

INTERNATIONAL STANDARD

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

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





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124/139/FDIS	124/145/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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WEARABLE ELECTRONIC DEVICES AND TECHNOLOGIES –

Part 204-1: Electronic textile – Test method for assessing washing durability of leisurewear and sportswear e-textile systems

1 Scope

This document specifies a household washing durability test method for leisurewear and sportswear e-textile systems. This document includes testing procedures for leisurewear and sportswear products with electrically conductive components and sensors to collect the data of the user.

This document does not cover safety or heat-generation test methods. Products containing other components than those listed in this clause are not covered by this document.

2 Normative references

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.

ISO 139, *Textiles – Standard atmospheres for conditioning and testing*

ISO 6330, *Textiles – Domestic washing and drying procedures for textile testing*

EN 16812:2016, *Textiles and textile products – Electrically conductive textiles – Determination of the linear electrical resistance of conductive tracks*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
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3.1

e-textile system

ETS

product made from textiles and integrated electronics that together perform one or more functions

3.2

conductive textile

textile with electrical conductivity

3.3

leisurewear and sportswear

clothing worn to enjoy leisure and sports (excluding accessories such as watches and glasses)