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Kraftkablar – PEX-isolerad kabel och tillbehör med märkspänning 30/52 kV till 98/170 kV – Provning

Power cables –

XLPE-insulated cables and their accessories for rated voltages 30/52 kV to 98/170 kV –

Specifications for testing

Som svensk standard för provning av kraftkablar och tillbehör med märkspänning 30/52 kV till 98/170 kV gäller följande av CENELEC utarbetade HD-dokument:

HD 632 S2:2008 Power cables with extruded insulation and their accessories for rated voltages above 36 kV ($U_m = 42$ kV) up to 150 kV ($U_m = 170$ kV), part 1, part 3 section M, part 4 section M and part 5 section M.

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Följande delar av CENELEC HD 632 S2 ingår i denna standard.

- Part 1 General test requirements
- Part 3 Test requirements for cables with XLPE insulation and metallic screen and their accessories
 - 3-M Cables with XLPE insulation, copper screen and their accessories
- Part 4 Test requirements for cables with XLPE insulation, metallic screen and metal-laminated sheath and their accessories
 - 4-M Cables with XLPE insulation, copper screen and aluminium-laminated sheath and their accessories
- Part 5 Test requirements for cables with XLPE insulation and metallic sheath and their accessories
 - 5-M Cables with XLPE insulation and metallic sheath and their accessories

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POWER CABLES WITH EXTRUDED INSULATION AND THEIR ACCESSORIES FOR RATED VOLTAGES ABOVE 36 kV ($U_m = 42$ kV) UP TO 150 kV ($U_m = 170$ kV) – TEST METHODS AND REQUIREMENTS

1 Scope

This standard specifies test requirements for power cables with extruded insulation, of the types listed in Table 1, and their accessories, of rated voltage, U , above 36 kV ($U_m = 42$ kV) up to and including 150 kV ($U_m = 170$ kV), for fixed installations intended for transmission and distribution systems, and for use in power generating plants and sub-stations.

Depending on the design and the system conditions, additional or even fewer tests or other requirements which are not described in the Part 1 can be specified in the particular sections of Parts 3 to 11.

In these parts each section is either:

- 1) A full tabulation showing how the particular section either agrees, or deviates from, each clause of Part 1; or
- 2) A reduced tabulation showing only those places where the particular section deviates from Part 1.

The requirements apply to single-core cables and three-core cables with separate cores and to their accessories for usual conditions of installation and operation, but not to special cables and their accessories, such as those designed for submarine cables, for which modification to the standard tests may be necessary or special test conditions may need to be devised.

This standard does not cover transition joints between cables with extruded insulation and paper insulated cables.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 60228	Conductors of insulated cables (IEC 60228)
EN 60229	Tests on cable oversheaths which have a special protective function and are applied by extrusion (IEC 60229)
EN 60230	Impulse tests on cables and their accessories (IEC 60230)
EN 60332-1-2	Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2)
EN 60811 (Series)	Insulating and sheathing materials of electric and optical fibre cables – Common test methods (IEC 60811 Series)
EN 60885 (Series)	Electrical test methods for electric cables (IEC 60885 Series)