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**Multicore and symmetrical pair/quad cables for digital communications –
Part 3: Work area cable – Sectional specification**

INTERNATIONAL
ELECTROTECHNICAL
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CONTENTS

FOREWORD.....	4
1 General	6
1.1 Scope.....	6
1.2 Normative references	6
1.3 Installation considerations.....	6
2 Definitions, materials and cable construction.....	6
2.1 Definitions	6
2.2 Materials and cable construction.....	7
2.2.1 General remarks	7
2.2.2 Cable construction	7
2.2.3 Conductor.....	7
2.2.4 Insulation.....	7
2.2.5 Colour code of insulation.....	7
2.2.6 Cable element	7
2.2.7 Screening of the cable element.....	7
2.2.8 Cable make-up	8
2.2.9 Screening of the cable core.....	8
2.2.10 Sheath.....	8
2.2.11 Colour of sheath	8
2.2.12 Identification	8
2.2.13 Finished cable	8
3 Characteristics and requirements.....	8
3.1 General remarks.....	8
3.2 Electrical characteristics	9
3.2.1 Conductor resistance	9
3.2.2 Resistance unbalance	9
3.2.3 Dielectric strength.....	9
3.2.4 Insulation resistance	9
3.2.5 Mutual capacitance.....	9
3.2.6 Capacitance unbalance.....	9
3.2.7 Transfer impedance.....	9
3.3 Transmission characteristics.....	9
3.3.1 Velocity of propagation (phase velocity)	9
3.3.2 Attenuation	10
3.3.3 Unbalance attenuation	10
3.3.4 Near-end crosstalk (NEXT).....	10
3.3.5 Characteristic impedance.....	11
3.3.6 Structural Return Loss (SRL)	11
3.4 Mechanical and dimensional characteristics and requirements	12
3.4.1 Dimensional requirements.....	12
3.4.2 Elongation at break of the conductors	12
3.4.3 Elongation at break of the insulation.....	12
3.4.4 Elongation at break of the sheath	12
3.4.5 Tensile strength of the sheath.....	12
3.4.6 Crush test of the cable.....	12
3.4.7 Impact test of the cable.....	12
3.4.8 Repeated bending of the cable.....	12

3.4.9	Tensile performance of the cable	13
3.5	Environmental characteristics	13
3.5.1	Shrinkage of insulation.....	13
3.5.2	Wrapping test of insulation after thermal ageing	13
3.5.3	Bending test of insulation at low temperature	13
3.5.4	Elongation at break of the sheath after ageing.....	13
3.5.5	Tensile strength of the sheath after ageing.....	13
3.5.6	Sheath pressure test at high temperature.....	13
3.5.7	Cold bend test of the cable	13
3.5.8	Heat shock test.....	13
3.5.9	Flame propagation characteristics of a single cable.....	13
3.5.10	Flame propagation characteristics of bunched cables.....	13
3.5.11	Acid gas evolution.....	13
3.5.12	Smoke generation.....	14
3.5.13	Toxic gas emission	14
3.5.14	Combined flame and smoke test for cables in environmental handling space	14
4	Introduction to the blank detail specification	14
Table 1	– Constants	10
Table 2	– NEXT, PSNEXT constants	11
Table 3	– Input impedance values	11
Table 4	– Function fitted impedance.....	11
Table 5	– Structural return loss (dB min)	12

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES
FOR DIGITAL COMMUNICATIONS –****Part 3: Work area cable –
Sectional specification**

FOREWORD

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International Standard IEC 61156-6 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.

This edition includes the following significant technical changes with respect to the previous edition:

- a) new requirements for new cables Cat3, and Cat5 applications;
- b) a better numbering in order to take into account the generic specification.

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

FDIS	Report on voting
46C/864/FDIS	46C/869/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 publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard shall be read in conjunction with IEC 61156-1:2002.

The list of all the 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 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.

MULTICORE AND SYMMETRICAL PAIR/QUAD CABLES FOR DIGITAL COMMUNICATIONS –

Part 3: Work area cable – Sectional specification

1 General

1.1 Scope

This sectional specification relates to IEC 61156-1:2002. The cables are specifically intended for work area wiring as defined in ISO/IEC 11801.

This specification defines individually screened, common overall core screen, and unscreened pairs or quads in cables for work area wiring. These cables are suitable for the various communication systems for which the reference is given in the relevant detail specification.

The cables covered by this sectional specification are intended to operate with voltages and currents normally adopted for communication systems. These cables should not be connected to low impedance sources, for example, the public mains electricity supply.

The recommended temperature range during installation is 0 °C to +50 °C. The actual temperature range during installation shall be indicated in the relevant detail specification. The normal operating temperature range shall be –40 °C to +60 °C.

1.2 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 60304, *Standard colours for insulation for low-frequency cables and wires*

IEC 60344, *Calculation of d.c. resistance of plain and coated copper conductors of low-frequency cables and wires - Application guide*

ISO/IEC 11801, *Information technology – Generic cabling for customer premises*

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.