

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक

पहनने योग्य विद्युत उपकरण एवं प्रौद्योगिकियां –

भाग 201: इलेक्ट्रॉनिक टेक्सटाइल –

**अनुभाग 2: सिमुलेटेड माइक्रोक्लाइमेट के अंतर्गत चालकीय वस्त्रों
की विद्युत प्रतिरोधकता का निर्धारण।**

Draft Indian Standard

Wearable electronic devices and technologies –

Part 201 Electronic textile –

***Section 3: Determination of electrical resistance of
conductive textiles under simulated microclimate***

ICS 59.080.80

NATIONAL FOREWORD

(Formal clauses to be added later)

This Draft Indian Standard (Part 201/Section 3) which is identical with IEC 63203-201-3 : 2021 ‘Wearable electronic devices and technologies – Part 201-3: Electronic textile – Determination of electrical resistance of conductive textiles under simulated microclimate’ issue by the Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendation of Wearable Electronic Devices and Technologies Sectional Committee LITD 33 and approval of the Electronics and Information Technology Division Council.

The text of IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current Practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 11092:2014, Textiles – Physiological effects – Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)	IS 17376 : 2020 ISO 11092 : 2014 Textiles – Determination of physiological effects – Measurement of thermal and water-vapour resistance under steady-state conditions (Sweating guarded-hot plate test)	Identical under dual numbering

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendment

<i>International Standards</i>	<i>Title</i>
ISO 139	Textiles – Standard atmospheres for conditioning and testing
ISO 21232:2018	Textiles – Determination of moisturizing effect of textile materials by measurement of microclimate between textiles and simulated human skin using sweating guarded hotplate
EN 16812:2016	Textiles and textile products – Electrically conductive textiles – Determination of the linear electrical resistance of conductive tracks

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 ‘Rules for rounding off numerical values (Second Revision)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard

SCOPE of IEC 63203-201-3:

This part of IEC 63203-201 specifies a test method for determination of the electrical resistance of conductive fabrics under simulated microclimate within clothing. The microclimate is the climate of the small air layer between the skin and clothing having a specific temperature and humidity. This test method can be applied to conductive fabrics including multilayer assemblies for use in clothing.

Note: The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details please refer IEC 63203-201-3: 2021 or kindly contact.

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