

# SLOVENSKI STANDARD oSIST prHD 626 S2:2020

01-oktober-2020

Nadzemni razvodni kabli za naznačeno napetost Uo/U(Um): 0,6/1 (1,2) kV

Overhead distribution cables of rated voltage U0/U(Um): 0,6/1 (1,2) kV

# iTeh STANDARD PREVIEW

Ta slovenski standard je istoveten z: prHD 626 S2

oSIST prHD 626 S2:2020

https://standards.iteh.ai/catalog/standards/sist/742903ea-7571-4991-ad06-2143a9df4ac4/osist-prhd-626-s2-2020

ICS:

29.060.20 Kabli Cables

29.240.20 Daljnovodi Power transmission and

distribution lines

oSIST prHD 626 S2:2020 en

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# HARMONIZATION DOCUMENT DOCUMENT D'HARMONISATION HARMONISIERUNGSDOKUMENT

# DRAFT prHD 626 S2

August 2020

ICS 29.060.20

Will supersede HD 626 S1:1996 and all of its amendments and corrigenda (if any)

#### **English Version**

# Overhead distribution cables of rated voltage U0/U(Um): 0,6/1 (1,2) kV

To be completed To be completed

This draft Harmonization Document is submitted to CENELEC members for enquiry. Deadline for CENELEC: 2020-11-13.

It has been drawn up by CLC/TC 20.

If this draft becomes a Harmonization Document, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

This draft Harmonization Document was established by CENELEC in three official versions (English, French, German).

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

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1	Contents				
2	Eu	European foreword			
3	Intr	Introduction			
4	1	Scope		7	
5		1.1 Ge	neral	7	
6		1.2 Ob	ject	7	
7	2	Normative	ormative references		
8	3	Terms and	and definitions		
9		3.1 De	finitions relating to insulating and sheathing materials	7	
10		3.2 De	finitions relating to the tests	8	
11		3.3 Oth	her	9	
12	4	Marking		9	
13		4.1 Ind	lication of origin	9	
14		4.1.1	General	9	
15		4.1.2	Continuity of Marks	10	
16		4.2 Add	ditional Marking	10	
17			rability		
18		4.4 Leç	gibilityiTeh STANDARD PREVIEW	10	
19		4.5 Co	mmon markinge of the name CENELE standards.iteh.ai)	10	
20					
21	5	Core ident	e identification <u>os(st prHD 626 S2:2020</u>		
22	6	General re	equirements for the construction of cables s/sist/742903ea-7571-4991-ad06	12	
23			neral 2143a9df4ac4/osist-prhd-626-s2-2020		
24		6.2 Co	nductors		
25		6.2.1	Material	12	
26		6.2.2	Electrical resistance	12	
27		6.2.3	Separator tape	12	
28		6.3 Ins	sulation or insulating sheath	12	
29		6.3.1	Material	12	
30		6.3.2	Application	12	
31		6.3.3	Colour of the insulation	12	
32		6.3.4	Thickness	13	
33		6.3.5	Mechanical properties before and after ageing	13	
34		6.3.6	Additional properties	13	
35		6.4 Ov	ersheath (if any)	13	
36		6.4.1	Material		
37		6.4.2	Application		
38		6.4.3	Colour of the sheath	13	
39		6.4.4	Thickness	13	
40		6.4.5	Mechanical properties before and after ageing	13	

## oSIST prHD 626 S2:2020

### prHD 626 S2:2020

### Part 1

41		6.4.6 Other properties	13
42	6.5	Assembly of cores	13
43	7 Tes	ts on completed cables	14
44	8 Sea	ling and packing	14
45	9 Cur	rent carrying capacity	14
46	10	Guide to use and selection of cables	14
47	Annex A	(informative) Guide to use and selection of cables	25
48	A.1	Recommendations for use	25
49	A.1.1	Permissible applications	25
50	A.1.2	Highest permissible voltage	25
51	A.2	Recommendations for storage and transportation	25
52	A.2.1	Delivery	25
53	A.2.2	Cable-end sealing	26
54	A.2.3	Transport	26
55	A.3	Recommendations for cable laying and installation	27
56	A.3.1	Installation and operating conditions	27
57	A.3.2	Minimum permissible installation temperature	27
58	A.3.3	Cable layingTen STANDARD PREVIEW	28
59	A.3.3.1	Pulling by cable stocking	28
60	A.3.3.2	Cable route (standards.iteh.ai)	
61	A.4	Minimum bending radius <u>oSIST prHD 626 SZ:2020</u>	28
62 63		Z (informative) Relationship between this European standard and the safety objectives of [2014 OJ L96] aimed to be covered address: public 626-s2-2020	f Directive
64	Bibliogra	phy	31

Part 1

### European foreword

66

- 67 This document (prHD 626 S2:2020) has been prepared by CLC/TC 20, "Electric cables".
- This document is currently submitted to the Enquiry.
- The following dates are proposed:
  - latest date by which the existence of this (doa) dor + 6 months document has to be announced at national
  - latest date by which this document has to be (dop) dor + 12 months implemented at national level by publication of an identical national standard or by endorsement
  - latest date by which the national standards (dow) dor + 36 months conflicting with this document have to be withdrawn (to be confirmed or modified when voting)
- 70 This document will supersede HD 626 S1:1996 and all of its amendments and corrigenda (if any).
- 71 This document has been prepared under a mandate given to CENELEC by the European Commission and the
- 72 European Free Trade Association, and supports essential requirements of EU Directive(s).
- 73 For the relationship with EU Regulation 2014/35/EU, see informative Annex ZZ, which is an integral part of this
- 74 document.

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References to other HDs, ENs and International Standards are given in the particular parts or sections.

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Part 1

76

#### Introduction

- 77 This edition has been prepared to cover the latest market requests on overhead distribution cables of rated
- 78 voltage Uo/U(Um): 0.6/1 (1.2) kV. Since the publication of the first edition in 1996 and the amendments in 1997
- 79 and 2002, a number of particular sections have been withdrawn, new sections have been added from countries
- 80 not covered in the first edition, technical improvements have been added and a number references to test
- 81 method standards were updated. The Table of Content indicates even the withdrawn sections.
- Part 1 of this document contains the General Requirements applicable to cables for overhead distribution and 82
- service, specified in the particular sections of Parts 3 to 10. In general, bundle assembled cores are specified. 83
- Single core cables are specified in Part 9. 84
- 85 The document contains the following Parts, arranged according to the main constructional features of the cables
- 86 covered:
- 87 HD 626 Part 1 General Requirements
- 88 HD 626 Part 2 Additional Test Methods
- 89 HD 626 Part 3 PE insulated self-supporting cables, (bundle assembled cores)
- 90 HD 626 Part 4 XLPE insulated self-supporting cables, (bundle assembled cores)
- 91 HD 626 Part 5 PE insulated cables with messenger, (bundle assembled cores)
- HD 626 Part 6 XLPE insulated cables with messenger, (bundle assembled cores) 92
- 93 HD 626 Part 7 XLPE insulated and sheathed self-supporting cables, (bundle assembled cores)
- HD 626 Part 8 XLPE insulated and PVC sheathed cables with messenger, (bundle assembled cores) 94
- 95 HD 626 Part 9 Single core cables HD 626 Part 9 Single core cables (standards.iteh.ai)
  HD 626 Part 10 Service cables with concentric neutral conductor
- 96
- 97 Each of Parts 3 to 10 inclusive contains a number of Sections, and the Technical Board has agreed (D68/047,
- Brussels, June 1991) that National Committees need at present only implement in their national language those 98
- Sections having national applicability. The obligation remains however to announce the full HD in public by titles 99
- 100 and numbers, and also to withdraw any conflicting national standards.
- 101 Page numbering reflects the arrangement into Parts and Particular sections, e.g. Page 5-D-6 is Page 6 of
- Particular Section D of Part 5. 102

#### 103 **CONTENTS (prHD 626 S2:2020)**

- PART 0 CONTENTS OF HD 626
- **PART 1 GENERAL REQUIREMENTS**
- PART 2 ADDITIONAL TEST METHODS
- PART 3 FED SELF SUPPORTING CABLES (bundle assembled cores)
  - 3 A sembled cores for overhead distribution and service (Type 3A-1) (Cables with aluminium conductors)
  - 3 C n
  - 3 I ssembled cores for overhead service (Type 3 I-1) (Cables with aluminium conductors)
  - 3 L ssembled cores for overhead distribution and service (Type 3L-1) (Cables with aluminium conductors)

# PART 4 LATED SELF SUPPORTING CABLES

(bundle assembled cores)

Part 1

```
4 B sembled cores for overhead service (Types 4B-1 and 4B-2)
             (Cables with aluminium conductors (Type 4B-1) or with copper conductors (Type 4B-2))
    4 E sembled cores for overhead service (Type 4E-1)
             (Cables with aluminium conductors)
    4 F sembled cores for overhead distribution and service (Type 4F-1)
             (Cables with aluminium conductors)
    4 G 'n
    4 J 3 sembled cores for overhead service (Types 4J-1 and 4J-2)
             (Cables with aluminium conductors (Type 4J-1) or with copper conductors (Type 4J-2))
    4 K sembled cores for overhead service (Type 4K 1)
             (Cables with aluminium conductors)
    4 M sembled cores for overhead distribution and service (Type 4M-1)
             (Cables with aluminium conductors)
    4 N seembled cores for overhead distribution (Type 4N-1)
             (Cables with aluminium conductors)
    4 O overhead distribution cables of rated voltage Uo/U(Um): 0,6/1 (1,2) kV
    4 P sembled cores for overhead distribution and service (Type 4P-1 and Type 4P-2)
PART 5 FED CABLES WITH MESSENGER
         (bundle assembled cores)
    5 D sembled cores for overhead distribution and service (Type 5D-1)
             (Cables with aluminium phase conductors and uninsulated aluminium alloy neutral
             conductor)
                                 (standards.iteh.ai)
     5 \mid n
PART 6 LATED CABLES WITH MESSENGER or HD 626 S2:2020
          (bundle assembled cores) ai/catalog/standards/sist/742903ea-7571-4991-ad06-
                        assembled 43a9d cores sist-prod-626-s overhead
                                                                         distribution
                                                                                         (Type 6B-1)
    6 B
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
             Withdrawn
    6 D
             Bundle
                        assembled
                                        cores
                                                   for
                                                           overhead
                                                                         distribution
                                                                                         (Type 6E-1)
    6 E
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
             Bundle
                         assembled
                                        cores
                                                   for
                                                           overhead
                                                                         distribution
                                                                                         (Type 6J-1)
    6 J
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
             Bundle
                         assembled
                                                           overhead
                                                                         distribution
                                                                                         (Type 6K-1)
                                        cores
                                                   for
    6 K
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
             Bundle
                        assembled
                                                          overhead
                                                                         distribution
                                        cores
                                                   for
                                                                                         (Type 6N-1)
    6 N
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
PART 7 .ATED AND SHEATHED SELF SUPPORTING CABLES
          (bundle assembled cores)
    7 H seembled cores for overhead distribution and service (type 7H), Self-supporting XLPE insulated
             (Cables with tinned copper phase conductors and tinned copper neutral conductor)
PART 8 LATED AND SHEATHED CABLES WITH MESSENGER
         (bundle assembled cores)
    8 H seembled cores for overhead distribution and service (type 8H), Neutral conductor messenger
             XLPE insulated cables
             (Cables with aluminium phase conductors and aluminium alloy neutral conductor)
```

PART 9 Single core cables

#### Part 1

9 F	Withdrawn
9 G	Withdrawn
9 I	Withdrawn
9 N	Single cores for overhead distribution (Type 9N-1 and Type 9N-2) (EPR insulated and PCP sheath cables with aluminium conductors Type 9N-1 or with copper conductors Type 9N-2)

#### PART 10 Service cables with concentric neutral conductor

10 N re and three cores service cables with concentric neutral conductor (Type 10N)

(Cables with tinned copper phase conductors and tinned copper concentric neutral conductor)

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#### 104 **1 Scope**

#### 105 **1.1 General**

- This document applies to cables of rated voltage  $U_0/U(U_m) = 0.6/1(1.2)$  kV used in overhead power distribution
- 107 systems mainly for public distribution, of maximum system voltage not exceeding 1,2 kV.
- 108 This part (Part 1) specifies the general requirements applicable to these cables, unless otherwise specified in
- the particular sections of this HD.
- 110 Test methods are specified in EN 60228, EN 60332-1 series, EN 60811 series and in HD 605 or in Part 2 of this
- HD. The particular types of cables are specified in Parts 3 to 10.

#### 112 **1.2 Object**

- 113 The objects of this document are:
- 114 to standardize cables that are safe and reliable when properly used and equipped with appropriate
- accessories, in relation to the technical requirements of the system of which they form a part,
- 116 to state the characteristics and manufacturing requirements which have a direct or indirect bearing on
- 117 safety,
- 118 and to specify methods for checking conformity with those requirements.

#### 119 2 Normative references

### iTeh STANDARD PREVIEW

- 120 The following documents are referred to in the text in such a way that some or all of their content constitutes
- requirements 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.
- HD 186, Marking by inscription for the identification of cores of electric cables having more than 5 cores https://standards.iteh.ai/catalog/standards/sist/742903ea-7571-4991-ad06-
- EN 60228, Conductors of insulated cables and 43a9df4ac4/osist-prhd-626-s2-2020
- 125 HD 60364-5-52:2011, Low-voltage electrical installations Part 5-52: Selection and erection of electrical
- 126 equipment Wiring systems (IEC 60364-5-52:2009)
- 127 HD 605 S3:2019, Electric cables Additional test methods
- 128 IEC 60287 series, Electric cables Calculation of the current rating

#### 129 3 Terms and definitions

- For the purposes of this document, the following terms and definitions apply.
- 131 ISO and IEC maintain terminological databases for use in standardization at the following addresses:
- 132 ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- 133 IEC Electropedia: available at http://www.electropedia.org/

#### 134 3.1 Definitions relating to insulating and sheathing materials

- 135 **3.1.1**
- 136 insulating and sheathing materials
- 137 types of insulating and sheathing compounds covered in this document are listed below, together with their
- 138 abbreviated designations
- Note 1 to entry: See Table 1.

Part 1

140 Table 1

	Insulating and Sheathing Compounds	See:				
Insulating and insulating sheath (a)	a) <i>Thermoplastic</i> Insulating compounds based on: (PE) - Polyethylene	Table 2				
	b) Cross linked Insulating compound based on: (XLPE) - Cross linked polyethylene	Table 3				
	c) <i>Elastomeric</i> Insulating compound based on: (EPR) - Ethylene propylene rubber	Table 5				
2. Sheath	a) Cross linked Sheathing compound based on: (XLPE) - Cross linked polyethylene	Table 4				
	b) <i>Thermoplastic</i> Sheathing compound based on: (PVC) - Polyvinyl chloride					
	c) Elastomeric Sheathing compound based on: (PCP, - Polychloroprene, chlorosulfonated CSP) polyethylene or similar polymer	Table 6				
a An insulating sheath is an extruded layer which simultaneously acts as an insulation and as a sheath						

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141 3.1.2

142 type of compound

143 category in which a compound is classified according to its properties is determined by specific tests; the type

144 designation is not directly related to the composition of the compound

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#### **Definitions relating to the tests**

- 146 3.2.1
- type tests 147
- 148 Т

- 149 tests required to be made before supplying a type of cable covered by this HD on a general commercial basis
- in order to demonstrate satisfactory performance characteristics to meet the intended application 150
- 151 Note 1 to entry: These tests are of such a nature that, after they have been made, they need not be repeated unless
- 152 changes are made in the cable material, design or type of manufacturing process which might change the performance
- characteristics 153
- 154 3.2.2
- 155 sample tests
- 156 S
- tests made on samples of completed cable, or components taken from a completed cable adequate to verify 157
- that the finished product meets the design specifications 158
- 159 3.2.3
- 160 routine tests
- 161
- tests made on all production cable lengths to demonstrate their integrity 162

- 163 3.2.4
- 164 tests after installation
- 165 tests intended to demonstrate the integrity of the cable and its accessories as installed
- 166 Tests classified as sample(S) or routine (R) could be required as part of type approval schemes.
- 167 3.3
- 168 rated voltage
- 169 <of a cable> reference voltage for which the cable is designed, and which serves to define the electrical tests
- Note 1 to entry: The rated voltage is expressed by the combination of the following values  $U_0 / U(U_{rn})$  expressed in kV. 170
- 171 Un is the rms. value between any insulated conductor and earth;
- $U_0 = 0.6 \text{ kV}$ 172
- 173 U is the rms. value between any two phase-conductors of a multicore cable;
- 174  $U = 1.0 \, kV$
- 175 Urn is the rms. value of the highest system voltage for which the equipment may be used;
- 176  $U_{rn} = 1,2 \text{ kV}.$
- Note 2 to entry: In an alternating current system, the rated voltage of a cable shall be at least equal to the nominal voltage of the system for which it is intended. 177
- of the system for which it is intended. 178
- Note 3 to entryThe cables of this HD may be used in DC Systems with a maximum voltage against earth not exceeding 179
- 180 0,9 kV.

oSIST prHD 626 S2:2020

- https://standards.iteh.ai/catalog/standards/sist/742903ea-7571-4991-ad06-181 3.3 Other 2143a9df4ac4/osist-prhd-626-s2-2020
- 182 3.3.1
- 183 messenger
- wire or a rope, the primary function of which is to support the cable in aerial installation, which may be separate 184
- 185 from or integral with the cable it supports
- 186 Note 1 to entry: In this HD, the messenger is called in some sections "neutral core" and even "messenger neutral core"
- 187 [IEV 461-08-03]
- Marking 188
- Indication of origin 189
- 190 4.1.1 General
- 191 Cables shall be provided with an indication of origin consisting of:
- Either the manufacturer's identification thread, 192
- or the continuous marking of the manufacturer's name or trademark, or (if legally protected) 193 194 identification number by one of the two following alternative methods:
- 195 printed tape within the cable,
- 196 printing, indenting or embossing on the outer surface of at least one core.

Part 1

197

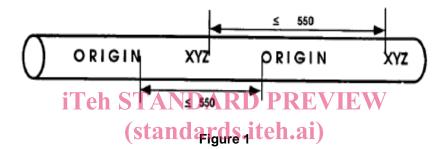
202

209

210

#### 4.1.2 Continuity of Marks

- Unless otherwise specified in the particular sections, each specified mark shall be regarded as continuous if the distance between the end of the mark and the beginning of the next identical mark does not exceed:
- 550 mm if the marking is on the outer surface of the cable
- 201 275 mm if the marking is:
  - on the insulation of a sheathed cable
- or on a tape within a sheathed cable.
- NOTE A "Specific Mark" is any mandatory mark covered by this Part of the HD or by the particular requirements of Part 3 onwards of this HD.
- The diagram below shows an example of the marking as use on the outer surface of the cable, where the word 'ORIGIN' is for the mandatory information required by the subclause 3.1, and "XYZ" is one of any other mandatory marks.



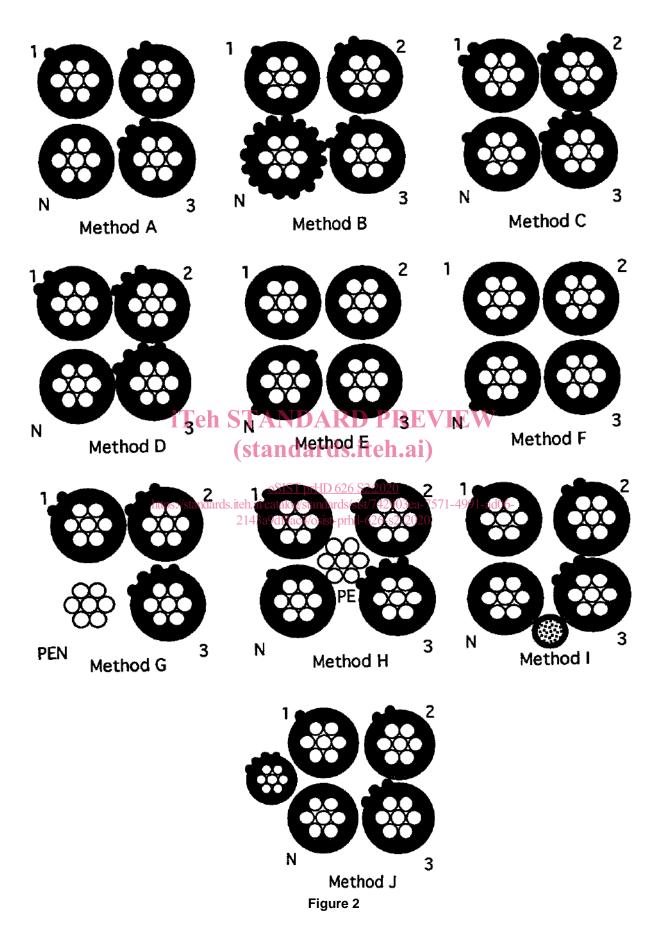
211 **4.2 Additional Marking** 

oSIST prHD 626 S2:2020

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- 212 Additional marking requirements may be specified in the particular sections.
- 213 4.3 Durability
- 214 Printed markings shall be durable. Durability shall be checked by the test given in HD 605 S3:2019, 2.5.4. The
- 215 printed legend shall be legible after carrying out the test.
- 216 **4.4 Legibility**
- 217 All markings shall be legible. Printed markings shall be in contrasting colours. The colours of the identification
- 218 threads shall be easy to recognize or easily be made recognizable, if necessary, by cleaning with a suitable
- solvent. The printed legend shall be legible after carrying out the test.
- 220 4.5 Common marking
- 221 Under consideration.
- 222 4.6 Use of the name CENELEC
- The name CENELEC, in full or abbreviated, shall not be marked directly on, or in, the cables.
  - 5 Core identification
- 225 The cores shall be identified by ribs (examples of the code method is given hereafter) or by numbers (printing,
- 226 indenting or embossing on the outer surface of the core), or both of them. For a two cores cable, this core
- 227 identification is valid too.

Part 1



228

#### Part 1

- The colour or numbering or coding schemes relevant to the various types of cables are given in the particular
- 231 sections of this HD.
- When identification is made by numbers, they shall be printed in a colour which contrasts with the core colour.
- 233 Marking shall comply with HD 186 unless otherwise specified.
- 234 The colours or numbers shall be clearly identifiable and durable. Durability shall be checked by the test specified
- 235 in HD 605 S3:2019, 2.5.4.
- 236 Compliance with these requirements shall be verified by visual examination.

### 237 6 General requirements for the construction of cables

#### 238 **6.1 General**

- 239 Compliance with the requirements given in subclauses 6.2 to 6.5 and in the particular sections of this document
- shall be checked by inspection and by measurements according to the test methods in documents listed in the
- Scope of the HD 626 S2:2020, Part 1, Subclause 1.1. or in particular sections.

#### 242 6.2 Conductors

#### 243 **6.2.1 Material**

- 244 Conductors shall be either of plain or metal-coated hard-drawn copper or of aluminium or aluminium alloy in
- 245 accordance with EN 60228 or with particular requirements in particular sections of this HD.
- 246 Conductors shall be circular and stranded or shall comply with particular requirements in particular sections of

II EN STANDAKD PKEVIEV

247 this HD.

# 248 6.2.2 Electrical resistance (standards.iteh.ai)

- 249 The resistance of each conductor at 20°C shall be in accordance with the requirements in EN 60228 for the
- 250 given class of conductor or with particular requirements in particular sections of this HD.
- 251 6.2.3 Separator tape
- 2143a9df4ac4/osist-prhd-626-s2-2020
- 252 A separator tape may be placed between the conductor and the insulation.
- 253 It shall be easily removable from the conductor.

#### 254 6.3 Insulation or insulating sheath

#### 255 **6.3.1 Material**

- 256 Insulation shall be extruded solid compound of one of the types listed in 3.1.1 and as given for each type of
- cable in the particular sections of HD 626.
- Test requirements for the insulating compounds are specified in Tables 2, 3 and 5.

#### 259 **6.3.2** Application

- The insulation may consist of one or more bonded layers. It shall be so applied that it fits closely on the conductor
- or over the separator tape, and it shall be possible to remove it without damage to the conductor or to the metal
- coating if any. The insulation shall be applied by a suitable extrusion process, and shall form a compact and
- 263 homogeneous body.

#### 264 6.3.3 Colour of the insulation

- The colour of the insulation or of the insulating sheath shall be black, grey or another colour according to the
- 266 particular sections.