

Jahresbericht 2021

TK 20, Elektrische Kabel

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Das TK20 traf sich im Berichtszeitraum zu 2 Sitzungen, um Normenentwürfe und -revisionen zu behandeln. Pandemiebedingt wurden diese Sitzungen als virtuelle Meetings durchgeführt. Darüber hinaus fand eine rege E-Mail-Kommunikation statt und das TK 20 hat sich bei zahlreichen Vernehmlassungen und Abstimmungen eingebracht.

Es wurden im Berichtsjahr folgende Normen im Schweizer TK 20 behandelt:

- HD 604 S2: 0,6/1,0 kV power cables with special fire performance for use in power stations and similar installations
- HD 629: Test requirements for accessories for use on power cables of rated voltage from 3,6/6(7,2) kV up to 20,8/36(42) kV
- EN 50214: Flat flexible cables (previous title: Flat polyvinyl chloride sheathed flexible cables)
- EN 50397: Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV AC and not exceeding 36 kV AC
- EN 50399: Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test
- EN 50525-1: Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U_o/U) – Part 1
- EN 50576: Electric cables - Extended application of test results for reaction to fire
- EN 50620: Electric cables - Charging cables for electric vehicles
- EN 50626: Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables
- IEC 60092: Electrical installations in ships
- IEC 60227: Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V
- IEC 60228: Conductors of insulated cables
- IEC/EN 60230: Impulse tests on cables and their accessories
- IEC 60287: Electric cables - Calculation of the current rating
- IEC 60331-4: Tests for electric cables under fire conditions - Circuit integrity - Part 4
- IEC 60364-5-52: Low-voltage electrical installations – Part 5-52
- IEC 60502: Power cables with extruded insulation and their accessories for rated voltages from 1 kV (U_m = 1,2 kV) up to 30 kV (U_m = 36 kV)

- IEC 60800: Heating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation
- IEC 60840: Power cables with extruded insulation and their accessories for rated voltages above 30 kV ($U_m = 36$ kV) up to 150 kV ($U_m = 170$ kV) - Test methods and requirements
- IEC/EN 61084: Cable trunking systems and cable ducting systems for electrical installations
- IEC 61422: Test methods for accessories for power cables with rated voltage from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV)
- IEC/EN 61914: Cable cleats for electrical installations
- IEC 62067: Power cables with extruded insulation and their accessories for rated voltages above 150 kV ($U_m = 170$ kV) up to 500 kV ($U_m = 550$ kV)
- IEC 62893: Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV
- IEC 63294: Test methods for electric cables with rated voltages up to and including 450/750 V
- TR 50659: Cable management systems (CMS) providing support for cables with intrinsic fire resistance

Über mehrere Experten hat sich das TK 20 auch im vergangenen Jahr aktiv in die Normierungsarbeit in internationalen Workgroups eingebracht. Zudem war das TK 20 an den jährlichen Plenarsitzungen des CENELEC TC 20 sowie des IEC TC 20 vertreten, welche als Web-Konferenzen stattgefunden haben.

(A.A.)