

INTERNATIONAL STANDARD

IEC
62255-4-1

First edition
2005-06

**Multicore and symmetrical pair/quad cables
for broadband digital communications
(high bit rate digital access telecommunication
networks) – Outside plant cables –**

**Part 4-1:
Aerial drop cables – Blank detail specification**

iteh Standards
(<https://standards.iteh.ai>)
Document Preview

[IEC 62255-4-1:2005](https://standards.iteh.ai/catalog/standards/iec/dc4a1d7d-3508-4f41-9ed7-518ca6eb5dfb/iec-62255-4-1-2005)

<https://standards.iteh.ai/catalog/standards/iec/dc4a1d7d-3508-4f41-9ed7-518ca6eb5dfb/iec-62255-4-1-2005>



Reference number
IEC 62255-4-1:2005(E)

Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

Further information on IEC publications

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology. Information relating to this publication, including its validity, is available in the IEC Catalogue of publications (see below) in addition to new editions, amendments and corrigenda. Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is also available from the following:

- **IEC Web Site** (www.iec.ch)

- **Catalogue of IEC publications**

The on-line catalogue on the IEC web site (www.iec.ch/searchpub) enables you to search by a variety of criteria including text searches, technical committees and date of publication. On-line information is also available on recently issued publications, withdrawn and replaced publications, as well as corrigenda.

- **IEC Just Published**

This summary of recently issued publications (www.iec.ch/online_news/justpub) is also available by email. Please contact the Customer Service Centre (see below) for further information.

- **Customer Service Centre**

If you have any questions regarding this publication or need further assistance, please contact the Customer Service Centre: _____

Email: custserv@iec.ch

Tel: +41 22 919 02 11

Fax: +41 22 919 03 00

INTERNATIONAL STANDARD

IEC 62255-4-1

First edition
2005-06

**Multicore and symmetrical pair/quad cables
for broadband digital communications
(high bit rate digital access telecommunication
networks) – Outside plant cables –**

**Part 4-1:
Aerial drop cables – Blank detail specification**

iteh Standards
(<https://standards.iteh.ai>)
Document Preview

[IEC 62255-4-1:2005](https://standards.iteh.ai/catalog/standards/iec/dc4a1d7d-3508-4f41-9ed7-518ca6eb5dfb/iec-62255-4-1-2005)

<https://standards.iteh.ai/catalog/standards/iec/dc4a1d7d-3508-4f41-9ed7-518ca6eb5dfb/iec-62255-4-1-2005>

© IEC 2005 — Copyright - all rights reserved

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 the publisher.

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES
FOR BROADBAND DIGITAL COMMUNICATIONS
(HIGH BIT RATE DIGITAL ACCESS TELECOMMUNICATION
NETWORKS) – OUTSIDE PLANT CABLES –**

Part 4-1: Aerial drop cables – Blank detail specification

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62255-4-1 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.

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

FDIS	Report on voting
46C/719/FDIS	46C/734/RVD

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

This standard is to be read in conjunction with IEC 62255-1 and IEC 62255-4.

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

IEC 62255 consists of the following parts, under the general title *Multicore and symmetrical pair/quad cables for broadband digital communications (high bit rate digital access telecommunications networks) – Outside plant cables*:

- Part 1: Generic specification
- Part 2: Unfilled cables – Sectional specification
- Part 2-1: Unfilled cables – Blank detail specification
- Part 3: Filled cables – Sectional specification
- Part 3-1: Filled cables – Blank detail specification
- Part 4: Aerial drop cables – Sectional specification
- Part 4-1: Aerial drop cables – Blank detail specification
- Part 5: Filled drop cables – Sectional specification
- Part 5-1: Filled drop cables – Blank detail specification

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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/>

<https://standards.iteh.ai/catalog/standards/iec/dc4a1d7d-3508-4f41-9ed7-518ca6eb5dfb/iec-62255-4-1-2005>

MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR BROADBAND DIGITAL COMMUNICATIONS (HIGH BIT RATE DIGITAL ACCESS TELECOMMUNICATION NETWORKS) – OUTSIDE PLANT CABLES –

Part 4-1: Aerial drop cables – Blank detail specification

1 Scope

The blank detail specification determines the layout and style for detail specifications describing Multicore and symmetrical pair/quad aerial drop cables for broadband digital communications. Detail specifications, based on the blank detail specification, may be prepared by a national 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 62255-1, *Multicore and symmetrical pair/quad cables for broadband digital communications (high bit rate digital access telecommunication networks) – Outside plant cables – Part 1: Generic specification*
(<https://standards.iteh.ai/>)

IEC 62255-4, *Multicore and symmetrical pair/quad cables for broadband digital communications (high bit rate digital access telecommunication networks) – Outside plant cables – Part 4: Aerial drop cables – Sectional specification*

3 Guidance for preparation of detail specifications

The detail specification shall be written in accordance with the layout of the blank detail specification which forms part of this standard.

NOTE 1 When a characteristic does not apply, then NA (for Not Applicable) should be entered in the appropriate space.

NOTE 2 When a characteristic applies but a specific value is not considered necessary, then NS (for Not Specified) should be entered in the appropriate space. When NS is used, the appropriate requirement in the sectional specification should apply.

The numbers shown in brackets in this and the following pages correspond to the following items of required information, which should 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 including any distinguishing performance characteristics.
- [7] Details of the cable material and construction.
- [8] Special requirements for bending radius or operating 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 62255-4.