

Irish Standard I.S. EN 50290-2-35:2016

Communication cables - Part 2-35: Common design rules and construction - Polyamide sheathing compound

 $\ensuremath{\mathbb C}$ CENELEC 2016 $\hfill No copying without NSAI permission except as permitted by copyright law.$

I.S. EN 50290-2-35:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on: EN 50290-2-35:2016 *Published:* 2016-08-19

<i>This document was published</i> under the authority of the NSAI		ICS number:			
and comes into effect on:		29.035.20			
		33.120.10			
2016-09-06					
		NOTE: If blank see CEN/CENELEC cover page			
NSAI	T +353 1	1 807 3800 Sales:			
1 Swift Square,	F +353 1	1 807 3838 T +353 1 857 6730			
Northwood, Santry	E standa	lards@nsai.ie F +353 1 857 6729			
Dublin 9	W NSAI.i	l.ie W standards.ie			
Údarás um Chaighdeáin Náisiúnta na hÉireann					

National Foreword

I.S. EN 50290-2-35:2016 is the adopted Irish version of the European Document EN 50290-2-35:2016, Communication cables - Part 2-35: Common design rules and construction - Polyamide sheathing compound

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

EUROPEAN STANDARD NORME EUROPÉENNE

EN 50290-2-35

EUROPÄISCHE NORM

August 2016

ICS 29.035.20; 33.120.10

English Version

Communication cables - Part 2-35: Common design rules and construction - Polyamide sheathing compound

Câbles de communication - Partie 2-35: Règles de conception communes et construction - Mélange pour le gainage en polyamide Kommunikationskabel - Teil 2-35: Gemeinsame Regeln für Entwicklung und Konstruktion - Polyamid-Mantelmischung

This European Standard was approved by CENELEC on 2016-07-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2016 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

This is a free page sample. Access the full version online. I.S. EN 50290-2-35:2016 $\,$

Contents

Eur	opean foreword	.3
1	Scope	.4
2	Normative references	.4
3	Compound requirements	.4
4	Cable test requirements	.5
5	Health, Safety and Environmental Regulations	.5

European foreword

This document (EN 50290-2-35:2016) has been prepared by CLC/TC 46X, "Communication cables".

The following dates are fixed:

•	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2017-07-22
•	latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2019-07-22

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

EN 50290-2-35:2016 (E)

1 Scope

This Part 2-35 of EN 50290 gives specific requirements for Polyamide and Polyamide alloys to be used for the inner and outer sheathing of cables.

It is essential to read this European Standard in conjunction with Part 2-20 of EN 50290, the product standards EN 50288-7 and EN 61158 and other applicable product standards.

Using raw material and type test data as outlined in this standard, the raw material supplier will have sufficient data to demonstrate compliance and warrant that the material is suitable for the specified application.

Table 1 — Polyamide sheathing compound

Туре	Maximum operating temperature
PA	90 °C

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.

EN 60811-401, Electric and optical fibre cables — Test methods for non-metallic materials — Part 401: Miscellaneous tests — Thermal ageing methods — Ageing in an air oven (IEC 60811-401)

EN 60811-404, Electric and optical fibre cables — Test methods for non-metallic materials — Part 404: Miscellaneous tests — Mineral oil immersion tests for sheaths (IEC 60811-404)

EN 60811-501, Electric and optical fibre cables — Test methods for non-metallic materials — Part 501: Mechanical tests — Tests for determining the mechanical properties of insulating and sheathing compounds (IEC 60811-501)

EN 60811-605, Electric and optical fibre cables — Test methods for non-metallic materials — Part 605: Physical tests — Measurement of carbon black and/or mineral filler in polyethylene compounds (IEC 60811-605)

EN 60811-606, *Electric and optical fibre cables* — Test methods for non-metallic materials — Part 606: Physical tests — Methods for determining the density (IEC 60811-606)

EN 60811-607, Electric and optical fibre cables — Test methods for non-metallic materials — Part 607: Physical tests — Test for the assessment of carbon black dispersion in polyethylene and polypropylene (IEC 60811-607)

EN ISO 62, Plastics — Determination of water absorption (ISO 62)

EN ISO 868, Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness) (ISO 868)

3 Compound requirements

The tests are to be carried out on granules or moulded plaques (or other suitable forms) produced from granules of the supplied compound. This data shall describe the general performance of Polyamide compounds. The data shall be provided by the compound supplier and therefore can be included in any supply specification of the raw material. Test methods, relevant requirements and limits are shown in Table 2. In the case of special applications, additional requirements could be specified.



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation