



SLOVENSKI STANDARD
oSIST prEN 50626-2:2017
01-april-2017

Podzemni kanalski sistem za zaščito in upravljanje izoliranih električnih ali komunikacijskih kablov - 2. del: Posebne zahteve za kanale za posebno uporabo

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 2: Particular requirements for conduits for special applications

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Systèmes de conduits enterrés dans le sol pour la protection et la gestion des câbles électriques isolés ou des câbles de communication - Partie 2: Exigences particulières pour conduits destinés aux applications spéciales

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Ta slovenski standard je istoveten z: prEN 50626-2:2017

ICS:

29.120.10	Inštalacijske cevi za električne namene	Conduits for electrical purposes
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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 50626-2

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ICS 29.120.10

English Version

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 2: Particular requirements for conduits for special applications

Systèmes de conduits enterrés dans le sol pour la protection et la gestion des câbles électriques isolés ou des câbles de communication - Partie 2: Exigences particulières pour conduits destinés aux applications spéciales

This draft European Standard is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2017-04-21.

It has been drawn up by CLC/TC 213.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

prEN 50626-2:2017 (E)

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17 European foreword

18 This document (prEN 50626-2:2017) has been prepared by CLC/TC 213, "Cable management
19 systems".

20 This document is currently submitted to the Enquiry.

21 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

22 This document has been prepared under a mandate given to CENELEC by the European Commission
23 and the European Free Trade Association, and supports essential requirements of EU Directive(s).

24 For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this
25 document.

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26 A conduit systems buried underground that conforms to this European Standard is deemed to be safe
27 for use.

28 This is a European Standard for cable management products used for electro-technical purposes. It
29 relates to the Council Directives on the approximation of laws, regulations and administrative
30 provisions of the Member States relating to Low Voltage Directive 2014/35/EU through consideration
31 of the essential requirements of this directive.

32 This European Standard is supported by separate standards to which references are made.

prEN 50626-2:2017 (E)**33 Introduction**

34 The EN 50626 series specifies requirements for conduit systems buried underground for the
35 protection and management of insulated electrical cables or communication cables. For general
36 applications, requirements of prEN 50626-1 are considered sufficient. For special applications,
37 particular characteristics and tests are required in order to fulfil the expected service time. Therefore,
38 the need to introduce material and lifetime requirements are considered necessary. In most of these
39 special applications, conduits made of thermoplastics materials are used.

40 For developing these particular characteristics and requirements, members of CEN/TC155 were
41 invited to contribute to the drafting of this Part 2.

42 In this prEN 50626-2, specific material and lifetime requirements are covered. Some of these
43 requirements are under consideration within CEN/TC155. This is done without interfering with the
44 approach of CLC/TC213 regarding the prescription of type tests for checking the product
45 characteristics.

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46 1 Scope

47 *This clause of part 1 is applicable with the following addition:*

48 This European Standard specifies particular requirements and tests for conduit systems buried
49 underground for the protection and management of insulated conductors and/or power cables or
50 communication cables that are installed by different techniques, for example, blowing (including
51 floating), pulling or pushing directly after installation of the conduit or during its expected performance
52 time.

53 This standard is applicable to all conduits with circular cross section manufactured individually or
54 manufactured as a part of an assembly

55 NOTE Reference is made to other documents for additional material requirements where applicable.

56 2 Normative references

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

60 *This clause of part 1 is applicable.*

61 3 Terms and definitions

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

63 *This clause of part 1 is applicable with the following additions:*

64 3.101

65 performance time

66 predicted service time of the installed conduit

67 Note 1 to entry: The service time takes into account continuous external loads and occasional internal loads.
68 Both types of loads are to be taken into account when the predicted service time is declared.

69 4 General requirements

70 *This clause of part 1 is applicable.*

71 5 General conditions for tests

72 *This clause of part 1 is applicable with the following modifications:*

73 *In the first paragraph, delete the second sentence.*

74 *Replace the second paragraph with the following:*

75 “The detachable conduit fitting shall be capable of being assembled again, after the test, according to
76 the manufacturer's instructions without loss of the declared properties according to Clause 6.”

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prEN 50626-2:2017 (E)**77 6 Classification**

78 *This clause of part 1 is applicable, except as follows:*

79 *Addition:*

80 6.1 According to mechanical properties

81 *This clause of part 1 is applicable with the following modifications:*

82 6.1.1 Resistance to compression

83 *This subclause of part 1 is applicable with the following addition:*

84 For thermoplastic non-pressure conduits, the following classifications may be used:

6.1.1.101 Nominal Ring Stiffness 2 (SN2)

6.1.1.102 Nominal Ring Stiffness 4 (SN4)

6.1.1.103 Nominal Ring Stiffness 8 (SN8)

6.1.1.104 Nominal Ring Stiffness 16 (SN 16)

6.1.1.105 Nominal Ring Stiffness 32 (SN 32)

6.1.1.106 Nominal Ring Stiffness 64 (SN 64)

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85 6.1.2 Resistance to impact

86 *This subclause of part 1 is applicable with the following addition:*

87 For thermoplastic non-pressure conduits, the following classifications may be used:

6.1.2.101 True Impact Ratio 23 °C (TIR 23)

6.1.2.102 True Impact Ratio 0 °C (TIR 0)

6.1.2.103 True Impact Ratio -10 °C (TIR -10)

88 6.1.3 Resistance to bending

89 *This subclause of part 1 is applicable with the following exceptions:*

90 For thermoplastics materials, minimum allowed cold bending radius of the conduit in m shall be
91 declared by the manufacturer.

92 *Addition:*

93 6.1.101 Pulling force

94 Maximum allowed pulling force of the system in N shall be declared by the manufacturer, if applicable.

95 6.1.102 Short-term resistance to internal pressure

96 Maximum short-term resistance to internal pressure of the system in bar shall be declared by the
97 manufacturer, if applicable.

98 **6.2 According to resistance to external influences**

99 **6.2.1 Protection against ingress of solid objects and ingress of water**

100 *This subclause of part 1 is applicable with the following modifications:*

101 *Addition:*

102 Additional classifications for thermoplastic materials:

103 **6.2.1.101** Tight

104 **6.2.2 Protection against ingress of water**

105 *This subclause of part 1 is not applicable.*

106 **6.2.3 Resistance against corrosion**

107 *This subclause of part 1 is applicable.*

108 **6.3 According to resistance to flame propagation**

109 *This subclause of part 1 is applicable.*

110 *Addition:*

111 **6.101 Performance time**

112 **6.101.1** 25 years

113 **6.101.2** 50 years

114 **6.101.3** 100 years

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115 **7 Marking and documentation**

116 *Replacement:*

117 **7.1** Each conduit shall be marked with

118 — the manufacturer's or responsible vendor's name or trade mark or identification mark;

119 — a product identification mark, which may be, for example, the code of this standard, a catalogue
120 number, a symbol or the like, in such a way that it can be identified in the manufacturer's or
121 responsible vendor's literature;

122 — the compression codes according to 6.1.2 shall be marked immediately before the impact codes
123 according to 6.1.1.

124 **7.2** The conduit shall be marked with the following if applicable:

125 — maximum allowed pulling force according to 6.1.101;

126 — maximum short term resistance to internal pressure of the system according to 6.1.102;

127 — performance time according to 6.101;

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128 — abbreviations that identify the type of thermoplastics material used; for example, “PP” for
129 polypropylene, “PE” for polyethylene or “PVC-U” for polyvinyl chloride plasticized.

130 **7.3** All individual conduits manufactured as a part of an assembly shall be marked in accordance
131 with 7.1.

132 **7.4** Conduits shall be marked according to 7.1 at regular intervals along their length of preferably 1 m
133 but not longer than 3 m.

134 **7.5** The manufacturer shall be responsible for indicating the compatibility of parts within a conduit
135 system.

136 **7.6** The manufacturer shall provide in his literature its classification in accordance with Clause 6 and
137 all information necessary for the proper and safe transport, storage, installation and use.

138 **7.7** The conduit fitting shall be marked in accordance with 7.1, on the product wherever possible, but,
139 where this is impractical, then the mark may be on a label attached to the product, or on the smallest
140 supplied package.

141 **7.8** *Compliance with 7.1 to 7.7 is checked by inspection.*

142 **7.9** *Clause 7.5 of part 1 is applicable.*

143 **7.10** *Clause 7.6 of part 1 is applicable.*

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144 8 Dimensions

145 *This subclause of part 1 is applicable with the following addition:*

146 NOTE For thermoplastics conduits, additional requirements for dimensions are under consideration.
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147 9 Construction

148 *This clause of part 1 is applicable.*

149 10 Mechanical properties

150 *This clause of part 1 is applicable with the following modification:*

151 *Compliance is checked by the tests of 10.2 to 10.103.*

152 10.2 Compression test

153 *This clause of part 1 is applicable with the following addition:*

154 NOTE For thermoplastic non-pressure conduits, requirements for compression test are under consideration.

155 10.3 Impact test

156 *This clause of part 1 is applicable with the following addition.*

157 NOTE For thermoplastic non-pressure conduits, requirements for impact test are under consideration.

158 10.4 Bending test

159 *This clause of part 1 is applicable with the following addition.*