

# INTERNATIONAL STANDARD

# IEC 62153-4-4

First edition  
2006-05

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**Metallic communication cable test methods –**  
**Part 4-4:**  
**Electromagnetic compatibility (EMC) –**  
**Shielded screening attenuation, test method**  
**for measuring of the screening attenuation  $a_S$**   
**up to and above 3 GHz**



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## Metallic communication cable test methods – Part 4-4: Electromagnetic compatibility (EMC) – Shielded screening attenuation, test method for measuring of the screening attenuation $a_S$ up to and above 3 GHz

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# CONTENTS

FOREWORD..... 3

1 Scope..... 5

2 Normative references..... 5

3 Symbols and theoretical background..... 5

    3.1 Electrical symbols..... 5

    3.2 Theoretical background ..... 6

    3.3 Screening attenuation..... 6

    3.4 Relationship between length and the surface transfer impedance  $Z_T$ ..... 7

4 Principles of the measuring method ..... 10

5 Measurement..... 11

    5.1 Equipment..... 11

    5.2 Cable under test..... 11

    5.3 Procedure..... 14

    5.4 Expression of results..... 14

6 Requirement..... 15

Figure 1 – Relationship of  $U_2/U_1$  on a log (f) scale for a single braided cable ..... 8

Figure 2 – Relationship of  $U_2/U_1$  on a linear (f) scale and screening attenuation  $a_s$  on a linear (f) scale for a single braided cable ..... 9

Figure 3 – Measured screening attenuation  $a_s$  formed by the maximum envelope curve to the measured coupling voltage ratio  $U_2/U_1$  of a single braided cable ..... 9

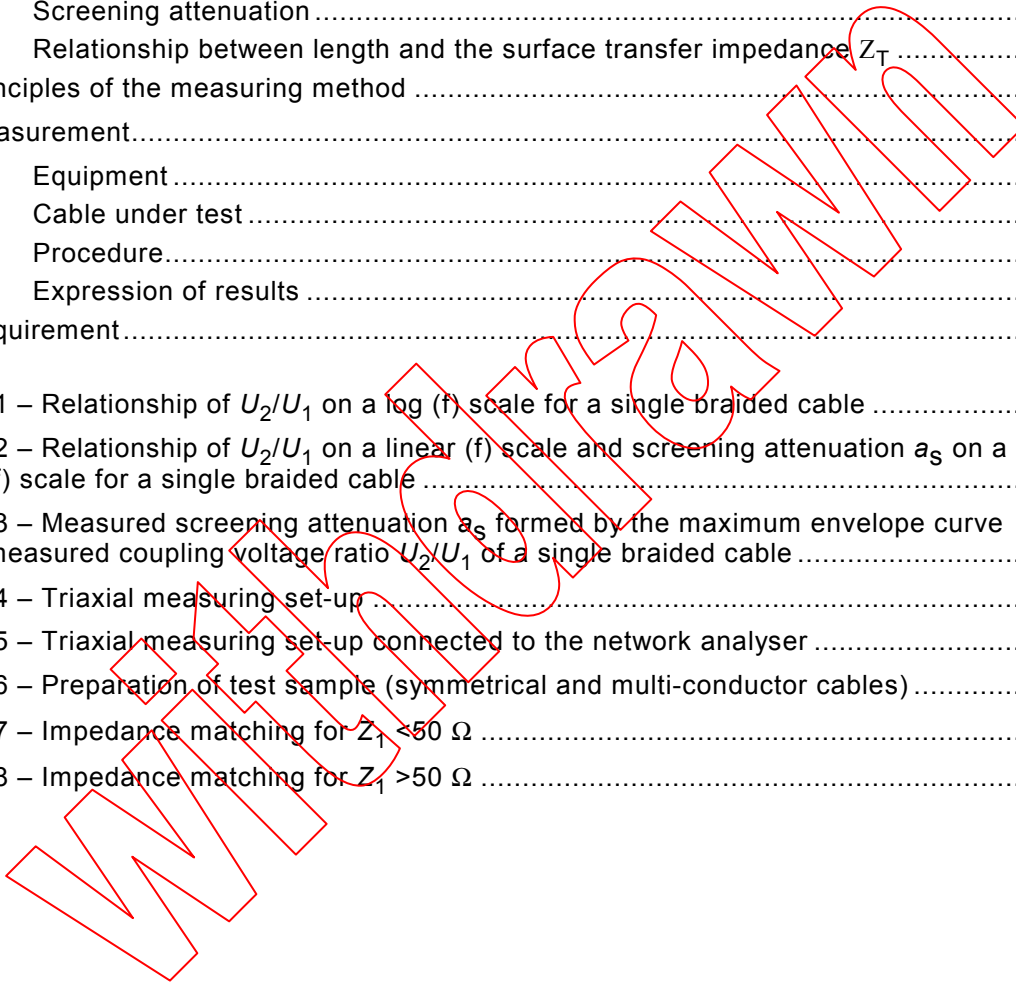
Figure 4 – Triaxial measuring set-up ..... 10

Figure 5 – Triaxial measuring set-up connected to the network analyser ..... 10

Figure 6 – Preparation of test sample (symmetrical and multi-conductor cables) ..... 11

Figure 7 – Impedance matching for  $Z_1 < 50 \Omega$  ..... 13

Figure 8 – Impedance matching for  $Z_1 > 50 \Omega$  ..... 13



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## METALLIC COMMUNICATION CABLE TEST METHODS –

**Part 4-4: Electromagnetic compatibility (EMC) –  
Shielded screening attenuation, test method for measuring of  
the screening attenuation  $a_s$  up to and above 3 GHz**

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International Standard IEC 62153-4-4 has been prepared by subcommittee 46A: Coaxial 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
46A/799/FDIS	46A/816/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.

IEC 62153 consists of the following parts under the general title *Metallic communication cable test methods*:

- Part 1-1: Electrical – Measurement of the pulse/step return loss in the frequency domain using the Inverse Discrete Fourier Transformation (IDFT)
- Part 1-2: Reflection measurement correction<sup>1</sup>
- Part 4-0: Electromagnetic Compatibility (EMC) – Relationship between Surface transfer impedance and Screening attenuation, recommended limits<sup>1</sup>
- Part 4-1: Electromagnetic Compatibility (EMC) – Introduction to electromagnetic (EMC) screening measurements<sup>1</sup>
- Part 4-2: Electromagnetic compatibility (EMC) – Screening and coupling attenuation – Injection clamp method
- Part 4-3: Electromagnetic Compatibility (EMC) – Surface transfer impedance – Triaxial method
- Part 4-4: Electromagnetic Compatibility (EMC) – Shielded screening attenuation, test method for measuring of the screening attenuation "as " up to and above 3 GHz
- Part 4-5: Electromagnetic Compatibility (EMC) – Coupling or screening attenuation – absorbing clamp method
- Part 4-6: Electromagnetic Compatibility (EMC) – Surface transfer impedance – line injection method
- Part 4-7: Electromagnetic Compatibility (EMC) – Shielded screening attenuation, test method for measuring the Transfer impedance Z<sub>T</sub>, the screening attenuation as and the coupling attenuation ac of RF-Connectors up to and above 3 GHz; Tube in Tube method
- Part 4-8: Electromagnetic Compatibility (EMC) – Capacitive Coupling Admittance <sup>1</sup>

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.

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<sup>1</sup> Under consideration.