

INTERNATIONAL STANDARD



**Multicore and symmetrical pair/quad cables for digital communications –
Part 8: Symmetrical pair/quad cables with transmission characteristics up to
1 200 MHz – Work area wiring – Sectional specification**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 33.120.20

ISBN 978-2-8322-0853-3

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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Installation considerations.....	7
4.1 Installation conditions	7
4.2 Climatic conditions.....	7
5 Materials and cable construction	7
5.1 General remarks.....	7
5.2 Cable construction.....	7
5.2.1 Conductor.....	7
5.2.2 Insulation.....	7
5.2.3 Cable element	7
5.2.4 Cable make-up	8
5.2.5 Screening of cable core	8
5.2.6 Sheath.....	8
5.2.7 Identification.....	8
5.2.8 Finished cable	8
6 Characteristics and requirements.....	8
6.1 General remarks.....	8
6.2 Electrical characteristics	9
6.2.1 Conductor resistance	9
6.2.2 Resistance unbalance.....	9
6.2.3 Dielectric strength.....	9
6.2.4 Insulation resistance	9
6.2.5 Mutual capacitance	9
6.2.6 Capacitance unbalance.....	9
6.2.7 Transfer impedance.....	9
6.2.8 Coupling attenuation	10
6.2.9 Current-carrying capacity	10
6.2.10 Shield resistance	10
6.3 Transmission characteristics.....	10
6.3.1 Velocity of propagation (phase velocity)	10
6.3.2 Phase delay and differential delay (delay skew).....	10
6.3.3 Attenuation	11
6.3.4 Unbalance attenuation	11
6.3.5 Near-end crosstalk (<i>NEXT</i>).....	12
6.3.6 Far-end crosstalk (<i>FEXT</i>)	12
6.3.7 Alien (exogenous) near-end crosstalk	12
6.3.8 Alien (exogenous) far-end crosstalk	12
6.3.9 Alien (exogenous) crosstalk of bundled cables	12
6.3.10 Impedance.....	12
6.3.11 Return loss (<i>RL</i>).....	12
6.4 Mechanical and dimensional characteristics and requirements	13
6.4.1 Dimensional requirements.....	13
6.4.2 Elongation at break of the conductors	13

6.4.3	Tensile strength of the insulation.....	13
6.4.4	Elongation at break of the insulation.....	13
6.4.5	Adhesion of the insulation to the conductor	13
6.4.6	Elongation at break of the sheath	13
6.4.7	Tensile strength of the sheath	13
6.4.8	Crush test of the cable	13
6.4.9	Impact test of the cable.....	13
6.4.10	Bending under tension	13
6.4.11	Repeated bending of the cable	14
6.4.12	Tensile performance of the cable	14
6.4.13	Shock test of the cable.....	14
6.4.14	Bump test of the cable	14
6.4.15	Vibration test of a cable	14
6.5	Environmental characteristics	14
6.5.1	Shrinkage of insulation.....	14
6.5.2	Wrapping test of insulation after thermal ageing	14
6.5.3	Bending test of insulation at low temperature	14
6.5.4	Elongation at break of the sheath after ageing.....	14
6.5.5	Tensile strength of the sheath after ageing.....	14
6.5.6	Sheath pressure test at high temperature	14
6.5.7	Cold bend test of the cable	14
6.5.8	Heat shock test.....	15
6.5.9	Damp heat steady state	15
6.5.10	Solar radiation	15
6.5.11	Solvents and contaminating fluids	15
6.5.12	Salt mist and sulphur dioxide	15
6.5.13	Water immersion	15
6.5.14	Hygroscopicity	15
6.5.15	Wicking	15
6.5.16	Flame propagation characteristics of a single cable.....	15
6.5.17	Flame propagation characteristics of bunched cables.....	15
6.5.18	Halogen gas evolution.....	15
6.5.19	Smoke generation.....	15
6.5.20	Toxic gas emission	15
6.5.21	Integrated fire test	15
7	Introduction to the blank detail specification	16
	Bibliography	17
	Table 1 – Transfer impedance.....	10
	Table 2 – Coupling attenuation	10
	Table 3 – Attenuation, constant values	11
	Table 4 – Return loss (<i>RL</i>).....	12

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR DIGITAL COMMUNICATIONS –

Part 8: Symmetrical pair/quad cables with transmission characteristics up to 1 200 MHz – Work area wiring – Sectional specification

FOREWORD

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This consolidated version of IEC 61156-8 consists of the first edition (2009) [documents 46C/887/FDIS and 46C/894/RVD], its corrigendum (July 2009) and its amendment 1 (2013) [documents 46C/957/CDV and 46C/966/RVC]. It bears the edition number 1.1.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience. A vertical line in the margin shows where the base publication has been modified by amendment 1. Additions and deletions are displayed in red, with deletions being struck through.

International Standard IEC 61156-8 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 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 the base publication and its amendment 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.

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MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR DIGITAL COMMUNICATIONS –

Part 8: Symmetrical pair/quad cables with transmission characteristics up to 1 200 MHz – Work area wiring – Sectional specification

1 Scope

This sectional specification relates to IEC 61156-1 and IEC 61156-7. The cables described herein are specified up to 1 200 MHz and are specifically designed to build patch, equipment, and work area cables as defined in ISO/IEC 11801 and ISO/IEC 15018.

It covers a cable having four individually screened (STP) pairs. The cable may be provided with a common screen over the cable core. The transmission characteristics are specified for a frequency range 4 MHz to 1 200 MHz and at 20 °C.

These cables can be used for various communication channels which use as many as four pairs simultaneously. In this sense, this sectional specification provides the cable characteristics required by system developers to evaluate new systems.

The cables covered by this sectional specification are intended to operate with voltages and currents normally encountered in communication systems. These cables are not intended to be used in conjunction with low impedance sources, for example the electric power supplies of public utility mains.

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 60304, *Standard colours for insulation for low-frequency cables and wires*

IEC 61156-1:2007, *Multicore and symmetrical pair/quad cables for digital communications – Part 1: Generic specification*

IEC 61156-7, *Multicore and symmetrical pair/quad cables for digital communications – Part 7: Symmetrical pair cables with transmission characteristics up to 1 200 MHz – Sectional specification for digital and analog communication cables*