

Connectors for electronic equipment — Tests and measurements —

Part 23-7: Screening and filtering tests — Test 23g: Effective transfer impedance of connectors

The European Standard EN 60512-23-7:2005 has the status of a
British Standard

ICS 31.220.10

National foreword

This British Standard is the official English language version of EN 60512-23-7:2005. It is identical with IEC 60512-23-7:2005.

The UK participation in its preparation was entrusted by Technical Committee EPL/48, Electromechanical components, to Subcommittee EPL/48/2, Connectors for electronic equipment, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 18 April 2005

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ISBN 0 580 45821 0

**Connectors for electronic equipment –
Tests and measurements
Part 23-7: Screening and filtering tests –
Test 23g: Effective transfer impedance of connectors
(IEC 60512-23-7:2005)**

Connecteurs pour équipements
électroniques –
Essais et mesures
Partie 23-7: Essais d'écrantage
et de filtrage –
Essai 23g: Impédance de transfert
efficace des connecteurs
(CEI 60512-23-7:2005)

Steckverbinder für elektronische
Einrichtungen –
Mess- und Prüfverfahren
Teil 23-7: Prüfungen der Schirmung und
Dämpfung –
Prüfung 23g: Effektive Transferimpedanz
von Steckverbindern
(IEC 60512-23-7:2005)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 48B/1505/FDIS, future edition 1 of IEC 60512-23-7, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60512-23-7 on 2005-03-01.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2005-12-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-03-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60512-23-7:2005 approved by CENELEC as a European Standard without any modification.

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CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 23-7: Screening and filtering tests – Test 23g: Effective transfer impedance of connectors

1 Scope and object

This part of IEC 60512-23 defines a test method which is intended to assess the screening effectiveness of screened non-circular multi-pole, electrically short, connectors by the measurement of the effective (surface) transfer impedance Z_{TE} expressed in Ω , using a network analyzer, for frequencies up to 1 GHz. It is based on the line injection test method according IEC 61196-1 with a specific type of injection wire, which is adapted to the shapes of connectors. Due to the specific test set-up used in the method described hereinafter the connector screen itself is not verified, but the combination of two connectors (male and female) together, i.e. the test results include the effectiveness of the screens of the two connectors and the joint between the connectors and the joints of the cable to the connector.

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 60050(581), *International Electrotechnical Vocabulary (IEV) – Chapter 581: Electro-mechanical components for electronic equipment*

IEC 60068-1:1988, *Test requirements – Part 1: General requirements and guidance*

IEC 60512-1-100: *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 1-100: General – Applicable publications*

IEC 60512-23-3: *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 23-3: Screening and filtering tests – Test 23c: Screening effectiveness of connectors and accessories*

IEC 61196-1:1995, *Radiofrequency cables – Part 1: Generic specification – General, definitions, requirements and test methods*