



# INTERNATIONAL STANDARD



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**Electrical test methods for electric cables –  
Part 3: Test methods for partial discharge measurements on lengths of extruded  
power cables**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### ELECTRICAL TEST METHODS FOR ELECTRIC CABLES –

### Part 3: Test methods for partial discharge measurements on lengths of extruded power cables

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International Standard IEC 60885-3 has been prepared by IEC technical committee 20: Electric cables.

This second edition of IEC 60885-3 cancels and replaces the first edition, published in 1988 and constitutes a technical revision.

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

- The definition of sensitivity as twice the background noise level has been removed and replaced by a practical assessment of sensitivity based on the minimum level of detectable discharge.
- References to measurements of pulse heights in mm on an oscilloscope have been replaced by measurements of partial discharge magnitude in pC.
- The order of the clauses has been revised in line with the general numbering scheme of IEC standards and to provide clarity in order to facilitate its practical use. Section 3 of the first edition (Application guide) has been removed as it is considered that background information is better obtained from the original references as listed in the bibliography.

The text of this standard is based on the following documents:

FDIS	Report on voting
20/1560/FDIS	20/1587/RVD

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

A list of all parts in the IEC 60885 series, published under the general title *Electrical test methods for electric cables*, can be found on the IEC website.

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## ELECTRICAL TEST METHODS FOR ELECTRIC CABLES –

### Part 3: Test methods for partial discharge measurements on lengths of extruded power cables

#### ~~1 SECTION ONE – GENERAL~~

##### **1 Scope**

This part of IEC 60885 specifies the ~~essential requirements test methods~~ for partial discharge (PD) measurements on lengths of extruded power cable, ~~but does not include measurements made on installed cable systems.~~

Reference is made to IEC 60270 which gives the techniques and considerations applicable to partial discharge measurements in general. ~~The first edition of IEC 60270 appeared in 1968. All references in this standard apply to the second edition (1981).~~

##### **2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60270:2000, *High-voltage test techniques – Partial discharge measurements*

# INTERNATIONAL STANDARD

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**Electrical test methods for electric cables –  
Part 3: Test methods for partial discharge measurements on lengths of extruded  
power cables**

**Méthodes d'essais électriques pour les câbles électriques –  
Partie 3: Méthodes d'essais pour la mesure des décharges partielles sur des  
longueurs de câbles de puissance extrudés**



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