

<b>STN</b>	<b>Olejom plnené pripájacie káblové súbory pre transformátory a tlmivky s najvyšším napätím pre zariadenie Um od 72,5 kV do 550 kV. Časť 1: Káblové koncovky plnené kvapalinou.</b>	<b>STN EN 50299-1</b>  35 1455
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Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment Um from 72,5 kV to 550 kV - Part 1: Fluid-filled cable terminations

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/15

Obsahuje: EN 50299-1:2014

Spolu s STN EN 50299-2 od 13.10.2017 ruší  
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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2015  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English Version

## Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment $U_m$ from 72,5 kV to 550 kV - Part 1: Fluid-filled cable terminations

Boîte de raccordement de câble pour transformateurs immergés et bobine d'inductance de tensions comprises entre 72,5 kV et 550 kV - Partie 1: Extrémité de câble remplie d'un fluide

Ölgefüllte Kabelanschlusseinheiten für Transformatoren und Drosselspulen mit einer höchsten Spannung für Betriebsmittel  $U_m$  von 72,5 kV bis 550 kV - Teil 1: Flüssigkeitsgefüllte Kabelendverschlüsse

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

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## Foreword

This document (EN 50299-1:2014) has been prepared by CLC/TC 14 "Power transformers".

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) 2015-10-13
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-10-13

This document partially supersedes EN 50299:2002, together with EN 50299-2:2014. Changes have been made in this document to bring it line with EN 50299-2:2014.

Dimensions mentioned in EN 50299-1 are valid for fluid-filled cable terminations. Dry-type cable terminations may also fit to these requirements.

A new standard EN 50299-2 is issued which describes requirements for dry-type cable terminations only.

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.

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## 1 Scope

This European Standard covers the oil-immersed single-phase connection assembly of cables for transformers and reactors, designed in accordance with EN 60076 series.

NOTE In the standard the term "transformer" is used as common definition for transformer and reactor.

The purpose of EN 50299-1 is to establish for the cable assemblies:

- the electrical and mechanical requirements, including interchangeability;
- the limits of supply;
- the test to be carried out.

It complements and amends, if necessary, the relevant IEC standards and applies to oil immersed cable connections, suitable for fluid-filled or dry-type cable terminations.

EN 50299-1 does not cover direct cable terminations (see 3.1.1.3), but, in this case, upon agreement between purchaser and supplier, the standard may be used for guidance except for Figure 1 and Figure 2 which are not applicable.

This standard applies to oil-immersed cable connection boxes on transformers with highest voltage for equipment  $U_m = 72,5 \text{ kV}$  to  $550 \text{ kV}$ , including the current conductor terminal at the cable sealing end of the transformer.

## 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 60076 Series	<i>Power transformers (IEC 60076 Series)</i>
EN 60296	<i>Fluids for electrotechnical applications — Unused mineral insulating oils for transformers and switchgear (IEC 60296)</i>
EN ISO 1302	<i>Geometrical product specifications (GPS) — Indication of surface texture in technical product documentation (ISO 1302)</i>
IEC 60141 Series	<i>Tests on oil-filled and gas-pressure cables and their accessories</i>
IEC 60840	<i>Power cables with extruded insulation and their accessories for rated voltages above 30 kV (<math>U_m = 36 \text{ kV}</math>) up to 150 kV (<math>U_m = 170 \text{ kV}</math>) — Test methods and requirements</i>
IEC 62067	<i>Power cables with extruded insulation and their accessories for rated voltages above 150 kV (<math>U_m = 170 \text{ kV}</math>) up to 500 kV (<math>U_m = 550 \text{ kV}</math>) — Test methods and requirements</i>
HD 632 S2	<i>Power cables with extruded insulation and their accessories for rated voltages above 36 kV (<math>U_m = 42 \text{ kV}</math>) up to 150 kV (<math>U_m = 170 \text{ kV}</math>)</i>

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**