/02b047-6503-44c1-885d-72ae91f0f880/iec-61156-5-2009-amd1-2012>

Withdrawing

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

IEC 61156-5:2009/AMD1:2012

<https://standards.iteh.ai/catalog/standards/sist/02b047-6503-44c1-885d-72ae91f0f880/iec-61156-5-2009-amd1-2012>