

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 63203-201-2
Edition 1.0 2022-04

IEC 63203-201-2
Édition 1.0 2022-04

**WEARABLE ELECTRONIC DEVICES
AND TECHNOLOGIES –**

**Part 201-2: Electronic textile – Measurement
methods for basic properties of conductive
fabrics and insulation materials**

**TECHNOLOGIES ET DISPOSITIFS
ÉLECTRONIQUES PRÊTS-À-PORTER –**

**Partie 201-2: Textile électronique – Méthodes de
mesure des propriétés fondamentales des
étoffes conductrices et des matériaux isolants**

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

Figure 2, Figure 3, Figure 4, and Figure 5

Replace the existing keys of the above figures (excluding values or symbols):

- 1 stretchable substrate
- 2 stretchable conductor
- 3 stretchable insulator

with the following new key:

- 1 non-conductive fabric as substrate
- 2 conductive fabric
- 3 cover insulation material

6.1.3.2.1 Procedure

Replace the existing list item a) with the following new list item a):

- a) Test specimens should be prepared as shown in Figure 2. The test specimens consist of a substrate, a rectangular **conductive fabric** of 70 mm × 210 mm, and a cover insulation layer of 70 mm × 70 mm.

The test specimen substrate shall have a margin of at least 5 mm on each side of the edges of the conductor. Dimensional errors of ±1 mm are allowed for **conductive fabric** and cover insulation layer.

6.1.3.3.1 Procedure

Replace the existing third paragraph with the following new third paragraph:

Place a 25 mm diameter electrode on the test specimen insulator layer at a pressure of 1 kg/cm² (the area of 25 mm diameter circle is 4,9 cm²; that is, the weight of the electrode is 4,9 kg). The electrode is placed at least 10 mm away from the edge of the insulator layer. Measure the breakdown voltage between electrode and **conductive fabric** with an electric breakdown tester conforming to IEC 60243-1:2013. Apply AC voltage, gradually increase the voltage and read the voltage value at which the dielectric breakdown occurs. At least five points are measured and the maximum, minimum and average values and breakdown mode of each test are recorded.

6.1.3.5.1 Procedure

Replace the existing second paragraph with the following new second paragraph:

Hold the test specimen on a horizontal insulation table with the substrate side facing upward. Place a 25 mm diameter electrode on the test specimen insulator layer at a pressure of 1 kg/cm² (the area of 25 mm diameter is 4,9 cm²; that is, the weight of the electrode is 4,9 kg). The electrode is placed at least 15 mm away from the edge of the substrate. Measure the breakdown voltage between electrode and **conductive fabric** with an electric breakdown tester conforming to IEC 60243-1:2013. Apply AC voltage, gradually increase the voltage and read the voltage value at which the dielectric breakdown occurs. At least five points are measured and the maximum, minimum and average values and breakdown mode of each test are recorded.

IECNORM.COM : Click to view the full PDF of IEC 63203-201-2:2022/COR1:2023