SLOVENSKI STANDARD
oSIST prEN IEC 63248:2021/oprAA:2021

01-julij-2021

Vodniki za nadzemne vode - Prevlečena ali prekrita kovinska žica za koncentrično pletene vodnike

Conductors for overhead lines - Coated or cladded metallic wire for concentric lay stranded conductors

Conducteurs pour lignes aériennes - Fil métallique revêtu ou recouvert pour conducteurs toronnés à couches concentriques

Ta slovenski standard je istoveten z: **prEN IEC 63248:2021/prAA**

ICS:

29.240.20	Daljnovodi	Power transmission and distribution lines

oSIST prEN IEC 63248:2021/oprAA:2021 en,fr,de

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN IEC 63248

prAA

April 2021

ICS

English Version

Conductors for overhead lines - Coated or cladded metallic wire for concentric lay stranded conductors

Conducteurs pour lignes aériennes - Fil métallique revêtu ou recouvert pour conducteurs toronnés à couches concentriques

To be completed

This draft amendment prAA, if approved, will modify the European Standard prEN IEC 63248; it is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2021-07-23.

It has been drawn up by CLC/TC 7X.

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

This draft amendment 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.

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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.

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CENELEC

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

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Project: 70813 Ref. No. prEN IEC 63248:2021/prAA E

European foreword

This document (prEN IEC 63248:2021/prAA:2021) has been prepared by CLC/TC 7X “Overhead electrical conductors”.

This document is currently submitted to the Enquiry.

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)

1 Modifications to Table A.1, "Wire Designation"

Add the designations "ST3D, ST4A, ST5E" *to Table A.1 as follows:*

Add "D, E" *to footnote* e *to Table A.1 as follows:*

Group	Designation	Wire designation
Group 1 [e,f] Zinc-coated steel wires	S1A	Zinc-coated steel S1A
	ST1A	Zinc-coated steel ST1A
	ST3D	Zinc-coated steel ST3D
	ST4A	Zinc-coated steel ST4D
	S2A	Zinc-coated steel S2A
	ST5E	Zinc-coated steel ST5E
	S3A	Zinc-coated steel S3A
[e] For Group 1, Group 4 and Group 5 the last letter (A, B, C, D, E) refers to the coating class.		

2 Modification to Table A.4, "Requirements for zinc and zinc-aluminium alloy coated steel wires (group 1, group 4 and group 5)"

Add the designations "ST3D, ST4A, ST5E" *to Table A.4 in the same sequence as given in Table A.1 (see Modification 1):*

Nominal Diameter, mm		Diameter tolerance, mm	Min. stress at 1 % extension, MPa	Min. ultimate tensile stress, MPa	Min. lot average tensile stress a MPa	Min. elongation after break, %	Ratio of mandrel diameter to wire diameter for ductility wrapping test –-	Ratio of mandrel diameter to wire diameter for coating adherence test –-	Min. number of torsions –-
Over –-	Up to and including –-								
ST3D									
1,24	1,50	±0,05	1 210	1 500		4,0	2	4	16
1,50	1,75	±0,07	1 210	1 500		4,0	2	4	16
1,75	2,25	±0,08	1 210	1 500		4,0	2	4	16
2,25	2,75	±0,10	1 210	1 500		4,0	3	4	16
2,75	3,00	±0,12	1 210	1 500		4,0	3	4	16
3,00	3,50	±0,13	1 100	1 400		4,0	3	4	16
3,50	4,25	±0,13	1 100	1 400		4,0	3	5	14
4,25	4,75	±0,13	1 100	1 400		4,0	3	5	14
4,75	5,50	±0,13	1 100	1 400		4,0	3	5	14
ST4A									
1,24	1,50	±0,03	1 275	1 670		3,5	2	4	12
1,50	1,75	±0,03	1 275	1 670		3,5	2	4	12
1,75	2,25	±0,03	1 275	1 670		3,5	2	4	12

Nominal Diameter, mm		Diameter tolerance, mm	Min. stress at 1 % extension, MPa	Min. ultimate tensile stress, MPa	Min. lot average tensile stress a MPa	Min. elongation after break, %	Ratio of mandrel diameter to wire diameter for ductility wrapping test –-	Ratio of mandrel diameter to wire diameter for coating adherence test –-	Min. number of torsions –-
Over –-	Up to and including –-								
2,25	2,75	±0,04	1 275	1 670		4,0	3	4	12
2,75	3,00	±0,05	1 275	1 670		4,0	3	4	12
3,00	3,50	±0,05	1 225	1 620		4,0	3	4	12
3,50	4,25	±0,06	1 225	1 620		4,0	3	5	12
4,25	4,75	±0,06	1 225	1 620		4,0	3	5	12
4,75	5,50	±0,07	1 225	1 620		4,0	3	5	12
ST5E									
1,24	1,75	±0,03	1 420	1 620		3,5	4	4	
1,75	2,30	±0,04	1 420	1 620		3,5	4	4	
2,30	2,55	±0,04	1 370	1 620		4,0	4	4	
2,55	2,75	±0,04	1 370	1 670		4,0	4	4	
2,75	3,50	±0,05	1 370	1 670		4,0	4	4	
3,50	4,75	±0,06	1 370	1 670		4,0	5	5	
4,75	5,50	±0,07	1 370	1 670		4,0	5	5	

3 Modification to Table A.7, "Initial setting for determining stress at 1 % extension"

Add the designations "ST3D, ST4A, ST5E" *to Table A.7 as follows:*

Nominal Diameter, mm		Initial stress, MPa	Initial setting of extensometer, %
Over	Up to and including		
Zinc and Zinc aluminium alloy wires (group 1, group 4, group 5) Designations: S1 – S2 – S3 – ST1A –ST3D – ST4A – ST5E – ST6C			
1,24	2,25	100	0,05
2,25	3,00	200	0,10

4 Modification to Table A.8, "Coating requirements for zinc and zinc-aluminium alloy coated wires"

Add the designations "ST3D, ST4A, ST5E" *to Table A.8 as follows:*

Min. mass of coating, g/m^2					
Group 1 Zinc coated wire					
Diameter, mm		Class A ST4A	ST6C	ST3D	ST5E
Over	Up to and including				
1,24	1,50	185	150	365	185
1,50	1,75	200	160	460	200
1,75	2,25	215	175	550	215
2,25	3,00	230	190	640	250
3,00	3,50	245	205	730	250
3,50	4,25	260	260	730	260
4,25	4,75	275	275	775	275
4,75	5,50	290	290	825	290

5 Modification to Table A.12, "Minimum number of dips for Zn and Zn Alloy coatings (group 1, group 4, group 5)"

Add the designations "ST3D, ST4A, ST5E" *to Table A.12 as follows:*

Diameter, mm		Class A, ST4A, 5MS1B Number of dips		ST3D Number of dips		ST5E Number of dips		ST6C Number of dips	
Over	Up to and including	of 1 min[a]	of 1/2 min[b]	of 1 min[a]	of 1/2 min[b]	of 1 min[a]	of 1/2 min[b]	of 1 min[a]	of 1/2 min[b]
1,24	1,75	2	-	3	1	2	-	1	1
1,75	2,00	2	1	4	-	2	1	2	-
2,00	2,25	2	1	4	-	3	1	2	-
2,25	3,00	3	-	5	-	3	1	2	1
3,00	3,50	3	1	6	-	3	1	3	-
3,50	4,25	3	1	6	-	3	1	3	1
4,25	4,75	4	-	6	-	4	-	4	-
4,75	5,50	4	-	6	-	4	-	4	-

[a] for zinc-aluminium alloy coatings one dip equals 45 s instead of 1 min

[b] for zinc-aluminium alloy coatings one dip equals 22 s instead of 1/2 min