

## Jahresbericht 2019

# TK 20, Elektrische Kabel

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Das TK 20 traf sich im Berichtszeitraum zu zwei Sitzungen, um Normenentwürfe und -revisionen zu behandeln. Ergänzt wurde dies durch ausserordentliche Sitzungen einzelner Expertenteams zur Bearbeitung ausgewählter Normen. Darüber hinaus fand eine rege E-Mail-Kommunikation statt. Es wurden im Jahr 2019 folgende Normen im Schweizer TK 20 behandelt:

- HD 361 S4: System for cable designation
- HD 605 S3: Electric cables - Additional test methods
- HD 620: Distribution cables with extruded insulation for rated voltages from 3,6/6 (7,2) kV up to and including 20,8/36 (42) kV
- HD 629-1 S3: Test requirements on accessories for use on power cables of rated voltage from 3,6/6(7,2) kV up to 20,8/36(42) kV - Part 1: Cables with extruded insulation
- EN 50305: Railway applications - Railway rolling stock cables having special fire performance
- EN 50306: Railway applications - Railway rolling stock cables having special fire performance - Thin wall
- 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<sub>o</sub>/U) – Part 1
- EN 50620: Electric cables - Charging cables for electric vehicles
- IEC//EN 60230: Impulse tests on cables and their accessories
- IEC 60331: Tests for electric cables under fire conditions - Circuit integrity - Parts 1 - 4
- IEC 60332-3: Tests on electric and optical fibre cables under fire conditions – Parts 10, 21 – 25
- IEC 60502-1: Power cables with extruded insulation and their accessories for rated voltages from 1 kV (U<sub>m</sub> = 1,2 kV) up to 30 kV (U<sub>m</sub> = 36 kV) - Part 1
- IEC 60754: Test on gases evolved during combustion of materials from cables – Parts 1 and 2
- IEC 60840: Power cables with extruded insulation and their accessories for rated voltages above 30 kV (U<sub>m</sub> = 36 kV) up to 150 kV (U<sub>m</sub> = 170 kV) - Test methods and requirements
- IEC 60885-2: Electrical test methods for electric cables - Part 2

- IEC 61034: Measurement of smoke density of cables burning under defined conditions – Parts 1 and 2
- IEC 61238-1: Compression and mechanical connectors for power cables - Parts 1-3:
- IEC 62125: Environmental considerations specific to insulated electrical power and control cables
- IEC 62893: Charging cables for electric vehicles - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1
- IEC 63026: Submarine power cables with extruded insulation and their accessories for rated voltages from 6 kV ( $U_m = 7,2$  kV) up to 60 kV ( $U_m = 72,5$  kV)
- IEC 63075: Superconducting AC power cables and their accessories for rated voltages from 6 kV to 500 kV

Im Laufe des Berichtszeitraums 2019 hat sich das TK 20 an der Abstimmung und Kommentierung zu 38 verschiedenen Dokumenten beteiligt.

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 der jährlichen Plenarsitzung des TC 20 vertreten.

(A. A.)