

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12148-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 2019-03-20 to 2022-09-14 Date of issue: 2019-03-20

Holder of certificate:

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

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 laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates.

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

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|---|-----------------------------------|---|--|
| 2 Electrical engineering | | | |
| 2.1 Basic standards | | | |
| Electrical engineering, Environmental tests | IEC 60529 (08-2013) | Degrees of protection provided by enclosures (IP Code) | except IPX1 and IPX2 |
| | DIN EN 60529 (09-2014) | Degrees of protection provided by enclosures (IP Code) | |
| Electrical engineering, Environmental tests | IEC 61373 (05-2010) | Railway applications - Rolling stock equipment - Shock and vibration tests | |
| | DIN EN 61373 (04-2011) | Railway applications - Rolling stock equipment - Shock and vibration tests | |
| Electrical engineering | DIN EN 50155 (05-2018) | Railway applications. Electronic equipment used on rolling stock | Limitation for Low temperature start-up test -> Test possible with induced air movement only |
| | BS EN 50155 (10-2017) | Railway applications. Electronic equipment used on rolling stock | Limitation for Low temperature start-up test -> Test possible with induced air movement only |
| Electrical engineering | DIN EN 50467 (10-2012) | Railway applications - Rolling stock - Electrical connectors, requirements and test methods | |

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|---|---|--|---------------------------------|
| Electrical engineering | IEC 60999-1 (11-1999) DIN EN 60999-1 (12-2000) | 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 mm ² up to 35 mm ² (included) 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 mm ² up to 35 mm ² (included) | |
| Electrical engineering | DIN EN 60999-2 (05-2003) DIN EN 60999-2 (04-2004) | 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 mm ² up to 300 mm ² (included) 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 mm ² up to 300 mm ² (included) | |
| Electrical engineering | DIN EN 3497 (12-2001) | Metallic coatings - Measurement of coating thickness - X-ray spectrometric methods (ISO 3497:2000) | |
| Electrical engineering, Environmental tests | DIN EN ISO 9227 (09-2012) | Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2012) | |
| Electrical engineering | IEC 62137-1-2 (07-2007) DIN EN 62137-1-2 (02-2008) | Surface mounting technology – Environmental and endurance test methods for surface mount solder joint – Part 1-2: Shear strength test Surface mounting technology – Environmental and endurance test methods for surface mount solder joint – Part 1-2: Shear strength test | |

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|---|-----------------------------------|---|---------------------------------|
| Electrical engineering, Environmental tests | DIN EN ISO 6270-2 (04-2018) | Paints and varnishes - Determination of resistance to humidity - Part 2: Procedure for exposing test specimens in condensation-water atmospheres | |
| Electrical engineering | IEC 60512-1-1 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination | |
| | DIN EN 60512-1-1 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination | |
| Electrical engineering | IEC 60512-1-2 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass | |
| | DIN EN 60512-1-2 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass | |
| Electrical engineering | IEC 60512-1-3 (07-1997) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length | |
| | DIN EN 60512-1-3 (02-1998) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length | |
| Electrical engineering | IEC 60512-1-4 (07-1997) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof) | |
| | DIN EN 60512-1-4 (04-1998) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof) | |

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|------------------------|-----------------------------------|---|---------------------------------|
| Electrical engineering | IEC 60512-2-1 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - millivolt level method | |
| | DIN EN 60512-2-1 (01-2003) | 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 | IEC 60512-2-2 (05-2003) | Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests, Test 2b: Contact resistance, Specified test current method | |
| | DIN EN 60512-2-2 (01-2004) | Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests, Test 2b: Contact resistance, Specified test current method | |
| Electrical engineering | IEC 60512-2-3 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 2-3: Electrical continuity and contact resistance tests - Test 2c: Contact resistance variation | |
| | DIN EN 60512-2-3 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 2-3: Electrical continuity and contact resistance tests - Test 2c: Contact resistance variation | |
| Electrical engineering | IEC 60512-2-5 (05-2003) | Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance | |
| | DIN EN 60512-2-5 (01-2004) | Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance | |

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|------------------------|-----------------------------------|--|---|
| Electrical engineering | IEC 60512-2-6 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 2-6: Electrical continuity and contact resistance tests - Test 2f: Housing (shell) electrical continuity | only procedures according to DIN EN 60512-2-2 |
| | DIN EN 60512-2-6 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 2-6: Electrical continuity and contact resistance tests - Test 2f: Housing (shell) electrical continuity | |
| Electrical engineering | IEC 60512-3-1 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance | |
| | DIN EN 60512-3-1 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance | |
| Electrical engineering | IEC 60512-4-1 (05-2003) | Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof | |
| | DIN EN 60512-4-1 (01-2004) | Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof | |
| Electrical engineering | IEC 60512-5-1 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests - Test 5a: Temperature rise | |
| | DIN EN 60512-5-1 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests - Test 5a: Temperature rise | |
| Electrical engineering | IEC 60512-5-2 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating | |
| | DIN EN 60512-5-2 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating | |

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| Electrical engineering, Environmental tests | IEC 60512-6-3 (02-2002) DIN EN 60512-6-3 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock | |
| Electrical engineering, Environmental tests | IEC 60512-6-4 (02-2002) DIN EN 60512-6-4 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal) Ste Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal) | |
| Electrical engineering, Environmental tests | IEC 60512-6-5 (10-1997) DIN EN 60512-6-5 (10-2000) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests - Section 5: Test 6e: Random vibration Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 6: Dynamic stress tests - Section 5: Test 6e: Random vibration | |
| Electrical engineering, Environmental tests | IEC 60512-7-1 (03-2010) DIN EN60512-7-1 (12-2010) | Connectors for electronic equipment - Tests and measurements, Part 7-1: Impact tests (free connectors) - Test 7a: Free fall (repeated) Connectors for electronic equipment - Tests and measurements, Part 7-1: Impact tests (free connectors) - Test 7a: Free fall (repeated) | |
| Electrical engineering | IEC 60512-7-2 (11-2011) DIN EN60512-7-2 (09-2012) | Connectors for electronic equipment - Tests and measurements, Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact Connectors for electronic equipment - Tests and measurements, Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact | |
| Electrical engineering | IEC 60512-8-1 (06-2010) DIN EN 60512-8-1 (06-2011) | Connectors for electronic equipment - Tests and measurement, Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse Connectors for electronic equipment - Tests and measurement, Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse | |

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| Electrical engineering | IEC 60512-8-2 (04-2011) | Connectors for electronic equipment - Tests and measurements, Part 8-2: Static load tests (fixed connectors) - Test 8b: Static load, axial | |
| | DIN EN 60512-8-2 (02-2012) | Connectors for electronic equipment - Tests and measurements, Part 8-2: Static load tests (fixed connectors) - Test 8b: Static load, axial | |
| Electrical engineering | IEC 60512-8-3 (01-2018) | Connectors for electronic equipment - Tests and measurements, Part 8-3: Static load tests (fixed connectors) - Test 8c: Robustness of actuating lever | |
| | DIN EN 60512-8-3 (02-2012) | Connectors for electronic equipment - Tests and measurements, Part 8-3: Static load tests (fixed connectors) - Test 8c: Robustness of actuating lever | |
| Electrical engineering | IEC 60512-9-1 (03-2010) | Connectors for electronic equipment - Tests and measurements, Part 9-1: Endurance tests - Test 9a: Mechanical operation | |
| | DIN EN 60512-9-1 (12-2010) | Connectors for electronic equipment - Tests and measurements, Part 9-1: Endurance tests - Test 9a: Mechanical operation | |
| Electrical engineering | IEC 60512-9-2 (11-2011) | Connectors for electronic equipment - Tests and measurements, Part 9-2: Endurance tests - Test 9b: Electrical load and temperature | |
| | DIN EN 60512-9-2 (09-2012) | Connectors for electronic equipment - Tests and measurements, Part 9-2: Endurance tests - Test 9b: Electrical load and temperature | |
| Electrical engineering | IEC 60512-9-3 (06-2011) | Connectors for electronic equipment - Tests and measurements, Part 9-3: Endurance tests - Test 9c: Mechanical operation (engaging/separating) with electrical load | |
| | DIN EN 60512-9-3 (04-2012) | Connectors for electronic equipment - Tests and measurements, Part 9-3: Endurance tests - Test 9c: Mechanical operation (engaging/separating) with electrical load | |

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| Electrical engineering | IEC 60512-9-4 (04-2011) | Connectors for electronic equipment - Tests and measurements, Part 9-4: Endurance tests - Test 9d: Durability of contact retention system and seals (maintenance, ageing) | |
| | DIN EN 60512-9-4 (02-2012) | 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 | IEC 60512-9-5 (03-2010) | Connectors for electronic equipment - Tests and measurements, Part 9-5: Endurance tests - Test 9e: Current loading, cyclic | |
| | DIN EN 60512-9-5 (12-2010) | Connectors for electronic equipment - Tests and measurements, Part 9-5: Endurance tests - Test 9e: Current loading, cyclic | |
| Electrical engineering | IEC 60512-10-4 (08-2003) | Connectors for electronic equipment - Tests and measurements - Part 10-4: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests - Test 10d: Electrical overload (connectors) | switching time: from 1s |
| | DIN EN 60512-10-4 (06-2004) | Connectors for electronic equipment - Tests and measurements - Part 10-4: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests - Test 10d: Electrical overload (connectors) | |
| Electrical engineering, Environmental tests | IEC 60512-11-1 (11-1995) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 11: Climatic tests - Section 1: Test 11a - Climatic sequence | |
| | DIN EN 60512-11-1 (08-1999) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 11: Climatic tests - Section 1: Test 11a - Climatic sequence | |
| Electrical engineering, Environmental tests | IEC 60512-11-3 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state | |
| | DIN EN 60512-11-3 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state | |

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| Electrical engineering, Environmental tests | IEC 60512-11-4 (02-2002) DIN EN 60512-11-4 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature | |
| Electrical engineering, Environmental tests | IEC 60512-11-6 (02-2002) DIN EN 60512-11-6 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests - Test 11f: Corrosion, salt mist Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests - Test 11f: Corrosion, salt mist | |
| Electrical engineering, Environmental tests | IEC 60512-11-7 (05-2003) DIN EN 60512-11-7 (06-2004) | Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test | |
| Electrical engineering, Environmental tests | IEC 60512-11-9 (02-2002) DIN EN 60512-11-9 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat | |
| Electrical engineering, Environmental tests | IEC 60512-11-10 (02-2002) DIN EN 60512-11-10 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold | |
| Electrical engineering, Environmental tests | IEC 60512-11-11 (02-2002) DIN EN 60512-11-11 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests - Test 11k: Low air pressure Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests - Test 11k: Low air pressure | |

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|---|-----------------------------------|--|---------------------------------|
| Electrical engineering, Environmental tests | IEC 60512-11-12 (02-2002) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic | |
| | DIN EN 60512-11-12 (01-2003) | Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic | |
| Electrical engineering | IEC 60512-12-1 (03-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-1: Soldering tests - Test 12a: Solderability, wetting, solder bath method | |
| | DIN EN 60512-12-1 (11-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-1: Soldering tests - Test 12a: Solderability, wetting, solder bath method | |
| Electrical engineering | IEC 60512-12-2 (02-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-2: Soldering tests - Test 12b: Solderability, wetting, soldering iron method | |
| | DIN EN 60512-12-2 (11-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-2: Soldering tests - Test 12b: Solderability, wetting, soldering iron method | |
| Electrical engineering | IEC 60512-12-3 (02-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-3: Soldering tests - Test 12c: Solderability, de-wetting | |
| | DIN EN 60512-12-3 (11-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-3: Soldering tests - Test 12c: Solderability, de-wetting | |
| Electrical engineering | IEC 60512-12-4 (02-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-4: Soldering tests - Test 12d: Resistance to soldering heat, solder bath method | |
| | DIN EN 60512-12-4 (11-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-4: Soldering tests - Test 12d: Resistance to soldering heat, solder bath method | |
| Electrical engineering | IEC 60512-12-5 (02-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-5: Soldering tests - Test 12e: Resistance to soldering heat, soldering iron method | |
| | DIN EN 60512-12-5 (11-2006) | Connectors for electronic equipment - Tests and measurements, Part 12-5: Soldering tests - Test 12e: Resistance to soldering heat, soldering iron method | |

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|---|-----------------------------------|--|---------------------------------|
| Electrical engineering | IEC 60512-12-7 (01-2001) | Connectors for electronic equipment - Tests and measurements - Part 12-7: Soldering tests - Test 12g: Solderability, wetting balance method | |
| | DIN EN 60512-12-7 (11-2001) | Connectors for electronic equipment - Tests and measurements - Part 12-7: Soldering tests - Test 12g: Solderability, wetting balance method | |
| Electrical engineering | IEC 60512-13-1 (02-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces | |
| | DIN EN 60512-13-1 (11-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces | |
| Electrical engineering | IEC 60512-13-2 (02-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces | |
| | DIN EN 60512-13-2 (11-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces | |
| Electrical engineering | IEC 60512-13-5 (02-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method | |
| | DIN EN 60512-13-5 (11-2006) | Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method | |
| Electrical engineering, Environmental tests | IEC 60512-14-7 (10-1997) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water | |
| | DIN EN 60512-14-7 (07-1998) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water | |

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| Electrical engineering | IEC 60512-15-1 (05-2008) DIN EN 60512-15-1 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert | |
| Electrical engineering | IEC 60512-15-2 (01-2018) DIN EN 60512-15-2 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-2: Connector tests (mechanical) - Test 15b: Insert retention in housing (axial) Connectors for electronic equipment - Tests and measurements - Part 15-2: Connector tests (mechanical) - Test 15b: Insert retention in housing (axial) | |
| Electrical engineering | IEC 60512-15-3 (05-2008) DIN EN 60512-15-3 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-3: Connector tests (mechanical) - Test 15c: Insert retention in housing (torsional) Connectors for electronic equipment - Tests and measurements - Part 15-3: Connector tests (mechanical) - Test 15c: Insert retention in housing (torsional) | |
| Electrical engineering | IEC 60512-15-4 (05-2008) DIN EN 60512-15-4 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-4: Connector tests (mechanical) - Test 15d: Contact insertion, release and extraction force Connectors for electronic equipment - Tests and measurements - Part 15-4: Connector tests (mechanical) - Test 15d: Contact insertion, release and extraction force | |
| Electrical engineering | IEC 60512-15-5 (05-2008) DIN EN 60512-15-5 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-5: Connector tests (mechanical) - Test 15e: Contact retention in insert, cable nutation Connectors for electronic equipment - Tests and measurements - Part 15-5: Connector tests (mechanical) - Test 15e: Contact retention in insert, cable nutation | |

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| Electrical engineering | IEC 60512-15-6 (05-2008) | Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices | |
| | DIN EN 60512-15-6 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices | |
| Electrical engineering | IEC 60512-15-7 (05-2008) | Connectors for electronic equipment - Tests and measurements - Part 15-7: Connector tests (mechanical) - Test 15g: Robustness of protective cover attachment | |
| | DIN EN 60512-15-7 (03-2009) | Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren, Teil 15-7: Mechanische Prüfungen an Steckverbindern - Prüfung 15g: Widerstandsfähigkeit der Schutzkappe mit Befestigung | |
| Electrical engineering | IEC 60512-16-1 (06-2008) | Connectors for electronic equipment - Tests and measurements - Part 16-1: Mechanical tests on contacts and terminations - Test 16a: Probe damage | |
| | DIN EN 60512-16-1 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-1: Mechanical tests on contacts and terminations - Test 16a: Probe damage | |
| Electrical engineering | IEC 60512-16-2 (06-2008) | Connectors for electronic equipment - Tests and measurements - Part 16-2: Mechanical tests on contacts and terminations - Test 16b: Restricted entry | |
| | DIN EN 60512-16-2 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-2: Mechanical tests on contacts and terminations - Test 16b: Restricted entry | |

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| Electrical engineering | IEC 60512-16-3 (06-2008) DIN EN 60512-16-3 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-3: Mechanical tests on contacts and terminations - Test 16c: Contact-bending strength Connectors for electronic equipment - Tests and measurements - Part 16-3: Mechanical tests on contacts and terminations - Test 16c: Contact-bending strength | |
| Electrical engineering | IEC 60512-16-4 (06-2008) DIN EN 60512-16-4 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-4: Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections) Connectors for electronic equipment - Tests and measurements - Part 16-4: Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections) | |
| Electrical engineering | IEC 60512-16-5 (07-2008) DIN EN 60512-16-5 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-5: Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts) 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 | IEC 60512-16-6 (07-2008) DIN EN 60512-16-6 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-6: Mechanical tests on contacts and terminations - Test 16f: Robustness of terminations Connectors for electronic equipment - Tests and measurements - Part 16-6: Mechanical tests on contacts and terminations - Test 16f: Robustness of terminations | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|------------------------|---|--|---------------------------------|
| Electrical engineering | IEC 60512-16-8 (05-2008) DIN EN 60512-16-8 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-8: Mechanical tests on connections and terminations - Test 16h: Insulating grip effectiveness (crimped connections) Connectors for electronic equipment - Tests and measurements - Part 16-8: Mechanical tests on connections and terminations - Test 16h: Insulating grip effectiveness (crimped connections) | |
| Electrical engineering | IEC 60512-16-11 (05-2008) DIN EN 60512-16-11 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-11: Mechanical tests on contacts and terminations - Test 16k: Stripping force, solderless wrapped connections 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 | IEC 60512-16-13 (05-2008) DIN EN 60512-16-13 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-13: Mechanical tests on contacts and terminations - Test 16m: Unwrapping, solderless wrapped connections Connectors for electronic equipment - Tests and measurements - Part 16-13: Mechanical tests on contacts and terminations - Test 16m: Unwrapping, solderless wrapped connections | |
| Electrical engineering | IEC 60512-16-14 (07-2008) DIN EN 60512-16-14 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-14: Mechanical tests on contacts and terminations - Test 16n: Bending strength, fixed male tabs Connectors for electronic equipment - Tests and measurements - Part 16-14: Mechanical tests on contacts and terminations - Test 16n: Bending strength, fixed male tabs | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|------------------------|---|--|---------------------------------|
| Electrical engineering | IEC 60512-16-16 (07-2008) DIN EN 60512-16-16 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-16: Mechanical tests on contacts and terminations - Test 16p: Torsional strength, fixed male tabs 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 | IEC 60512-16-17 (07-2008) DIN EN 60512-16-17 (03-2009) | 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 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 | IEC 60512-16-18 (05-2008) DIN EN 60512-16-18 (03-2009) | Connectors for electronic equipment - Tests and measurements - Part 16-18: Mechanical tests on contacts and terminations - Test 16r: Deflection of contacts, simulation Connectors for electronic equipment - Tests and measurements - Part 16-18: Mechanical tests on contacts and terminations - Test 16r: Deflection of contacts, simulation | |
| Electrical engineering | IEC 60512-17-1 (06-2006) DIN EN 60512-17-1 (06-2011) | Connectors for electronic equipment - Tests and measurements, Part 17-1: Cable clamping tests - Test 17a: Cable clamp robustness Connectors for electronic equipment - Tests and measurements, Part 17-1: Cable clamping tests - Test 17a: Cable clamp robustness | |
| Electrical engineering | IEC 60512-17-2 (04-2011) DIN EN 60512-17-2 (02-2012) | Connectors for electronic equipment - Tests and measurements, Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation Connectors for electronic equipment - Tests and measurements, Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|------------------------|--|--|---------------------------------|
| Electrical engineering | IEC 60512-17-3 (06-2010) DIN EN 60512-17-3 (06-2011) | Connectors for electronic equipment - Tests and measurements, Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile) 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) | |
| Electrical engineering | IEC 60512-17-4 (06-0210) DIN EN 60512-17-4 (06-2011) | Connectors for electronic equipment - Tests and measurements, Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion Connectors for electronic equipment - Tests and measurements, Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion | |
| Electrical engineering | IEC 60512-19-3 (07/1997) DIN EN 60512-19-3 (03-1998) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests - Section 3: Test 19c - Fluid resistance Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests - Section 3: Test 19c - Fluid resistance | |
| Electrical engineering | IEC 60512-16-20 (071996) DIN EN 60512-16-20 (03-1997) | 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) 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 | UL 1977 (2016) | Component Connectors for Use in Data, Signal, Control and Power Applications | |
| Electrical engineering | ISO 22309 (19-2011) | Microbeam analysis. Quantitative analysis using energy-dispersive spectrometry (EDS) for elements with an atomic number of 11 (Na) or above | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|---|--|--|----------------------------------|
| Electrical engineering | ISO 15632 (08-2012) | Microbeam analysis - Instrumental specification for energy dispersive X-ray spectrometers with semiconductor detectors | |
| Electrical engineering | DIN EN ISO 9220 (01-1995) | Metallic coatings - Measurement of coating thickness - Scanning electron microscope method (ISO 9220:1988) | |
| Electrical engineering | ISO14577-1 (07 2015) | Metallic materials - Instrumented indentation test for hardness and metallic parameters--Part 1:Test method | |
| Electrical engineering | Arbeitsanweisung (01-2017) Standard operating procedure (01-2017) | Dokumentation und Durchführung von REM-, FIB- und EDX-Untersuchungen Working procedure for SEM-, FIB- and EDX analysis | No flexible accreditation Cat. 3 |
| Electrical engineering | IEC 60512-99-001 (08-2012) DIN EN 60512-99-001 (05-2013) | 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 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 | ISO 2409 (02-2013) DIN EN ISO 2409 (06-2013) | Paints and varnishes - Cross-cut test Paints and varnishes - Cross-cut test | |
| Electrical engineering, Environmental tests | ISO 9227 (05-2012) | Corrosion tests in artificial atmospheres - Salt spray tests | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|---|---|--|---------------------------------|
| Electrical engineering, Environmental tests | ISO 6270-2 (11-2017) | Paints and varnishes - Determination of resistance to humidity - Part 2: Procedure for exposing test specimens in condensation-water atmospheres | |
| Electrical engineering, Environmental tests | ISO 6988 (02-1985) | Metallic and other non-organic coatings - Sulfur dioxide test with general condensation of moisture | |
| Electrical engineering, Environmental tests | ISO 4892-2 (03-2013) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps | |
| Electrical engineering, Environmental tests | ISO 1431-1 (08-2012) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing | |
| 2.2 Product family standards | | | |
| Electrical engineering | IEC 61984 (10-2008) DIN EN 61984 (11-2009) | Connectors - Safety requirements and tests Connectors - Safety requirements and tests | |
| Electrical engineering | IEC 61076-3-118 (04-2010) DIN EN 61076-3-118 (06-2012) | Connectors for electronic equipment - Product requirements, Part 3-118: Rectangular connectors - Detail specification for a 4 pole plus PE power connector with push-pull coupling Connectors for electronic equipment - Product requirements, Part 3-118: Rectangular connectors - Detail specification for a 4 pole plus PE power connector with push-pull coupling | |
| Electrical engineering | DIN 41626-1 (10-1989) | Special contacts for multi two-part connectors; contacts for high current (type H); dimensions, ratings, requirements, tests | |
| Electrical engineering | DIN 41626-2 (10-1989) | Special contacts for multi two-part connectors; concentric contacts (type C); dimensions, ratings, requirements, tests | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|------------------------|-----------------------------------|--|---------------------------------|
| Electrical engineering | IEC 60352-1 (08-1997) | Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-1 (04-1984) | Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-2 (02-2006) | Solderless connections. Part 2: Solderless crimped connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-2 (11-2006) | Solderless connections. Part 2: Solderless crimped connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-3 (02-1993) | Solderless connections - Part 3: Solderless accessible insulation displacement connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-3 (05-1995) | Solderless connections - Part 3: Solderless accessible insulation displacement connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-4 (04-1994) | Solderless connections - Part 4: Solderless non-accessible insulation displacement connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-4 (09-2001) | Solderless connections - Part 4: Solderless non-accessible insulation displacement connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-5 (02-2012) | Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-5 (11-2008) | Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance | |
| Electrical engineering | IEC 60352-6 (08-1997) | Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-6 (03-1998) | Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|------------------------------|-----------------------------------|---|---------------------------------|
| Electrical engineering | IEC 60352-7 (08-2002) | Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance | |
| | DIN EN 60352-7 (07-2003) | Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance | |
| Electrical engineering | BS EN 50467 (01-2012) | Railway applications - Rolling stock - Electrical connectors, requirements and test methods | |
| | DIN EN 50467 (10-2012) | Railway applications - Rolling stock - Electrical connectors, requirements and test methods | |
| 3 Environmental tests | | | |
| 3.1 Basic standards | | | |
| Environmental tests | IEC 60068-2-1 (03-2007) | Environmental testing - Part 2: Test A: Cold | |
| | DIN EN 60068-2-1 (01-2008) | Environmental testing - Part 2: Test A: Cold | |
| Environmental tests | IEC 60068-2-2 (07-2007) | Environmental testing - Part 2: Test B: Dry heat | |
| | DIN EN 60068-2-2 (05/2008) | Environmental testing - Part 2: Test B: Dry heat | |
| Environmental tests | IEC 60068-2-6 (12-2007) | Environmental testing - Part 2: Tests - Test Fc: Vibration (sinusoidal) | |
| | DIN EN 60068-2-6 (10-2008) | Environmental testing - Part 2: Tests - Test Fc: Vibration (sinusoidal) | |
| Environmental tests | IEC 60068-2-11 (01-1981) | Environmental testing - Part 2: Test Ka: Salt mist | |
| | DIN EN 60068-2-11 (02-2000) | Environmental testing - Part 2: Test Ka: Salt mist | |
| Environmental tests | IEC 60068-2-14 (01-2009) | Environmental testing - Part 2: Test N: Change of temperature | only methods Na and Nb |
| | DIN EN 60068-2-14 (04-2010) | Environmental testing - Part 2: Test N: Change of temperature | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|---------------------|-----------------------------------|---|---------------------------------------|
| Environmental tests | IEC 60068-2-20 (07-2008) | Environmental testing, Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads | |
| | DIN EN 60068-2-20 (02-2009) | Environmental testing, Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads | |
| Environmental tests | IEC 60068-2-21 (06-2006) | Environmental testing - Part 2: Test U: Robustness of terminations and integral mounting devices | |
| | DIN EN 60068-2-21 (01-2007) | Environmental testing - Part 2: Test U: Robustness of terminations and integral mounting devices | |
| Environmental tests | IEC 60068-2-27 (02-2008) | Environmental testing - Part 2: Test Ea and guidance: Shock | |
| | DIN EN 60068-2-27 (02-2010) | Environmental testing - Part 2: Test Ea and guidance: Shock | |
| Environmental tests | IEC 60068-2-30 (05-2008) | Environmental testing - Part 2: Tests. Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle) | |
| | DIN EN 60068-2-30 (06-2006) | Environmental testing - Part 2: Tests. Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle) | |
| Environmental tests | IEC 60068-2-38 (01-2009) | Environmental testing - Part 2: Tests. Test Z/AD: Composite temperature/humidity cyclic test | |
| | DIN EN 60068-2-38 (06-2010) | Environmental testing - Part 2: Tests. Test Z/AD: Composite temperature/humidity cyclic test | |
| Environmental tests | IEC 60068-2-52 (11-2017) | Environmental testing - Part 2: Tests - Test Kb: Salt mist, cyclic (sodium, chloride solution) | |
| | DIN EN 60068-2-52 (10-1996) | Environmental testing - Part 2: Tests - Test Kb: Salt mist, cyclic (sodium, chloride solution) | |
| Environmental tests | IEC 60068-2-54 (04-2006) | Environmental testing. Part 2: Tests. Test Ta: Soldering - Solderability testing by the wetting balance method | |
| | DIN EN 60068-2-54 (01-2007) | Environmental testing. Part 2: Tests. Test Ta: Soldering - Solderability testing by the wetting balance method | merged in DIN EN 60068-2-69 (2018-01) |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|---------------------|---|--|---------------------------------------|
| Environmental tests | IEC 60068-2-60 (06-2015) DIN EN 60068-2-60 (06-2016) | Environmental testing - Part 2: Tests - Test Ke: Flowing mixed gas corrosion test Environmental testing - Part 2: Tests - Test Ke: Flowing mixed gas corrosion test | merged in DIN EN 60068-2-69 (2018-01) |
| Environmental tests | IEC 60068-2-61 (07-1991) DIN EN 60068-2-61 (12-1993) | Environmental testing - Part 2: Test methods - Test Z/ABDM: Climatic sequence Environmental testing - Part 2: Test methods - Test Z/ABDM: Climatic sequence | |
| Environmental tests | IEC 60068-2-64 (04-2008) DIN EN 60068-2-64 (04-2009) | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance | |
| Environmental tests | IEC 60068-2-67 (12-1995) DIN EN 60068-2-67 (07-1996) | Environmental testing - Part 2: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components Environmental testing - Part 2: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components | |
| Environmental tests | DIN EN 60068-2-69 (01-2018) | Environmental testing - Part 2-69: Tests - Test Te: Solderability testing of electronic components for surface mounting devices (SMD) by the wetting balance method | Only chapter 8: Soldering method |
| Environmental tests | IEC 60068-2-70 (12-1995) DIN EN 60068-2-70 (07-1996) | Environmental testing - Part 2: Tests - Test Xb: Abrasion of marking and letterings caused by rubbing of fingers and hands Environmental testing - Part 2: Tests - Test Xb: Abrasion of marking and letterings caused by rubbing of fingers and hands | |
| Environmental tests | IEC 60068-2-78 (08-2001) DIN EN 60068-2-78 (09-2002) | Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|----------------------------|-----------------------------------|---|---|
| Environmental tests | IEC 60068-2-5 (04-2018) | Environmental testing - Part 2-5: Tests - Test Sa: Simulated solar radiation at ground level and guidance for solar radiation testing | |
| | DIN EN 60068-2-5 (10-2011) | Environmental testing - Part 2-5: Tests - Test Sa: Simulated solar radiation at ground level and guidance for solar radiation testing | |
| Environmental tests | DIN EN ISO 4892-1 (10-2016) | Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 4892-1:2016) | |
| Environmental tests | DIN EN ISO 4892-2 (06-2013) | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 4892-2:2013) | |
| Environmental tests | DIN ISO 1431-1 (05-2011) | Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing (ISO 1431-1:2004 + Amd 1:2009) | |
| Environmental tests | ASTM B117 (2016) | Standard Practice for Operating Salt Spray (Fog) Apparatus | |
| 4 Fibre optics | | | |
| 4.1 Basic standards | | | |
| Fibre optics | IEC 61300-1 (07-2016) | 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 |
| | DIN EN 61300-1 (09-2017) | 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 |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------------------------------|---|--|---------------------------------|
| Fibre optics Environmental tests | IEC 61300-2-1 (08-2009) DIN EN 61300-2-1 (07-2010) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) | |
| Fibre optics | IEC 61300-2-10 (08-2012) DIN EN 61300-2-10 (09-1998) DIN EN 61300-2-10 (04-2013) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance | |
| Fibre optics | IEC 61300-2-12 (07-2009) DIN EN 61300-2-12 (07-2010) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests – Impact Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests – Impact | |
| Fibre optics, Environmental tests | IEC 61300-2-17 (11-2010) DIN EN 61300-2-17 (08- | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests - Cold Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests – Cold | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|-----------------------------------|---|--|---------------------------------|
| Fibre optics, Environmental tests | IEC 61300-2-18 (07-2005) DIN EN 61300-2-18 (04-2006) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance | |
| Fibre optics, Environmental tests | IEC 61300-2-19 (11-2012) DIN EN 61300-2-19 (04-2006) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state) | |
| Fibre optics | IEC 61300-2-2 (01-2009) DIN EN 61300-2-2 (09-2009) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability | |
| Fibre optics, Environmental tests | IEC 61300-2-21 (12-2009) DIN EN 61300-2-21 (08-2010) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test | |
| Fibre optics, Environmental tests | IEC 61300-2-22 (02-2007) DIN EN 61300-2-22 (02-2008) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|-----------------------------------|---|--|---------------------------------|
| Fibre optics, Environmental tests | IEC 61300-2-26 (12-2006) DIN EN 61300-2-26 (02-2008) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist | |
| Fibre optics | IEC 61300-2-4 (06-1995) DIN EN 61300-2-4 (07-1998) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention | |
| Fibre optics | DIN EN 61300-2-35 (07-1998) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-35: Tests - Cable nutation (IEC 61300-2-35:2014) | |
| Fibre optics | IEC 61300-2-42 (02-2014) DIN EN 61300-2-42 (04-2006) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief | |
| Fibre optics | IEC 61300-2-44 (07-2013) DIN EN 61300-2-44 (05-2009) | 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 interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices | |
| Fibre optics | IEC 61300-2-5 (01-2009) DIN EN 61300-2-5 (10-2011) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests – Torsion Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests – Torsion | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------------------------------|---|--|---------------------------------|
| Fibre optics | IEC 61300-2-6 (12-2010) DIN EN 61300-2-6 (08-2011) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism | |
| Fibre optics | IEC 61300-2-7 (05-2013) DIN EN 61300-2-7 (09-1998) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment | |
| Fibre optics, Environmental tests | IEC 61300-2-9 (01-2017) DIN EN 61300-2-9 (10-2017) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests – Shock Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests – Shock | |
| Fibre optics | IEC 61300-3-1 (09-2005) DIN EN 61300-3-1 (06-2006) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements – Visual examination Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements – Visual examination | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|---|--|---------------------------------|
| Fibre optics | IEC 61300-3-3 (03-2009) DIN EN 61300-3-3 (12-2009) | 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 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 optics | IEC 61300-3-6 (12-2008) DIN EN 61300-3-6 (09-2009) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss | |
| Fibre optics | IEC 61300-3-11 (05-1995) DIN EN 61300-3-11 (09-1998) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-11: Examinations and measurements - Engagement and separation forces Lichtwellenleiter – Verbindungselemente und passive Bauteile; Grundlegende Prüf- und Messverfahren – Teil 3-11: Untersuchungen und Messungen – Steck- und Trennkräfte | |
| Fibre optics | IEC 61300-3-22 (12-2010) DIN EN 61300-3-22 (08-2011) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-22: Examinations and measurements – Ferrule compression force Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-22: Examinations and measurements – Ferrule compression force | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|---|--|---------------------------------|
| Fibre optics | IEC 61300-3-34 (01-2009) DIN EN 61300-3-34 (09-2009) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements – Attenuation of random mated connectors Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements – Attenuation of random mated connectors | |
| Fibre optics | IEC 61300-3-4 (12-2012) DIN EN 61300-3-4 (06-2002) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements – Attenuation Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements – Attenuation | |
| Fibre optics | JIS C 6863 (01-1990) | Test Methods for Attenuation of all Plastic Multimode Optical Fibres | |
| Fibre optics | IEC 61280-4-1 (06-2009) DIN EN 61280-4-1 (07-2010) | Fibre-optic communication subsystem test procedures - Part 4-1: Installed cable plant - Multimode attenuation measurement Fibre-optic communication subsystem test procedures - Part 4-1: Installed cable plant - Multimode attenuation measurement | |
| Fibre optics | IEC 61280-4-2 (06-2014) DIN EN 61280-4-2 (05-2015) | Fibre-optic communication subsystem test procedures - Part 4-2: Installed cable plant - Single-mode attenuation and optical return loss measurement Fibre-optic communication subsystem test procedures - Part 4-2: Installed cable plant - Single-mode attenuation and optical return loss measurement | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------------------------------|---|--|---------------------------------|
| Fibre optics | IEC 61300-3-28 (03-2012) DIN EN 61300-3-28 (10-2012) | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements – Transient loss Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements – Transient loss | |
| Fibre optics | IEC 61300-3-35 (06-2015) DIN EN 61300-3-35 (04-2016) | 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 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 | |
| Fibre optics, Environmental tests | IEC 61300-2-46 (07-2006) DIN EN 61300-2-46 (03-2007) | Fibre optic interconnecting devices and passive components - Basic test and procedures - Part 2-46: Tests - Damp heat, cyclic Fibre optic interconnecting devices and passive components - Basic test and procedures - Part 2-46: Tests - Damp heat, cyclic | |
| Fibre optics | IEC 60793-2-40 (11-2015) DIN EN 60793-2-40 (10-2016) | Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres | Appendix I only |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|----------------------------|-----------------------------------|--|--|
| 5 EMC | | | |
| 5.1 Basic standards | | | |
| EMC | DIN EN 61000-4-2 (12-2009) | 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 04-2011) | 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 1GHz – 2,7 GHz: 10 V/m 2,7GHz – 6 GHz: 3 V/m Maximum dimensions of samples: 1.5m x 0.5m |
| EMC | DIN EN 61000-4-4 (04-2013) | 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 (03-2015) | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014) | no test of connecting cables which are unshielded / symmetrically operated No test with pulse shape 10/700 µs |
| EMC | DIN EN 61000-4-6 (08-2014) | 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 (02-2005) | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004) | <i>1-phase only</i> |
| EMC | DIN EN 50155 (03-2008) | Railway applications. Electronic equipment used on rolling stock | Only EMC |
| | BS EN 50155 (10-2017) | Railway applications. Electronic equipment used on rolling stock | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|-------------------------------------|-----------------------------------|--|---------------------------------|
| EMC | DIN EN 55016-2-1 (12-2014) | 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) | |
| EMC | DIN EN 55016-2-3 (11-2014) | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements (CISPR 16-2-3:2010 + A1:2010 + A2:2014) | |
| 5.2 Generic standards | | | |
| EMC | DIN EN 61000-6-1 (10-2007) | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005) | |
| EMC | DIN EN 61000-6-2 (03-2006) | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005) | |
| EMC | DIN EN 61000-6-3 (09-2011) | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010) | |
| EMC | DIN EN 61000-6-4 (09-2011) | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010) | |
| 5.3 Product family standards | | | |
| EMC | DIN EN 61000-3-2 (03-2015) | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase) (IEC 61000-3-2:2014) | <i>1-phase only</i> |
| EMC | DIN EN 61000-3-3 (03-2014) | 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 \leq 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013) | <i>1-phase only</i> |
| EMC | DIN EN 55014-1 (05-2012) | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2005 + A1:2008 + Cor. :2009 + A2:2011) | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--|---|---|---|
| EMC | DIN EN 55014-2 (01-2016) | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015) | |
| EMC | DIN EN 50121-3-2 (11-2017) | Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus | |
| EMC | DIN EN 55032 (02-2016) | Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015) | not C4.2 and C4.3 |
| EMC | DIN EN 55035 (04-2018) | Electromagnetic compatibility of multimedia equipment - Immunity requirements (CIS/1/412/CDV:2012) | |
| 5.4 EMC for telecommunication equipment | | | |
| EMC | DIN EN 302208-1 06-2015) | Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W - Part 1: Technical requirements and methods of measurement | Only chapter 10.1 (procedure 10.2.2.2) and chapter 10.2 |
| 6 Radio Frequency | | | |
| 6.1 Basic standards | | | |
| RF | IEC 60512-25-2 (03-2002) DIN EN 60512-25-2 (12-2002) | Connectors for electronic equipment - Tests and measurements - Part 25-2: Test 25b – (Attenuation) Insertion loss Connectors for electronic equipment - Tests and measurements - Part 25-2: Test 25b – (Attenuation) Insertion loss | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|---|--|---------------------------------|
| RF | IEC 60512-25-3 (07-2001) DIN EN 60512-25-3 (08-2002) | Connectors for electronic equipment - Tests and measurements - Part 25-3: Test 25c - Rise time degradation Connectors for electronic equipment - Tests and measurements - Part 25-3: Test 25c - Rise time degradation | |
| RF | IEC 60512-25-4 (07-2001) DIN EN 60512-25-4 (08-2002) | Connectors for electronic equipment - Tests and measurements - Part 25-4: Test 25d - Propagation delay Connectors for electronic equipment - Tests and measurements - Part 25-4: Test 25d - Propagation delay | |
| RF | IEC 60512-25-5 (07-2004) DIN EN 60512-25-5 (05-2005) | Connectors for electronic equipment - Tests and measurements - Part 25-5: Test 25e – Return loss Connectors for electronic equipment - Tests and measurements - Part 25-5: Test 25e – Return loss | |
| RF | IEC 60512-25-6 (05-2004) DIN EN 60512-25-6 (12-2004) | Connectors for electronic equipment - Tests and measurements - Part 25-6: Test 25f: Eye pattern and jitter Connectors for electronic equipment - Tests and measurements - Part 25-6: Test 25f: Eye pattern and jitter | |
| RF | IEC 60512-25-7 (12-2004) DIN EN 60512-25-7 (12-2005) | Connectors for electronic equipment - Tests and measurements - Part 25-7: Test 25g - Impedance, reflection coefficient, and voltage standing wave ratio (VSWR) Connectors for electronic equipment - Tests and measurements - Part 25-7: Test 25g - Impedance, reflection coefficient, and voltage standing wave ratio (VSWR) | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|---|--|---------------------------------|
| RF | IEC 60512-25-9 (08-2008) DIN EN 60512-25-9 (08-2009) | Connectors for electronic equipment - Tests and measurements, Part 25-9: Signal integrity tests – Test 25i: Alien crosstalk Connectors for electronic equipment - Tests and measurements, Part 25-9: Signal integrity tests – Test 25i: Alien crosstalk | |
| RF | IEC 60512-29-100 (03-2015) DIN EN 60512-29-100 (03-2016) | 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 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 | |
| RF | IEC 60512-23-3 (12-2000) DIN EN 60512-23-3 (11-2001) | Electromechanical components for electronic equipment - Basic testing procedures and measuring methods, Part 23-3: Test 23c: Shielding effectiveness of connectors and accessories Electromechanical components for electronic equipment - Basic testing procedures and measuring methods, Part 23-3: Test 23c: Shielding effectiveness of connectors and accessories | |
| RF | IEC 60512-25-1 (07-2001) DIN EN 60512-25-1 (08-2002) | Connectors for electronic equipment - Tests and measurements - Part 25-1: Test 25a, Crosstalk ratio Connectors for electronic equipment - Tests and measurements - Part 25-1: Test 25a, Crosstalk ratio | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|--|--|---------------------------------|
| RF | IEC 60512-23-7 (01-2005) DIN EN 60512-23-7 (10-2005) | Connectors for electronic equipment - Tests and measurements, Part 23-7: Screening and filtering tests - Test 23g: Effective transfer impedance of connectors Connectors for electronic equipment - Tests and measurements, Part 23-7: Screening and filtering tests - Test 23g: Effective transfer impedance of connectors | |
| RF | IEC 61156-1 (10-2009) | Multicore and symmetrical pair/quad cables for digital communication - Part 1: Generic specification | only chapters 6.2.7, 6.2.8, 6.3 |
| RF | 6.1.1.1.1.1 IEC 60512-26-100 6.1.1.1.1.2 (05-2011) 6.1.1.1.1.3 DIN EN 60512-26-100 6.1.1.1.1.4 (12-2011) | 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 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 | |
| RF | 6.1.1.1.1.5 IEC 60512-27-100 6.1.1.1.1.6 (12-2011) 6.1.1.1.1.7 6.1.1.1.1.8 DIN EN 60512-27-100 6.1.1.1.1.9 (09-2012) | 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 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 | |
| RF | 6.1.1.1.1.10 IEC 60512-28-100 (02-2013) DIN EN 60512-28-100 (2013-09) | Connectors for electrical equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 1000 MHz on 60603-7 and 61076-3 series connectors - Tests 28a to 28g Connectors for electrical equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 1000 MHz on 60603-7 and 61076-3 series connectors - Tests 28a to 28g | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--------------|--|--|---------------------------------|
| RF | 6.1.1.1.2 IEC 61 93 5-1 (12-2015) | Specification for the testing of balanced and coaxial information technology cabling – Part 1: Installed balanced cabling as specified in ISO/IEC 11801 and related standards | |
| RF | DIN EN 61935-1:2009+ Berichtigung:2012 | 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) | |
| RF | 6.1.1.1.3 IEC 61 93 5-2 (07-2010) DIN EN 61935-2 (11-2016) | Specification for the testing of balanced and coaxial information technology cabling – Part 2: Cords as specified in ISO/IEC 11801 and related standards Specification for the testing of balanced and coaxial information technology cabling – Part 2: Cords as specified in ISO/IEC 11801 and related standards | |
| RF | DIN EN 50289-1-6 (12-2002) | Communication cables - Specifications for test methods - Part 1-6: Electrical test methods; Electromagnetic performance | |
| RF | DIN EN 50289-1-14 (12-2004) | Communication cables - Specifications for test methods - Part 1-14: Electrical test methods - Coupling attenuation or screening attenuation of connecting hardware | |
| RF EMC | IEC 62153-4-3 (10-2013) | Metallic communication cables test methods – Part 4-3: Electromagnetic compatibility (EMC) – Surface transfer impedance – Triaxial method | |
| RF EMC | IEC 62153-4-5 (03-2006) | Metallic communication cables test methods – Part 4-5: Electromagnetic compatibility (EMC) – Coupling or screening attenuation – Absorbing clamp method | |
| RF EMC | IEC 62153-4-6 (08-2017) | Metallic communication cable test methods – Part 4-6: Electromagnetic compatibility (EMC) – Surface transfer impedance – Line injection method | |

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| Type of test | Standard or test method / version | Title of the standard or test method | Restrictions to the test method |
|--|---|--|---------------------------------|
| RF EMC | IEC 62153-4-7 (12-2015) DIN EN 62153-4-7 (12-2016) | 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 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 | |
| RF EMC | IEC 62153-4-11 (08-2009) | 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 | |
| RF EMC | IEC 62153-4-12 (08-2009) | Metallic communication cable test methods, Part 4-12: Electromagnetic compatibility (EMC) - Coupling attenuation or screening attenuation of connecting hardware - Absorbing clamp method | |
| <p>7 Geometrical measurements</p> <p>No flexible accreditation category 3</p> | | | |
| Geometrical Measurements | Standard operating procedure (01-2017) | Test procedure for the documentation and doing of geometrical first article inspections | |