Deutsche Akkreditierungsstelle GmbH

# Annex to the Accreditation Certificate D-PL-12148-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** **13.07.2022**

Date of issue: 14.07.2022

Holder of certificate:

**HARTING Stiftung & Co. KG**
**Marienwerder Straße 3, 32339 Espelkamp**

At location:

**HARTING Stiftung & Co. KG**
**Corporate Technology Services (CTS)**
**Marienwerder Straße 3, 32339 Espelkamp**

Tests in the fields:

**Electrical, mechanical and environmental tests,**
**EMC- and SI- tests of electromechanical components and tests of fibre optical components,**
**also 1-, 2- and 3-dimensional measurements of lengths**

**Applies to all areas except the geometrical measurements technology:**

**The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.**

**The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation**

*The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with the annex reflects the status as indicated by the date of issue.*
*The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de/en/content/accredited-bodies-dakks.*

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| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| **1. Electrical engineering** | | | |
| **1.1. Basic standards** | | | |
| Electrical engineering | DIN ISO 1431-1 (2017-04) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing (ISO 1431-1:2012) | |
| Electrical engineering | ISO 1431-1 (2012-08) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing | |
| Electrical engineering | DIN EN ISO 3497 (2001-12) | Metallic coatings - Measurement of coating thickness - X-ray spectrometric methods (ISO 3497:2000) | |
| Electrical engineering | DIN EN ISO 4892-1 (2016-10) | Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 4892-1:2016) | |
| Electrical engineering | DIN EN ISO 4892-2 (2013-06) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 4892-2:2013) | |
| Electrical engineering | ISO 4892-2 (2013-03) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps | |
| Electrical engineering | DIN EN ISO 6270-2 (2018-04) | Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) (ISO 6270-2:2017) | |
| Electrical engineering | ISO 6270-2 (2017-11) | Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN ISO 9227 (2017-07) | Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017) | no AASS & CASS tests |
| Electrical engineering | ISO 9227 (2017-03) | Corrosion tests in artificial atmospheres - Salt spray tests | |
| Electrical engineering | DIN EN 60512-1-1 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination; Test 1a: Visual examination (IEC 60512-1-1:2002) | |
| Electrical engineering | IEC 60512-1-1 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination; Test 1a: Visual examination | |
| Electrical engineering | DIN EN 60512-1-2 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination; Test 1b: Examination of dimension and mass (IEC 60512-1-2:2002) | |
| Electrical engineering | IEC 60512-1-2 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination; Test 1b: Examination of dimension and mass | |
| Electrical engineering | DIN EN 60512-1-3 (1998-02) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination; Section 3: Test 1c: Electrical engagement length (IEC 60512-1-3:1997) | |
| Electrical engineering | IEC 60512-1-3 (1997-07) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-1-4 (1998-02) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General; Section 4: Test 1d: Contact protection effectiveness (scoop-proof) (IEC 60512-1-4:1997) | |
| Electrical engineering | IEC 60512-1-4 (1997-08) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof) | |
| Electrical engineering | DIN EN 60512-2-1 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests; Test 2a: Contact resistance; Millivolt level method (IEC 60512-2-1:2002) | |
| Electrical engineering | IEC 60512-2-1 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests; Test 2a: Contact resistance - Millivolt level method | |
| Electrical engineering | DIN EN 60512-2-2 (2004-01) | Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method (IEC 60512-2-2:2003) | |
| Electrical engineering | IEC 60512-2-2 (2003-05) | Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests; Test 2b: Contact resistance; Specified test current method | |

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|---|---|---|---|
| Electrical engineering | DIN EN 60512-2-3 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 2-3: Electrical continuity and contact resistance tests; Test 2c: Contact resistance variation (IEC 60512-2-3:2002) | |
| Electrical engineering | IEC 60512-2-3 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 2-3: Electrical continuity and contact resistance tests; Test 2c: Contact resistance variation | |
| Electrical engineering | DIN EN 60512-2-5 (2004-01) | Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance (IEC 60512-2-5:2003) | |
| Electrical engineering | IEC 60512-2-5 (2003-05) | Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests; Test 2e: Contact disturbance | |
| Electrical engineering | DIN EN 60512-2-6 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 2-6: Electrical continuity and contact resistance tests; Test 2f: Housing (shell) electrical continuity (IEC 60512-2-6:2002) | Only procedure according IEC 60512-2-2 |
| Electrical engineering | IEC 60512-2-6 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 2-6: Electrical continuity and contact resistance tests; Test 2f: Housing (shell) electrical continuity | Only procedure according IEC 60512-2-2 |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-3-1 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests; Test 3a: Insulation resistance (IEC 60512-3-1:2002) | |
| Electrical engineering | IEC 60512-3-1 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests; Test 3a: Insulation resistance | |
| Electrical engineering | DIN EN 60512-4-1 (2004-01) | Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof (IEC 60512-4-1:2003) | |
| Electrical engineering | IEC 60512-4-1 (2003-05) | Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests; Test 4a: Voltage proof | |
| Electrical engineering | DIN EN 60512-5-1 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests; Test 5a: Temperature rise (IEC 60512-5-1:2002) | |
| Electrical engineering | IEC 60512-5-1 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests; Test 5a: Temperature rise | |
| Electrical engineering | DIN EN 60512-5-2 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests; Test 5b: Current-temperature derating (IEC 60512-5-2:2002) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-5-2 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests; Test 5b: Current-temperature derating | |
| Electrical engineering | DIN EN 60512-6-3 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests; Test 6c: Shock (IEC 60512-6-3:2002) | |
| Electrical engineering | IEC 60512-6-3 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests; Test 6c: Shock | |
| Electrical engineering | DIN EN 60512-6-4 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal) (IEC 60512-6-4:2002) | |
| Electrical engineering | IEC 60512-6-4 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal) | |
| Electrical engineering | DIN EN 60512-6-5 (2000-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests; section 5: Test 6e: Random vibration (IEC 60512-6-5:1997, modified) | |
| Electrical engineering | IEC 60512-6-5 (1997-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests - Section 5: Test 6e: Random vibration | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-7-1 (2010-12) | Connectors for electronic equipment - Tests and measurements - Part 7-1: Impact tests (free connectors) - Test 7a: Free fall (repeated) (IEC 60512-7-1:2010) | |
| Electrical engineering | IEC 60512-7-1 (2010-03) | Connectors for electronic equipment - Tests and measurements - Part 7-1: Impact tests (free components) - Test 7a: Free fall (repeated) | |
| Electrical engineering | DIN EN 60512-7-2 (2012-09) | Connectors for electronic equipment - Tests and measurements - Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact (IEC 60512-7-2:2011) | |
| Electrical engineering | IEC 60512-7-2 (2011-11) | Connectors for electronic equipment - Tests and measurements - Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact | |
| Electrical engineering | DIN EN 60512-8-1 (2011-06) | Connectors for electronic equipment - Tests and measurements - Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse (IEC 60512-8-1:2010) | |
| Electrical engineering | IEC 60512-8-1 (2010-06) | Connectors for electronic equipment - Tests and measurements - Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse | |
| Electrical engineering | DIN EN 60512-8-2 (2012-02) | Connectors for electronic equipment - Tests and measurements - Part 8-2: Static load tests (fixed connectors) - Test 8b: Static load, axial (IEC 60512-8-2:2011) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-8-2 (2011-04) | Connectors for electronic equipment - Tests and measurements - Part 8-2: Static load tests (fixed connectors) - Test 8b: Static load, axial | |
| Electrical engineering | DIN EN IEC 60512-8-3 (2018-10) | Connectors for electrical and electronic equipment - Tests and measurements - Part 8-3: Static load tests (fixed connectors) - Test 8c: Robustness of actuating lever (IEC 60512-8-3:2018) | |
| Electrical engineering | IEC 60512-8-3 (2018-01) | Connectors for electrical and electronic equipment - Tests and measurements - Part 8-3: Static load tests (fixed connectors) - Test 8c: Robustness of actuating lever | |
| Electrical engineering | DIN EN 60512-9-1 (2010-12) | Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation (IEC 60512-9-1:2010) | |
| Electrical engineering | IEC 60512-9-1 (2010-03) | Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation | |
| Electrical engineering | DIN EN 60512-9-2 (2012-09) | Connectors for electronic equipment - Tests and measurements - Part 9-2: Endurance tests - Test 9b: Electrical load and temperature (IEC 60512-9-2:2011) | |

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|---|---|---|---|
| Electrical engineering | IEC 60512-9-2 (2011-11) | Connectors for electronic equipment - Tests and measurements - Part 9-2: Endurance tests - Test 9b: Electrical load and temperature | |
| Electrical engineering | DIN EN 60512-9-3 (2012-04) | Connectors for electronic equipment - Tests and measurements - Part 9-3: Endurance tests - Test 9c: Mechanical operation (engaging/separating) with electrical load (IEC 60512-9-3:2011) | |
| Electrical engineering | IEC 60512-9-3 (2011-06) | Connectors for electronic equipment - Tests and measurements - Part 9-3: Endurance tests - Test 9c: Mechanical operation (engaging and separating) with electrical load | |
| Electrical engineering | DIN EN 60512-9-4 (2012-02) | Connectors for electronic equipment - Tests and measurements - Part 9-4: Endurance tests - Test 9d: Durability of contact retention system and seals (maintenance, ageing) (IEC 60512-9-4:2011) | |
| Electrical engineering | IEC 60512-9-4 (2011-04) | Connectors for electronic equipment - Tests and measurements - Part 9-4: Endurance tests - Test 9d: Durability of contact retention system and seals (maintenance, ageing) | |
| Electrical engineering | DIN EN IEC 60512-9-5:2021-02 | Connectors for electrical and electronic equipment - Tests and measurements - Part 9-5: Endurance tests - Test 9e: Current loading, cyclic (IEC 60512-9-5:2020) | only method A |
| Electrical engineering | IEC 60512-9-5:2020-06 | Connectors for electrical and electronic equipment - Tests and measurements - Part 9-5: Endurance tests - Test 9e: Current loading, cyclic | only method A |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-10-4 (2004-06) | Connectors for electronic equipment - Tests and measurements - Part 10-4: Impact tests (free components), static load tests and overload tests - endurance tests and overload tests - Test 10d: Electrical overload (connectors) (IEC 60512-10-4:2003) | Switching time ≥ 1 s |
| Electrical engineering | IEC 60512-10-4 (2003-08) | Connectors for electronic equipment - Tests and measurements - Part 10-4: Impact tests (free components), static load tests (fixed components), endurance test and overload tests; Test 10d: Electrical overload (connectors) | Switching time ≥ 1 s |
| Electrical engineering | DIN EN IEC 60512-11-1:2021-03 | Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence (IEC 60512-11-1:2019) | No low air pressure test |
| Electrical engineering | IEC 60512-11-1 (2019-05) | Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence | No low air pressure test |
| Electrical engineering | DIN EN 60512-11-3 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests; Test 11c: Damp heat, steady state (IEC 60512-11-3:2002) | |
| Electrical engineering | IEC 60512-11-3 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests; Test 11c: Damp heat, steady state | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-11-4 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests; Test 11d: Rapid change of temperature (IEC 60512-11-4:2002) | |
| Electrical engineering | IEC 60512-11-4 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests; Test 11d: Rapid change of temperature | |
| Electrical engineering | DIN EN 60512-11-6 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests; Test 11f: Corrosion, salt mist (IEC 60512-11-6:2002) | |
| Electrical engineering | IEC 60512-11-6 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests; Test 11f: Corrosion, salt mist | |
| Electrical engineering | DIN EN 60512-11-7 (2004-06) | Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test (IEC 60512-11-7:2003) | |
| Electrical engineering | IEC 60512-11-7 (2003-05) | Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests; Test 11g: Flowing mixed gas corrosion test | |
| Electrical engineering | DIN EN 60512-11-9 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat (IEC 60512-11-9:2002) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-11-9 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat | |
| Electrical engineering | DIN EN 60512-11-10 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold (IEC 60512-11-10:2002) | |
| Electrical engineering | IEC 60512-11-10 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold | |
| Electrical engineering | DIN EN 60512-11-11 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests; Test 11k: Low air pressure (IEC 60512-11-11:2002) | |
| Electrical engineering | IEC 60512-11-11 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests; Test 11k: Low air pressure | |
| Electrical engineering | DIN EN 60512-11-12 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests; Test 11m: Damp heat, cyclic (IEC 60512-11-12:2002) | |
| Electrical engineering | IEC 60512-11-12 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests; Test 11m: Damp heat, cyclic | |
| Electrical engineering | DIN EN 60512-12-1 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 12-1: Soldering tests - Test 12a: Solderability, wetting, solder bath method (IEC 60512-12-1:2006) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-12-1 (2006-03) | Connectors for electronic equipment - Tests and measurements - Part 12-1: Soldering tests - Test 12a: Solderability, wetting, solder bath method | |
| Electrical engineering | DIN EN 60512-12-2 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 12-2: Soldering tests - Test 12b: Solderability, wetting, soldering iron method (IEC 60512-12-2:2006) | |
| Electrical engineering | IEC 60512-12-2 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 12-2: Soldering tests - Test 12b: Solderability, wetting, soldering iron method | |
| Electrical engineering | DIN EN 60512-12-3 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 12-3: Soldering tests - Test 12c: Solderability, de-wetting (IEC 60512-12-3:2006) | |
| Electrical engineering | IEC 60512-12-3 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 12-3: Soldering tests - Test 12c: Solderability, de-wetting | |
| Electrical engineering | DIN EN 60512-12-4 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 12-4: Soldering tests - Test 12d: Resistance to soldering heat, solder bath method (IEC 60512-12-4:2006) | |
| Electrical engineering | IEC 60512-12-4 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 12-4: Soldering tests - Test 12d: Resistance to soldering heat, solder bath method | |
| Electrical engineering | DIN EN 60512-12-5 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 12-5: Soldering tests - Test 12e: Resistance to soldering heat, soldering iron method (IEC 60512-12-5:2006) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-12-5 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 12-5: Soldering tests - Test 12e: Resistance to soldering heat, soldering iron methods | |
| Electrical engineering | DIN EN 60512-12-7 (2001-11) | Connectors for electronic equipment - Tests and measurements - Part 12-7: Soldering tests; Test 12g: Solderability, wetting balance method (IEC 60512-12-7:2001) | |
| Electrical engineering | IEC 60512-12-7 (2001-01) | Connectors for electronic equipment - Tests and measurements - Part 12-7: Soldering tests; Test 12g: Solderability, wetting balance method | |
| Electrical engineering | DIN EN 60512-13-1 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces (IEC 60512-13-1:2006) | |
| Electrical engineering | IEC 60512-13-1 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces | |
| Electrical engineering | DIN EN 60512-13-2 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces (IEC 60512-13-2:2006) | |
| Electrical engineering | IEC 60512-13-2 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal force | |

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|---|---|---|---|
| Electrical engineering | DIN EN 60512-13-5 (2006-11) | Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method (IEC 60512-13-5:2006) | |
| Electrical engineering | IEC 60512-13-5 (2006-02) | Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method | |
| Electrical engineering | DIN EN 60512-14-7 (1998-07) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests; Section 7: Test 14g: Impacting water (IEC 60512-14-7:1997) | |
| Electrical engineering | IEC 60512-14-7 (1997-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water | |
| Electrical engineering | DIN EN 60512-15-1 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert (IEC 60512-15-1:2008) | |
| Electrical engineering | IEC 60512-15-1 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert | |
| Electrical engineering | DIN EN IEC 60512-15-2 (2018-10) | Connectors for electrical and electronic equipment - Tests and measurements - Part 15-2: Connector tests (mechanical) - Test 15b: Insert retention in housing (axial) (IEC 60512-15-2:2018) | procedure B (pressure) not possible |

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|---|---|---|---|
| Electrical engineering | IEC 60512-15-2 (2018-01) | Connectors for electrical and electronic equipment - Tests and measurements - Part 15-2: Connector tests (mechanical) - Test 15b: Insert retention in housing (axial) | procedure B (pressure) not possible |
| Electrical engineering | DIN EN 60512-15-3 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-3: Connector tests (mechanical) - Test 15c: Insert retention in housing (torsional) (IEC 60512-15-3:2008) | |
| Electrical engineering | IEC 60512-15-3 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-3: Connector tests (mechanical) - Test 15c: Insert retention in housing (torsional) | |
| Electrical engineering | DIN EN 60512-15-4 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-4: Connector tests (mechanical) - Test 15d: Contact insertion, release and extraction force (IEC 60512-15-4:2008) | |
| Electrical engineering | IEC 60512-15-4 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-4: Connector tests (mechanical) - Test 15d: Contact insertion, release and extraction force | |
| Electrical engineering | DIN EN 60512-15-5 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-5: Connector tests (mechanical) - Test 15e: Contact retention in insert, cable nutation (IEC 60512-15-5:2008) | |

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|---|---|---|---|
| Electrical engineering | IEC 60512-15-5 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-5: Connector tests (mechanical) - Test 15e: Contact retention in insert, cable nutation | |
| Electrical engineering | DIN EN 60512-15-6 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices (IEC 60512-15-6:2008) | |
| Electrical engineering | IEC 60512-15-6 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices | |
| Electrical engineering | DIN EN 60512-15-7 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 15-7: Connector tests (mechanical) - Test 15g: Robustness of protective cover attachment (IEC 60512-15-7:2008) | |
| Electrical engineering | IEC 60512-15-7 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 15-7: Connector tests (mechanical) - Test 15g: Robustness of protective cover attachment | |
| Electrical engineering | DIN EN 60512-16-1 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-1: Mechanical tests on contacts and terminations - Test 16a: Probe damage (IEC 60512-16-1:2008) | |
| Electrical engineering | IEC 60512-16-1 (2008-06) | Connectors for electronic equipment - Tests and measurements - Part 16-1: Mechanical tests on contacts and terminations - Test 16a: Probe damage | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-16-2 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-2: Mechanical tests on contacts and terminations - Test 16b: Restricted entry (IEC 60512-16-2:2008) | |
| Electrical engineering | IEC 60512-16-2 (2008-06) | Connectors for electronic equipment - Tests and measurements - Part 16-2: Mechanical tests on contacts and terminations - Test 16b: Restricted entry | |
| Electrical engineering | DIN EN 60512-16-3 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-3: Mechanical tests on contacts and terminations - Test 16c: Contact-bending strength (IEC 60512-16-3:2008) | |
| Electrical engineering | IEC 60512-16-3 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 16-3: Mechanical tests on contacts and terminations - Test 16c: Contact-bending strength | |
| Electrical engineering | DIN EN 60512-16-4 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-4: Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections) (IEC 60512-16-4:2008) | |
| Electrical engineering | IEC 60512-16-4 (2008-06) | Connectors for electronic equipment - Tests and measurements - Part 16-4: Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-16-5 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-5: Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts) (IEC 60512-16-5:2008) | |
| Electrical engineering | IEC 60512-16-5 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 16-5: Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts) | |
| Electrical engineering | DIN EN 60512-16-6 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-6: Mechanical tests on contacts and terminations - Test 16f: Robustness of terminations (IEC 60512-16-6:2008) | |
| Electrical engineering | IEC 60512-16-6 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 16-6: Mechanical tests on contacts and terminations - Test 16f: Robustness of terminations | |
| Electrical engineering | DIN EN 60512-16-8 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-8: Mechanical tests on connections and terminations - Test 16h: Insulating grip effectiveness (crimped connections) (IEC 60512-16-8:2008) | |
| Electrical engineering | IEC 60512-16-8 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 16-8: Mechanical tests on connections and terminations - Test 16h: Insulating grip effectiveness (crimped connections) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60512-16-11 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-11: Mechanical tests on contacts and terminations - Test 16k: Stripping force, solderless wrapped connections (IEC 60512-16-11:2008) | |
| Electrical engineering | IEC 60512-16-11 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 16-11: Mechanical tests on contacts and terminations - Test 16k: Stripping force, solderless wrapped connections | |
| Electrical engineering | DIN EN 60512-16-13 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-13: Mechanical tests on contacts and terminations - Test 16m: Un-wrapping, solderless wrapped connections (IEC 60512-16-13:2008) | |
| Electrical engineering | IEC 60512-16-13 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 16-13: Mechanical tests on contacts and terminations - Test 16m: Un-wrapping, solderless wrapped connections | |
| Electrical engineering | DIN EN 60512-16-14 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-14: Mechanical tests on contacts and terminations - Test 16n: Bending strength, fixed male tabs (IEC 60512-16-14:2008) | |
| Electrical engineering | IEC 60512-16-14 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 16-14: Mechanical tests on contacts and terminations - Test 16n: Bending strength, fixed male tabs | |
| Electrical engineering | DIN EN 60512-16-16 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-16: Mechanical tests on contacts and terminations - Test 16p: Torsional | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| | | strength, fixed male tabs (IEC 60512-16-16:2008) | |
| Electrical engineering | IEC 60512-16-16 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 16-16: Mechanical tests on contacts and terminations - Test 16p: Torsional strength, fixed male tabs | |
| Electrical engineering | DIN EN 60512-16-17 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-17: Mechanical tests on contacts and terminations - Test 16q: Tensile and compressive strength, fixed male tabs (IEC 60512-16-17:2008) | |
| Electrical engineering | IEC 60512-16-17 (2008-07) | IEC 60512-16-17, Ed. 1.0: Connectors for electronic equipment - Tests and measurements - Part 16-17: Mechanical tests on contacts and terminations - Test 16q: Tensile and compressive strength, fixed male tabs | |
| Electrical engineering | DIN EN 60512-16-18 (2009-03) | Connectors for electronic equipment - Tests and measurements - Part 16-18: Mechanical tests on contacts and terminations - Test 16r: Deflection of contacts, simulation (IEC 60512-16-18:2008) | |
| Electrical engineering | IEC 60512-16-18 (2008-05) | Connectors for electronic equipment - Tests and measurements - Part 16-18: Mechanical tests on contacts and terminations - Test 16r: Deflection of contacts, simulation | |
| Electrical engineering | DIN EN 60512-16-20 (1997-03) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 16: Mechanical tests on contacts and terminations; section 20: Test 16t: Mechanical strength (wired termination of solderless connections) (IEC 60512-16-20:1996) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-16-20 (1996-08) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 16: Mechanical tests on contacts and terminations - Section 20: Test 16t: Mechanical strength (wired termination of solderless connections) | |
| Electrical engineering | DIN EN 60512-17-1 (2011-06) | Connectors for electronic equipment - Tests and measurements - Part 17-1: Cable clamping tests - Test 17a: Cable clamp robustness (IEC 60512-17-1:2010) | |
| Electrical engineering | IEC 60512-17-1 (2010-06) | Connectors for electronic equipment - Tests and measurements - Part 17-1: Cable clamping tests - Test 17a: Cable clamp robustness | |
| Electrical engineering | DIN EN 60512-17-2 (2012-02) | Connectors for electronic equipment - Tests and measurements - Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation (IEC 60512-17-2:2011) | |
| Electrical engineering | IEC 60512-17-2 (2011-04) | Connectors for electronic equipment - Tests and measurements - Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation | |
| Electrical engineering | DIN EN 60512-17-3 (2011-06) | Connectors for electronic equipment - Tests and measurements - Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile) (IEC 60512-17-3:2010) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-17-3 (2010-06) | Connectors for electronic equipment - Tests and measurements - Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile) | |
| Electrical engineering | DIN EN 60512-17-4 (2011-06) | Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion (IEC 60512-17-4:2010) | |
| Electrical engineering | IEC 60512-17-4 (2010-06) | Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion | |
| Electrical engineering | DIN EN 60512-19-3 (1998-03) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests; section 3: Test 19c: Fluid resistance (IEC 60512-19-3:1997) | |
| Electrical engineering | IEC 60512-19-3 (1997-07) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests - Section 3: Test 19c: Fluid resistance | |
| Electrical engineering | DIN EN 60512-99-001 (2013-05) | Connectors for electronic equipment - Tests and measurements - Part 99-001: Test schedule for engaging and separating connectors under electrical load - Test 99a: Connectors used in twisted pair communication cabling with remote power (IEC 60512-99-001:2012) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60512-99-001 (2012-08) | Connectors for electronic equipment - Tests and measurements - Part 99-001: Test schedule for engaging and separating connectors under electrical load - Test 99a: Connectors used in twisted pair communication cabling with remote power | |
| Electrical engineering | DIN EN 60529 (2014-09) | Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013) | except IPX1 and IPX2 |
| Electrical engineering | IEC 60529 Edition 2.2 (2013-08) | Degrees of protection provided by enclosures (IP code) | except IPX1 and IPX2 |
| Electrical engineering | DIN EN 60999-1 (2000-12) | Connecting devices - Electrical copper conductors; Safety requirements for screw-type and screwless-type clamping units - Part 1:General requirements and particular requirements for clamping units for conductors 0,2 mm2 up to 35 mm2 (included) (IEC 60999-1:1999, modified) | |
| Electrical engineering | IEC 60999-1 (1999-11) | Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm2 up to 35 mm2 (included) | |
| Electrical engineering | DIN EN 60999-2 (2004-04) | Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm2 up to 300 mm2 (included) (IEC 60999-2:2003) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60999-2 (2003-05) | Connecting devices - Electrical copper conductors; Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors from 35 mm2 up to 300 mm2 (included) | |
| Electrical engineering | DIN EN 61373 (2011-04) | Railway applications - Rolling stock equipment - Shock and vibration tests (IEC 61373:2010) | |
| Electrical engineering | IEC 61373 (2010-05) | Railway applications - Rolling stock equipment - Shock and vibration tests | |
| Electrical engineering | DIN EN 62137-1-2 (2008-02) | Surface mounting technology - Environmental and endurance test methods for surface mount solder joint - Part 1-2: Shear strength test (IEC 62137-1-2:2007) | |
| Electrical engineering | IEC 62137-1-2 (2007-07) | Surface mounting technology - Environmental and endurance test methods for surface mount solder joint - Part 1-2: Shear strength test | |
| **1.2. Product family standards** | | | |
| Electrical engineering | UL 1977 (2016) | Component connectors for use in data, signal, control and power applications | |
| Electrical engineering | DIN EN ISO 2409:2020-12 | Paints and varnishes - Cross-cut test (ISO 2409:2020); German version EN ISO 2409:2020 | |
| Electrical engineering | ISO 2409 (2020-08) | Paints and varnishes - Cross-cut test | |
| Electrical engineering | DIN EN ISO 9220 (1995-01) | Metallic coatings - Measurement of coating thickness - Scanning electron microscope method (ISO 9220:1988) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | ISO 22309 (2011-10) | Microbeam analysis - Quantitative analysis using energy-dispersive spectrometry (EDS) for elements with an atomic number of 11 (Na) or above | |
| Electrical engineering | BS EN 50155:2017 | Railway applications. Rolling stock. Electronic equipment | Restrictions:<br><br>- only chapters 13.4.3 till 13.4.12<br><br>- " Low temperature start-up test" -> test only with ventilation possible |
| Electrical engineering | DIN EN 50155 (2018-05) | Railway applications - Rolling stock - Electronic equipment | Restrictions:<br><br>- only chapters 13.4.3 till 13.4.12<br><br>- " Low temperature start-up test" -> test only with ventilation possible |
| Electrical engineering | BS EN 50467:2011 | Railway applications. Rolling stock. Electrical connectors, requirements and test methods | |
| Electrical engineering | DIN EN 50467 (2012-10) | Railway applications - Rolling stock - Electrical connectors, requirements and test methods | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | DIN EN 60352-1 (1998-04) | Solderless connections - Part 1: Wrapped connections; general requirements, test methods and practical guidance (IEC 60352-1:1997) | |
| Electrical engineering | IEC 60352-1 (1997-08) | Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-2 (2014-04) | Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance (IEC 60352-2:2006 + A1:2013) | |
| Electrical engineering | IEC 60352-2 (2006-02) | Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-2 AMD 1 (2013-06) | Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-3 (1995-05) | Solderless connections - Part 3: Solderless accessible insulation displacement connections; general requirements, test methods and practical guidance (IEC 60352-3:1993) | |
| Electrical engineering | IEC 60352-3:2020-04 | Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-4 (2001-09) | Solderless connections - Part 4: Solderless non-accessible insulation displacement connections; General requirements, test methods and practical guidance (IEC 60352-4:1994 + A1:2000) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 60352-4 (2020-06) | Solderless connections - Part 4: Non-accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-5 (2012-10) | Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance (IEC 60352-5:2012) | |
| Electrical engineering | IEC 60352-5:2020-07 | Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-6 (1998-03) | Solderless connections - Part 6: Insulation piercing connections; general requirements, test methods and practical guidance (IEC 60352-6:1997) | |
| Electrical engineering | IEC 60352-6 (1997-08) | Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 60352-7 (2003-07) | Solderless connections - Part 7: Spring clamp connections; General requirements, test methods and practical guidance (IEC 60352-7:2002) | |
| Electrical engineering | IEC 60352-7:2020-12 | Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance | |
| Electrical engineering | DIN EN 61984 (2009-11) | Connectors - Safety requirements and tests (IEC 61984:2008) | |
| Electrical engineering | DIN EN 61984 Berichtigung 1 (2012-03) | Connectors - Safety requirements and tests (IEC 61984:2008) | |
| Electrical engineering | IEC 61984 (2008-10) | Connectors - Safety requirements and tests | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Electrical engineering | IEC 61984 Corrigendum 1 (2011-10) | Connectors - Safety requirements and tests; Corrigendum 1 | |
| Electrical engineering | HWN 121.00.18 (09-2021) | Documentation and execution of SEM, FIB and EDX tests | **No Flexible Accreditation Category 3** |
| **2. Environmental tests** | | | |
| **2.1. Basic standards** | | | |
| Environmental tests | ASTM B 117 (2019) | Standard Practice for Operating Salt Spray (Fog) Apparatus | |
| Environmental tests | DIN ISO 1431-1 (2017-04) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing (ISO 1431-1:2012) | |
| Environmental tests | ISO 1431-1 (2012-08) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing | |
| Environmental tests | DIN EN ISO 4892-1 (2016-10) | Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 4892-1:2016) | |
| Environmental tests | DIN EN ISO 4892-2 (2013-06) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 4892-2:2013) | |
| Environmental tests | ISO 4892-2 (2013-03) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps | |
| Environmental tests | DIN EN ISO 6270-2 (2018-04) | Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) (ISO 6270-2:2017) | |
| Environmental tests | ISO 6270-2 (2017-11) | Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN ISO 9227 (2017-07) | Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017) | Only Test NSS |
| Environmental tests | ISO 9227 (2017-03) | Corrosion tests in artificial atmospheres - Salt spray tests | |
| Environmental tests | DIN EN 60068-2-1 (2008-01) | Environmental testing - Part 2-1: Tests - Test A: Cold (IEC 60068-2-1:2007) | |
| Environmental tests | IEC 60068-2-1 (2007-03) | Environmental testing - Part 2-1: Tests - Test A: Cold | |
| Environmental tests | DIN EN 60068-2-2 (2008-05) | Environmental testing - Part 2-2: Tests - Test B: Dry heat (IEC 60068-2-2:2007) | |
| Environmental tests | IEC 60068-2-2 (2007-07) | Environmental testing - Part 2-2: Tests - Test B: Dry heat | |
| Environmental tests | DIN EN IEC 60068-2-5 (2019-02) | Environmental testing - Part 2-5: Tests - Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering (IEC 60068-2-5:2018) | |
| Environmental tests | IEC 60068-2-5 (2018-04) | Environmental testing - Part 2-5: Tests - Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering | |
| Environmental tests | DIN EN 60068-2-6 (2008-10) | Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007) | |
| Environmental tests | IEC 60068-2-6 (2007-12) | Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) | |
| Environmental tests | DIN EN 60068-2-11 (2000-02) | Environmental testing - Part 2: Tests; test Ka: Salt mist (IEC 60068-2-11:1981) | |
| Environmental tests | IEC 60068-2-11 (2021-03) | Environmental testing - Part 2-11: Tests - Test Ka: Salt mist | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN 60068-2-14 (2010-04) | Environmental testing - Part 2-14: Tests - Test N: Change of temperature (IEC 60068-2-14:2009) | Only Method Na and Nb |
| Environmental tests | IEC 60068-2-14 (2009-01) | Environmental testing - Part 2-14: Tests - Test N: Change of temperature | Only Method Na and Nb |
| Environmental tests | DIN EN 60068-2-20 (2009-02) | Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads (IEC 60068-2-20:2008) | |
| Environmental tests | IEC 60068-2-20 (2008-07) | Environmental testing - Part 2: Tests - Test T: Test methods for soldeability and resistance to soldering heat of devices with leads | |
| Environmental tests | DIN EN 60068-2-21 (2007-01) | Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices (IEC 60068-2-21:2006) | |
| Environmental tests | IEC 60068-2-21 (2006-06) | Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices | |
| Environmental tests | DIN EN 60068-2-27 (2010-02) | Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock (IEC 60068-2-27:2008) | |
| Environmental tests | IEC 60068-2-27 (2008-02) | Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock | |
| Environmental tests | DIN EN 60068-2-30 (2006-06) | Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) (IEC 60068-2-30:2005) | |
| Environmental tests | IEC 60068-2-30 (2005-08) | Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN 60068-2-38 (2010-06) | Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:2009) | |
| Environmental tests | IEC 60068-2-38 (2021-03) | Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test | |
| Environmental tests | DIN EN IEC 60068-2-52 (2018-08) | Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:2017) | Test procedure 7+8 not possible |
| Environmental tests | IEC 60068-2-52 (2017-11) | Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) | Test procedure 7+8 not possible |
| Environmental tests | DIN EN 60068-2-60 (2016-06) | Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test (IEC 60068-2-60:2015) | |
| Environmental tests | IEC 60068-2-60 (2015-06) | Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test | |
| Environmental tests | DIN EN 60068-2-61 (1993-12) | Environmental testing; part 2: test methods; test Z/ABDM: climatic sequence (IEC 60068-2-61:1991) | No low air pressure test |
| Environmental tests | IEC 60068-2-61 (1991-06) | Environmental testing; part 2: test methods; test Z/ABDM: climatic sequence | No low air pressure test |
| Environmental tests | DIN EN 60068-2-64:2020-09 | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance (IEC 60068-2-64:2008 + A1:2019) | Only gaussian distribution (kurtosis = 3 & skewness = 0) |
| Environmental tests | IEC 60068-2-64 (2008-04) | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broad-band random and guidance | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | IEC 60068-2-64 AMD 1 (2019-10) | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance; Amendment 1 | Only gaussian distribution (kurtosis = 3 & skewness = 0) |
| Environmental tests | DIN EN 60068-2-67:2020-08 | Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components (IEC 60068-2-67:1995 + A1:2019) | |
| Environmental tests | IEC 60068-2-67 (1995-12) | Environmental testing - Part 2: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components | |
| Environmental tests | DIN EN 60068-2-69 (2020-03) | Environmental testing - Part 2-69: Tests - Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method (IEC 60068-2-69:2017 + COR1:2018 + A1:2019) | Only chapter 8.2.2, Solder bath wetting balance procedure |
| Environmental tests | IEC 60068-2-69 (2017-03) | Environmental testing - Part 2-69: Tests - Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method | Only chapter 8.2.2, Solder bath wetting balance procedure |
| Environmental tests | DIN EN 60068-2-70 (1996-07) | Environmental testing - Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands (IEC 60068-2-70:1995) | |
| Environmental tests | IEC 60068-2-70 (1995-12) | Environmental testing - Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands | |
| Environmental tests | DIN EN 60068-2-78 (2014-02) | Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state (IEC 60068-2-78:2012) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | IEC 60068-2-78 (2012-10) | Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state | |
| Environmental tests | DIN EN 60512-6-3 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests; Test 6c: Shock (IEC 60512-6-3:2002) | |
| Environmental tests | IEC 60512-6-3 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests; Test 6c: Shock | |
| Environmental tests | DIN EN 60512-6-4 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal) (IEC 60512-6-4:2002) | |
| Environmental tests | IEC 60512-6-4 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal) | |
| Environmental tests | DIN EN 60512-6-5 (2000-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests; section 5: Test 6e: Random vibration (IEC 60512-6-5:1997, modified) | |
| Environmental tests | IEC 60512-6-5 (1997-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests - Section 5: Test 6e: Random vibration | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN IEC 60512-11-1:2021-03 | Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence (IEC 60512-11-1:2019) | No low air pressure test |
| Environmental tests | IEC 60512-11-1 (2019-05) | Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence | No low air pressure test |
| Environmental tests | DIN EN 60512-11-3 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests; Test 11c: Damp heat, steady state (IEC 60512-11-3:2002) | |
| Environmental tests | IEC 60512-11-3 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests; Test 11c: Damp heat, steady state | |
| Environmental tests | DIN EN 60512-11-4 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests; Test 11d: Rapid change of temperature (IEC 60512-11-4:2002) | |
| Environmental tests | IEC 60512-11-4 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests; Test 11d: Rapid change of temperature | |
| Environmental tests | DIN EN 60512-11-6 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests; Test 11f: Corrosion, salt mist (IEC 60512-11-6:2002) | |
| Environmental tests | IEC 60512-11-6 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests; Test 11f: Corrosion, salt mist | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN 60512-11-7 (2004-06) | Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test (IEC 60512-11-7:2003) | |
| Environmental tests | IEC 60512-11-7 (2003-05) | Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests; Test 11g: Flowing mixed gas corrosion test | |
| Environmental tests | DIN EN 60512-11-9 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat (IEC 60512-11-9:2002) | |
| Environmental tests | IEC 60512-11-9 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat | |
| Environmental tests | DIN EN 60512-11-10 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold (IEC 60512-11-10:2002) | |
| Environmental tests | IEC 60512-11-10 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold | |
| Environmental tests | DIN EN 60512-11-11 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests; Test 11k: Low air pressure (IEC 60512-11-11:2002) | |
| Environmental tests | IEC 60512-11-11 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests; Test 11k: Low air pressure | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN 60512-11-12 (2003-01) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests; Test 11m: Damp heat, cyclic (IEC 60512-11-12:2002) | |
| Environmental tests | IEC 60512-11-12 (2002-02) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests; Test 11m: Damp heat, cyclic | |
| Environmental tests | DIN EN 60512-14-7 (1998-07) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests; Section 7: Test 14g: Impacting water (IEC 60512-14-7:1997) | |
| Environmental tests | IEC 60512-14-7 (1997-10) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water | |
| Environmental tests | DIN EN 60529 (2014-09) | Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013) | except IPX1 and IPX2 |
| Environmental tests | DIN EN 61300-2-1 (2010-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) (IEC 61300-2-1:2009) | |
| Environmental tests | IEC 61300-2-1 (2009-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) | |
| Environmental tests | DIN EN 61300-2-9 (2017-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock (IEC 61300-2-9:2017) | |
| Environmental tests | IEC 61300-2-9 (2017-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests – Shock | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | DIN EN 61300-2-17 (2011-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests -Cold (IEC 61300-2-17:2010) | |
| Environmental tests | IEC 61300-2-17 (2010-11) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests – Cold | |
| Environmental tests | DIN EN 61300-2-18 (2006-04) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance (IEC 61300-2-18:2005) | |
| Environmental tests | IEC 61300-2-18 (2005-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance | |
| Environmental tests | DIN EN 61300-2-19 (2013-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) (IEC 61300-2-19:2012) | |
| Environmental tests | IEC 61300-2-19 (2012-11) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) | |
| Environmental tests | DIN EN 61300-2-21 (2010-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test (IEC 61300-2-21:2009) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | IEC 61300-2-21 (2009-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test | |
| Environmental tests | DIN EN 61300-2-22 (2008-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature (IEC 61300-2-22:2007) | |
| Environmental tests | IEC 61300-2-22 (2007-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature | |
| Environmental tests | DIN EN 61300-2-26 (2008-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist (IEC 61300-2-26:2006) | |
| Environmental tests | IEC 61300-2-26 (2006-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist | |
| Environmental tests | DIN EN IEC 61300-2-46:2020-02 | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic (IEC 61300-2-46:2019) | |
| Environmental tests | IEC 61300-2-46 (2019-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic | |
| Environmental tests | DIN EN 61373 (2011-04) | Railway applications - Rolling stock equipment - Shock and vibration tests (IEC 61373:2010) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Environmental tests | IEC 61373 (2010-05) | Railway applications - Rolling stock equipment - Shock and vibration tests | |
| **3. Fibre optic** | | | |
| **3.1. Basic standards** | | | |
| Fibre optic | JIS C 6863:1990-08 | Test methods for attenuation of all plastic multimode optical fibers | |
| Fibre optic | DIN EN 60793-2-40 (2016-10) | Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres (IEC 60793-2-40:2015) | Only appendix I |
| Fibre optic | IEC 60793-2-40:2021-02 | Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres | Only appendix J; Mode scramblers for subcategory A4a to A4c fibres |
| Fibre optic | DIN EN IEC 61280-4-1 (2020-07) | Fibre-optic communication subsystem test procedures - Part 4-1: Installed cabling plant - Multimode attenuation measurement (IEC 61280-4-1:2019) | |
| Fibre optic | IEC 61280-4-1 (2019-05) | Fibre-optic communication subsystem test procedures - Part 4-1: Installed cabling plant - Multimode attenuation measurement | |
| Fibre optic | DIN EN 61280-4-2 (2015-05) | Fibre-optic communication subsystem test procedures - Part 4-2: Installed cable plant - Single-mode attenuation and optical return loss measurement (IEC 61280-4-2:2014) | |
| Fibre optic | IEC 61280-4-2 (2014-06) | Fibre-optic communication subsystem test procedures - Part 4-2: Installed cable plant - Single-mode attenuation and optical return loss measurement | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | DIN EN 61300-1 (2017-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance (IEC 61300-1:2016) | No stimulus conditions for category A3e multi-mode fibres with angle-dependent limited luminous flux EAF |
| Fibre optic | IEC 61300-1 (2016-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance | No Multimode launch conditions for A3e fibre with encircled angular flux (EAF) metric |
| Fibre optic | DIN EN 61300-2-1 (2010-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) (IEC 61300-2-1:2009) | |
| Fibre optic | IEC 61300-2-1 (2009-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) | |
| Fibre optic | IEC 61300-2-1 Corrigendum 1 (2010-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal); Corrigendum 1 | |
| Fibre optic | DIN EN 61300-2-2 (2009-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability, (IEC 61300-2-2:2009) | |
| Fibre optic | IEC 61300-2-2 (2009-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | DIN EN IEC 61300-2-4 (2019-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre or cable retention (IEC 61300-2-4:2019) | |
| Fibre optic | IEC 61300-2-4 (2019-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre or cable retention | |
| Fibre optic | DIN EN 61300-2-5 (2011-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion (IEC 61300-2-5:2009) | |
| Fibre optic | IEC 61300-2-5 (2009-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests – Torsion | |
| Fibre optic | DIN EN 61300-2-6 (2011-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism (IEC 61300-2-6:2010) | |
| Fibre optic | IEC 61300-2-6 (2010-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism | |
| Fibre optic | DIN EN 61300-2-7 (2014-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment (IEC 61300-2-7:2013) | |
| Fibre optic | IEC 61300-2-7 (2013-05) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | DIN EN 61300-2-9 (2017-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock (IEC 61300-2-9:2017) | |
| Fibre optic | IEC 61300-2-9 (2017-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests – Shock | |
| Fibre optic | DIN EN 61300-2-10 (2013-04) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance (IEC 61300-2-10:2012) | |
| Fibre optic | IEC 61300-2-10:2021-03 | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush and load resistance | -no load applied on the top surface of a street cabinet or cabinet door<br><br>-no addition of test temperature(s) |
| Fibre optic | DIN EN 61300-2-12 (2010-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact (IEC 61300-2-12:2009) | |
| Fibre optic | IEC 61300-2-12 (2009-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests – Impact | |
| Fibre optic | DIN EN 61300-2-17 (2011-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests -Cold (IEC 61300-2-17:2010) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | IEC 61300-2-17 (2010-11) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests – Cold | |
| Fibre optic | DIN EN 61300-2-18 (2006-04) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance (IEC 61300-2-18:2005) | |
| Fibre optic | IEC 61300-2-18 (2005-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance | |
| Fibre optic | DIN EN 61300-2-19 (2013-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) (IEC 61300-2-19:2012) | |
| Fibre optic | IEC 61300-2-19 (2012-11) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) | |
| Fibre optic | DIN EN 61300-2-21 (2010-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test (IEC 61300-2-21:2009) | |
| Fibre optic | IEC 61300-2-21 (2009-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | DIN EN 61300-2-22 (2008-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature (IEC 61300-2-22:2007) | |
| Fibre optic | IEC 61300-2-22 (2007-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature | |
| Fibre optic | DIN EN 61300-2-26 (2008-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist (IEC 61300-2-26:2006) | |
| Fibre optic | IEC 61300-2-26 (2006-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist | |
| Fibre optic | DIN EN 61300-2-35 (2015-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-35: Tests - Cable nutation (IEC 61300-2-35:2014) | |
| Fibre optic | IEC 61300-2-35 (2014-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-35: Tests - Cable nutation | |
| Fibre optic | DIN EN 61300-2-42 (2014-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief (IEC 61300-2-42:2014) | |
| Fibre optic | IEC 61300-2-42 (2014-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | DIN EN 61300-2-44 (2014-02) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices (IEC 61300-2-44:2013) | |
| Fibre optic | IEC 61300-2-44 (2013-07) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices | |
| Fibre optic | DIN EN IEC 61300-2-46:2020-02 | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic (IEC 61300-2-46:2019) | |
| Fibre optic | IEC 61300-2-46 (2019-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic | |
| Fibre optic | DIN EN 61300-3-1 (2006-06) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination (IEC 61300-3-1:2005) | |
| Fibre optic | IEC 61300-3-1 (2005-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination | |
| Fibre optic | DIN EN 61300-3-3 (2009-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss (IEC 61300-3-3:2009) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | IEC 61300-3-3 (2009-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss | |
| Fibre optic | DIN EN 61300-3-4 (2013-11) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation (IEC 61300-3-4:2012) | |
| Fibre optic | IEC 61300-3-4 (2012-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements – Attenuation | |
| Fibre optic | DIN EN 61300-3-6 (2009-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss (IEC 61300-3-6:2008) | |
| Fibre optic | IEC 61300-3-6 (2008-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss | |
| Fibre optic | DIN EN 61300-3-11 (1998-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-11: Examinations and measurements; engagement and separation forces (IEC 61300-3-11:1995) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Fibre optic | IEC 61300-3-11 (1995-05) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-11: Examinations and measurements - Engagement and separation forces | |
| Fibre optic | DIN EN 61300-3-22 (2011-08) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-22: Examinations and measurements - Ferrule compression force (IEC 61300-3-22:2010) | |
| Fibre optic | IEC 61300-3-22 (2010-12) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-22: Examinations and measurements - Ferrule compression force | |
| Fibre optic | DIN EN 61300-3-28 (2012-10) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss (IEC 61300-3-28:2012) | |
| Fibre optic | IEC 61300-3-28 (2012-03) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss | |
| Fibre optic | DIN EN 61300-3-34 (2009-09) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors (IEC 61300-3-34:2009) | |
| Fibre optic | IEC 61300-3-34 (2009-01) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| | | Examinations and measurements - Attenuation of random mated connectors | |
| Fibre optic | DIN EN 61300-3-35 (2016-04) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers (IEC 61300-3-35:2015) | |
| Fibre optic | IEC 61300-3-35 (2015-06) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers | |
| **4. EMC** | | | |
| **4.1. Basic standards** | | | |
| EMC | DIN EN 55016-2-1 (2019-11) | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2014 + A1:2017) | Testing 1-phase only |
| EMC | DIN EN 55016-2-3:2020-11 | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements (CISPR 16-2-3:2016 + A1:2019) | - radiated emission test only in frequency range 1-6 GHz<br><br>- Specimen volume Diameter 1m x height 1m |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 61000-4-2 (2009-12) | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008) | |
| EMC | DIN EN 61000-4-3 (2011-04) | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010) | 80 Mhz - 1 GHz: 20 V/m<br>1Ghz - 2,7 GHz: 10 V/m<br>2,7Ghz - 6 GHz: 10 V/m<br><br>specimen geometry: 1,m x 1m |
| EMC | DIN EN 61000-4-4 (2013-04) | Electromagnetic compatibility (EMC) - Part 4-4:Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012) | |
| EMC | DIN EN 61000-4-5 (2019-03) | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017) | No test for unshielded symmetric lines<br><br>No test with impulse definition 10/700 µs |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 61000-4-5 Berichtigung 1:2021-04 | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017) | No test for unshielded symmetric lines<br><br>No test with impulse definition 10/700 µs |
| EMC | DIN EN 61000-4-6 (2014-08) | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013) | |
| EMC | DIN EN 61000-4-11 (2019-06) | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004 + A1:2017) | Testing 1-phase only |
| **4.2. Product family standards** | | | |
| EMC | DIN EN 50121-3-2 (2017-11) | Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus | - no test according EN 61000-4-30<br>- radiated emission test only in frequency range 1-6 GHz<br>- Specimen volume Diameter 1m x Höhe 1m |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 50121-3-2/A1:2020-11 | Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus | - no test according EN 61000-4-30<br>- radiated emission test only in frequency range 1-6 GHz<br>- Specimen volume Diameter 1m x height 1m |
| EMC | BS EN 50155:2017 | Railway applications. Electronic equipment used on rolling stock | Restrictions:<br><br>- only chapters 13.4.3 till 13.4.12<br><br>- " Low temperature start-up test" -> test only with ventilation possible |
| EMC | DIN EN 50155 (2018-05) | Railway applications - Rolling stock - Electronic equipment | Restrictions:<br><br>- only chapters 13.4.3 till 13.4.12<br><br>- " Low temperature start-up test" -> test only with ventilation possible |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 55014-1 (2018-08) | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2016 + COR1:2016) | -no testing Disturbance power<br><br>- no testing Magnetic field strength<br><br>- radiated emission test only in frequency range 1-6 GHz<br>- Specimen volume Diameter 1m x height 1m |
| EMC | DIN EN 55014-1/A11:2021-03 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission | -no testing Disturbance power<br><br>- no testing Magnetic field strength<br><br>- radiated emission test only in frequency range 1-6 GHz<br><br>- Specimen volume Diameter 1m x height 1m |
| EMC | DIN EN 55014-2 (2016-01) | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 55032 (2016-02) | Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015) | - no test for 3-phase specimen<br>- no test according C4.2 and C4.3<br>- radiated emission test only in frequency range 1-6 GHz<br>- Specimen volume Diameter 1m x height 1m |
| EMC | DIN EN 55032/A11:2021-03 | Electromagnetic compatibility of multimedia equipment - Emission Requirements | - no test for 3-phase specimen<br>- no test according C4.2 and C4.3<br>- radiated emission test only in frequency range 1-6 GHz<br>- Specimen volume Diameter 1m x height 1m |
| EMC | DIN EN 55035 (2018-04) | Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016, modified) | No test according 4.2.3 Magnetic field DIN EN 61000-4-8<br><br>No test according 4.2.7 Broadband impulsive conducted disturbances |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN IEC 61000-3-2 (2019-12) | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ? 16 A per phase) (IEC 61000-3-2:2018) | Testing 1-phase only |
| EMC | DIN EN 61000-3-3:2020-07 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013 + A1:2017) | Testing 1-phase only |
| **4.3. Generic standards** | | | |
| EMC | DIN EN 61000-6-1:2007-10 | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005) | No test: Magnetic field DIN EN 61000-4-8 |
| EMC | DIN EN IEC 61000-6-1 (2019-11) | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016) | No test: Magnetic field DIN EN 61000-4-8 |
| EMC | DIN EN 61000-6-2:2006-03 | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005) | No test: Magnetic field DIN EN 61000-4-8 |
| EMC | DIN EN IEC 61000-6-2 (2019-11) | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016) | No test: Magnetic field DIN EN 61000-4-8 |
| EMC | DIN EN 61000-6-3 (2011-09) | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010) | Specimen volume Diameter 1m x height 1m |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| EMC | DIN EN 61000-6-4:2011-09 | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010) | Specimen volume Diameter 1m x height 1m |
| EMC | DIN EN IEC 61000-6-4:2020-09 | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018) | Specimen volume Diameter 1m x height 1m |
| **5. Signal integrity** | | | |
| **5.1. Basic standards** | | | |
| Signal integrity | DIN EN 50289-1-6 (2002-12) | Communication cables - Specifications for test methods - Part 1-6: Electrical test methods; Electromagnetic performance | |
| Signal integrity | DIN EN 50289-1-14 (2004-12) | Communication cables - Specifications for test methods - Part 1-14: Electrical test methods - Coupling attenuation or screening attenuation of connecting hardware | |
| Signal integrity | DIN EN IEC 60512-23-3 (2020-02) | Connectors for electrical and electronic equipment - Tests and measurements - Part 23-3: Screening and filtering tests - Test 23c: Shielding effectiveness of connectors and accessories - Line injection method (IEC 60512-23-3:2018) | |
| Signal integrity | IEC 60512-23-3 (2018-12) | Connectors for electrical and electronic equipment - Tests and measurements - Part 23-3: Screening and filtering tests - Test 23c: Shielding effectiveness of connectors and accessories - Line injection method | |
| Signal integrity | DIN EN 60512-23-7 (2005-10) | Connectors for electronic equipment - Tests and measurements - Part 23-7: Screening and filtering tests - Test 23g: Effective transfer impedance of connectors (IEC 60512-23-7:2005) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | IEC 60512-23-7 (2005-01) | Connectors for electronic equipment - Tests and measurements - Part 23-7: Screening and filtering tests - Test 23g: Effective transfer impedance of connectors | |
| Signal integrity | DIN EN 60512-25-1 (2002-08) | Connectors for electronic equipment - Tests and measurements - Part 25-1: Test 25a: Crosstalk ratio (IEC 60512-25-1:2001) | |
| Signal integrity | IEC 60512-25-1 (2001-07) | Connectors for electronic equipment - Tests and measurements - Part 25-1: Test 25a; Crosstalk ratio | |
| Signal integrity | DIN EN 60512-25-2 (2002-12) | Connectors for electronic equipment - Tests and measurements - Part 25-2: Test 25b: Attenuation (insertion loss) (IEC 60512-25-2:2002) | |
| Signal integrity | IEC 60512-25-2 (2002-03) | Connectors for electronic equipment - Tests and measurements - Part 25-2: Test 25b - Attenuation (insertion loss) | |
| Signal integrity | DIN EN 60512-25-3 (2002-08) | Connectors for electronic equipment - Tests and measurements - Part 25-3: Test 25c: Rise time degradation (IEC 60512-25-3:2001) | |
| Signal integrity | IEC 60512-25-3 (2001-07) | Connectors for electronic equipment - Tests and measurements - Part 25-3: Test 25c; Rise time degradation | |
| Signal integrity | DIN EN 60512-25-4 (2002-08) | Connectors for electronic equipment - Tests and measurements - Part 25-4: Test 25d: Propagation delay (IEC 60512-25-4:2001) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | IEC 60512-25-4 (2001-07) | Connectors for electronic equipment - Tests and measurements - Part 25-4: Test 25d; Propagation delay | |
| Signal integrity | DIN EN 60512-25-5 (2005-05) | Connectors for electronic equipment - Tests and measurements - Part 25-5: Test 25e - Return loss (IEC 60512-25-5:2004) | |
| Signal integrity | IEC 60512-25-5 (2004-07) | Connectors for electronic equipment - Tests and measurements - Part 25-5: Test 25e - Return loss | |
| Signal integrity | DIN EN 60512-25-7 (2005-12) | Connectors for electronic equipment - Tests and measurements - Part 25-7: Test 25g - Impedance, reflection coefficient and standing voltage wave ratio (VSWR) (IEC 60512-25-7:2004) | |
| Signal integrity | IEC 60512-25-7 (2004-12) | Connectors for electronic equipment - Tests and measurements - Part 25-7: Test 25g: Impedance, reflection coefficient, and voltage standing wave ratio (VSWR) | |
| Signal integrity | DIN EN 60512-25-9 (2009-08) | Connectors for electronic equipment - Tests and measurements - Part 25-9: Signal integrity tests - Test 25i: Alien crosstalk (IEC 60512-25-9:2008) | |
| Signal integrity | IEC 60512-25-9 (2008-08) | Connectors for electrical equipment - Tests and measurements - Part 25-9: Signal integrity tests - Test 25i: Alien crosstalk | |
| Signal integrity | DIN EN 60512-26-100 (2011-12) | Connectors for electronic equipment - Tests and measurements - Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 - Tests 26a to 26g (IEC 60512-26-100:2008 + A1:2011) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | IEC 60512-26-100 (2008-07) | Connectors for electronic equipment - Tests and measurements - Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 - Tests 26a to 26g | |
| Signal integrity | IEC 60512-26-100 AMD 1 (2011-03) | Connectors for electronic equipment - Tests and measurements - Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 - Tests 26a to 26g | |
| Signal integrity | DIN EN 60512-27-100 (2012-09) | Connectors for electronic equipment - Tests and measurements - Part 27-100: Signal integrity tests up to 500 MHz on IEC 60603-7 series connectors - Tests 27a to 27g (IEC 60512-27-100:2011) | |
| Signal integrity | IEC 60512-27-100 (2011-12) | Connectors for electronic equipment - Tests and measurements - Part 27-100: Signal integrity tests up to 500 MHz on IEC 60603-7 series connectors - Tests 27a to 27g | |
| Signal integrity | DIN EN IEC 60512-28-100:2020-08 | Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g (IEC 60512-28-100:2019) | |
| Signal integrity | IEC 60512-28-100 (2019-11) | Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2000 MHz - Tests 28a to 28g | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | DIN EN 60512-29-100 (2016-03) | Connectors for electronic equipment - Tests and measurements - Part 29-100: Signal integrity tests up to 500 MHz on M12 style connectors - Tests 29a to 29g (IEC 60512-29-100:2015) | |
| Signal integrity | IEC 60512-29-100 (2015-03) | Connectors for electronic equipment - Tests and measurements - Part 29-100: Signal integrity tests up to 500 MHz on M12 style connectors - Tests 29a to 29g | |
| Signal integrity | IEC 61156-1 Edition 3.1 (2009-10) | Multicore and symmetrical pair/quad cables for digital communication - Part 1: Generic specification | only chapter 6.2.7, 6.2.8, 6.3 |
| Signal integrity | DIN EN 61935-1 (2010-07) | Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in the standards series EN 50173 (IEC 61935-1:2009, modified) | Limitation of the frequency range up to 1.3 GHz for differential measurements with baluns |
| Signal integrity | DIN EN 61935-1 Berichtigung 1 (2012-07) | Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in the standards series EN 50173 (IEC 61935 1:2009, modified) | Limitation of the frequency range up to 1.3 GHz for differential measurements with baluns |
| Signal integrity | IEC 61935-1 (2019-09) | Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in ISO/IEC 11801-1 and related standards | Limitation of the frequency range up to 1.3 GHz for differential measurements with baluns |
| Signal integrity | DIN EN 61935-2 (2011-06) | Specification for the testing of balanced and coaxial information technology cabling - Part 2: Cords as specified in ISO/IEC 11801 and related standards (IEC 61935-2:2010) | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | IEC 61935-2 (2010-07) | Specification for the testing of balanced and coaxial information technology cabling - Part 2: Cords as specified in ISO/IEC 11801 and related standards | |
| Signal integrity | IEC 62153-4-3 (2013-10) | Metallic communication cable test methods - Part 4-3: Electromagnetic Compatibility (EMC) - Surface transfer impedance - Triaxial method | |
| Signal integrity | IEC 62153-4-5 (2006-03) | Metallic communication cable test methods - Part 4-5: Electromagnetic compatibility (EMC) - Coupling or screening attenuation - Absorbing clamp method | |
| Signal integrity | IEC 62153-4-6 (2017-08) | Metallic cables and other passive components test methods - Part 4-6: Electromagnetic compatibility (EMC) - Surface transfer impedance - Line injection method | |
| Signal integrity | DIN EN 62153-4-7 (2018-12) | Metallic communication cable test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance ZT and screening attenuation as or coupling attenuation ac of connectors and assemblies up to and above 3 GHz - Triaxial tube in tube method (IEC 62153-4-7:2015 + COR1:2016 + A1:2018) | |
| Signal integrity | IEC 62153-4-7 (2015-12) | Metallic communication cable test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance ZT and screening attenuation as or coupling attenuation aC of connectors and assemblies up to and above 3 GHz - Triaxial tube in tube method | |

| Type of test | Standard or test method / version | Title of the standard or test method | Restriction of the test method |
|---|---|---|---|
| Signal integrity | IEC 62153-4-11 (2009-08) | Metallic communication cable test methods - Part 4-11: Electromagnetic compatibility (EMC) - Coupling attenuation or screening attenuation of patched cords, coaxial cable assemblies, pre-connectorised cables - Absorbing clamp method | |
| Signal integrity | IEC 62153-4-12 (2009-08) | Metallic communication cable test methods - Part 4-12: Electromagnetic compatibility (EMC) - Coupling attenuation or screening attenuation of connecting hardware - Absorbing clamp method | |
| **6. Geometrical measurement** | | | |
| Geometrical measurement | HWN 121.00.17 (11-2021) | Method for testing geometric product characteristics | **No Flexible Accreditation Category 3** |

**Abbreviations used:**

DIN Deutsches Institut für Normung e.V.
NDS In house method of the CAB