



National Standards Authority of Ireland

IRISH STANDARD

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ICS 29.120.10

**LIQUID TIGHT SHEATHING SYSTEMS FOR
CABLE MANAGEMENT**

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NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

Liquid tight sheathing systems for cable management

Systèmes de gaines souples de
protection contre les liquides pour la
gestion
du câblage

Flüssigkeitsdichte Elektroinstallations-
schlauchsysteme

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CENELEC

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

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 213, Cable management. The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50369 on 2005-04-12.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2006-04-01
 - latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-04-01
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1 Scope

This European Standard specifies the requirements against ingress of water and tests for flexible non-flame propagating liquid tight sheathing systems for the protection and management of insulated conductors and/or cables in electrical installations or in communication systems up to 1 000 V a.c. and/or 1 500 V d.c. This standard applies to metallic, non-metallic and composite liquid tight sheathing systems including threaded fittings which terminate the system. This European Standard does not apply to conduit systems for electrical installations which come within the scope of EN 50086 series as well as EN 61386 series. Liquid tight sheathing systems do not provide mechanical protection to insulated conductors and/or cables. They are not for use within the construction of buildings as a component of a fixed wiring system.

NOTE Earthing conductors may or may not be insulated.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 60423	1994	Conduits for electrical purposes – Outside diameters of conduits for electrical installations and threads for conduits and fittings (IEC 60423:1993, mod.)
EN 60529	1991	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)
EN 60695-2-11	2001	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (IEC 60695-2-11:2000)
EN 60695-11-2	2003	Fire hazard testing – Part 11-2: Test flames - 1 kW nominal pre-mixed flame - Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-2:2003)

3 Definitions

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

3.1

liquid tight sheathing system

closed wiring system consisting of liquid tight sheathing and terminating fittings for the protection against ingress of liquid and management of insulated conductors and/or cables in electrical or communication installations, allowing them to be drawn in and/or replaced, but not to be inserted laterally

3.2

liquid tight sheathing

component of a closed wiring system which protects insulated conductors and/or cables against water

3.3

terminating fitting

terminating device designed to terminate a liquid tight sheathing system

3.4

metallic sheathing and/or terminating fitting

sheathing or terminating fitting which consists of metal only

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