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**Nosljive elektronske naprave in tehnologije - 204-1. del: Elektronski tekstil - Preskusna metoda za ocenjevanje pralne vzdržljivosti e-tekstilnih izdelkov (IEC 63203-204-1:2023)**

Wearable electronic devices and technologies - Part 204-1: Electronic textile - Test method for assessing washing durability of e-textile products (IEC 63203-204-1:2023)

Tragbare elektronische Geräte und Technologien - Teil 204-1: Elektronische Textilien - Prüfverfahren zur Beurteilung der Waschbeständigkeit von E-Textilerzeugnissen (IEC 63203-204-1:2023)

Technologies et dispositifs électroniques prêts-à-porter - Partie 204-1: Textile électronique - Méthode d'essai pour l'évaluation de la durabilité au lavage des produits e-textiles (IEC 63203-204-1:2023)

**Ta slovenski standard je istoveten z: EN IEC 63203-204-1:2023**

**ICS:**

59.080.80      Inteligentne tekstilije      Smart textiles

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NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

**Wearable electronic devices and technologies - Part 204-1:  
Electronic textile - Test method for assessing washing durability  
of e-textile products  
(IEC 63203-204-1:2023)**

Technologies et dispositifs électroniques prêts-à-porter -  
Partie 204-1: Textile électronique - Méthode d'essai pour  
l'évaluation de la durabilité au lavage des produits e-textiles  
(IEC 63203-204-1:2023)

Tragbare elektronische Geräte und Technologien -  
Teil 204-1: Elektronische Textilien - Prüfverfahren zur  
Beurteilung der Waschbeständigkeit von E-  
Textilerzeugnissen  
(IEC 63203-204-1:2023)

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 63203-204-1:2023 (E)****European foreword**

The text of document 124/214/FDIS, future edition 2 of IEC 63203-204-1, prepared by IEC/TC 124 "Wearable electronic devices and technologies" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63203-204-1:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-01-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-04-20

This document supersedes EN IEC 63203-204-1:2021 and all of its amendments and corrigenda (if any).

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**Endorsement notice**

The text of the International Standard IEC 63203-204-1:2023 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 139	-	Textiles - Standard atmospheres for conditioning and testing	EN ISO 139	-
ISO 6330	2012	Textiles - Domestic washing and drying procedures for textile testing	EN ISO 6330	2012 <sup>1</sup>

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[SIST EN IEC 63203-204-1:2023](https://standards.iteh.ai/catalog/standards/sist/35d32084-c7a1-4ecc-89bb-471590ee17c3/sist-en-iec-63203-204-1-2023)

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<sup>1</sup> This standard has been withdrawn and replaced with EN ISO 6330:2021.





IEC 63203-204-1

Edition 2.0 2023-03

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Wearable electronic devices and technologies –  
Part 204-1: Electronic textile – Test method for assessing washing durability of  
e-textile products**

**Technologies et dispositifs électroniques prêts-à-porter –  
Partie 204-1: Textile électronique – Méthode d'essai pour l'évaluation de la  
durabilité au lavage des produits e-textiles**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –****Part 204-1: Electronic textile – Test method for assessing washing durability of e-textile products**

## FOREWORD

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IEC 63203-204-1 has been prepared by IEC technical committee 124: Wearable electronic devices and technologies. It is an International Standard.

This second edition cancels and replaces the first edition published in 2021. This edition constitutes a technical revision.

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

- a) Subclause 3.2 on conductive textiles has been deleted.
- b) Subclause 3.3 on leisurewear and sportswear has been deleted.
- c) Subclause 3.2 on washing procedure has been added.
- d) Figure 1 has been updated.

- e) The optional measurement of conductive tracks has been added in 4.1 to the checklist before carrying out washing durability test.
- f) Additions have been made to the list in Clause 6.

The text of this International Standard is based on the following documents:

Draft	Report on voting
124/214/FDIS	124/217/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 63203 series, published under the general title *Wearable electronic devices and technologies*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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- withdrawn,
- replaced by a revised edition, or
- amended.

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