

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19704-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 2019-05-24

Date of issue: 2019-05-24

Holder of certificate:

**WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27, 32423 Minden**

Tests in the fields:

Electrical and mechanical testing of terminals and connectors and environmental simulation

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 standards / equivalent testing procedures within the flexible scope of accreditation.

Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
INSPG	DIN EN 60947-7-1:2010-03 IEC 60947-7-1:2009	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors	
	DIN EN 60947-7-2:2010-03 IEC 60947-7-2:2009	Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors	

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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	DIN EN 60947-7-3:2010-05 IEC 60947-7-3:2009	Low-voltage switchgear and controlgear - Part 7-3: Ancillary equipment - Safety requirements for fuse terminal blocks	
INSPG	DIN EN 60947-7-4:2014-08 IEC 60947-7-4:2019	Low-voltage switchgear and controlgear - Part 7-4: Ancillary equipment - PCB terminal blocks for copper conductors	
	DIN EN 60998-1:2005-03 IEC 60998-1:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements	Without part 14.3 pendular hammer tests for parts >50g Without part 16.3 Ball pressure test Without part 19 Determination of the comparative tracking index of solid insulation materials
	DIN EN 60998-2-1:2005-03 IEC 60998-2-1:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	See IEC 60998-01
	DIN EN 60998-2-2:2005-03 IEC 60998-2-2:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	See IEC 60998-01

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INSPG	DIN EN 60998-2-3:2005-03 IEC 60998-2-3:2002 +Cor.1:2006	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	See IEC 60998-01
	DIN EN 60999-1:2000-12 IEC 60999-1:1999	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 mm ² up to 35 mm ² (included)	
	DIN EN 60999-2:2004-04 IEC 60999-2:2003	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)	
	DIN EN 61535:2013-08 IEC 61535:2012 Edition 1.1 +Cor.1:2014	Installation couplers intended for permanent connection in fixed installations	Without part 17 Breaking capacity with inductive load Without part 24.2 Resistance to tracking (proof-tracking index)

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INSPG	DIN EN 61984:2009-11 +Ber.1:2012-03 IEC 61984:2008 +Cor.1:2011	Connectors - Safety requirements and tests	Without part 7.3.2 Durability of marking Without part 7.3.5 Breaking capacity with inductive load Without Annex A.2 Ball pressure test Without Annex A.3 Resistance to tracking (proof-tracking test)
	DIN EN 60695-2-10:2014-04 IEC 60695-2-10:2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
	DIN EN 60695-2-11:2014-11 IEC 60695-2-11:2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)	
	DIN EN 60695-2-12:2015-01 IEC 60695-2-12:2014 Edition 2.1	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
	DIN EN 60695-2-13:2015-01 IEC 60695-2-13:2014 Edition 2.1	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	

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INSPG	DIN EN 60695-11-5:2017-12 IEC 60695-11-5:2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
	DIN EN 60529:2014-09 + Berichtigung1:2017-02 IEC 60529:2013 Edition 2.2 + Cor.1:2019	Degrees of protection provided by enclosures (IP Code)	
	DIN EN 60512-1-1:2003-01 IEC 60512-1-1:2002	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination; Test 1a: Visual examination	
	DIN EN 60512-1-2:2003-01 IEC 60512-1-2:2002	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination; Test 1b: Examination of dimension and mass	
	DIN EN 60512-2-1:2003-01 IEC 60512-2-1:2002	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 60512-2-2:2004-01 IEC 60512-2-2:2003	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 60512-3-1:2003-01 IEC 60512-3-1:2002	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests; Test 3a: Insulation resistance	

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INSPG	DIN EN 60512-4-1:2004-01 IEC 60512-4-1:2003	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	
	DIN EN 60512-5-1:2013-01 + Berichtigung1:2015-06 IEC 60512-5-1:2002	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests; Test 5a: Temperature rise	
	DIN EN 60512-5-2:2003-01 IEC 60512-5-2:2002	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests; Test 5b: Current-temperature derating	
	DIN EN 60512-6-2:2003-01 IEC 60512-6-2:2002	Connectors for electronic equipment - Tests and measurements - Part 6-2: Dynamic stress tests; Test 6b: Bump	
	DIN EN 60512-6-3:2003-01 IEC 60512-6-3:2002	Connectors for electronic equipment - Tests and measurements - Dynamic stress tests - Test 6c – Shock	
	DIN EN 60512-6-4:2003-01 IEC 60512-6-4:2002	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal)	
	DIN EN 60512-15-1:2009-03 IEC 60512-15-1:2008	Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert	
	DIN EN 60512-9-1:2010-12 IEC 60512-9-1:2010	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	

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INSPG	DIN EN 60512-7-2:2012-09 IEC 60512-7-2:2011	Connectors for electronic equipment - Tests and measurements - Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact	
	DIN EN 60512-11-9:2003-01 IEC 60512-11-9:2002	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat	
	DIN EN 60512-11-10:2003- 01 IEC 60512-11-10:2002	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold	
	DIN EN 60512-13-5:2006-11 +Berichtigung 1:2008-11 IEC 60512-13-5:2006	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	
	DIN EN 60512-17-3:2011-06 IEC 60512-17-3:2010	Connectors for electronic equipment - Tests and measurements - Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile)	
	DIN EN 60512-17-4:2011-06 IEC 60512-17-4:2010	Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion	
Enviromental simulation	DIN EN 60068-2-1:2008-01 IEC 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Test A: Cold	
	DIN EN 60068-2-2:2008-05 IEC 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
	DIN EN 60068-2-6:2008-10 IEC 60068-2-6:2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
	DIN EN 60068-2-11:2000-02 IEC 60068-2-11:1981 +Cor.1:1999	Environmental testing - Part 2: Tests; test Ka: Salt mist	

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Environmental simulation	DIN EN 60068-2-14:2010-04 IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	
	DIN EN 60068-2-20:2009-02 +Berichtigung1:2009-05 IEC 60068-2-20:2008	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	
	DIN EN 60068-2-27:2010-02 IEC 60068-2-27:2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
	DIN EN 60068-2-30:2006-06 IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
	DIN EN IEC 60068-2- 52:2018-08 + Berichtigung1:2019-02 IEC 60068-2-52:2017	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	
	DIN EN 60068-2-64:2009-04 IEC 60068-2-64:2008	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	
	DIN EN 60068-2-70:1996-07 IEC 60068-2-70:1995	Environmental testing - Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands	
	DIN EN 60068-2-75:2015-08 IEC 60068-2-75:2014	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	
	DIN EN 60068-2-78:2014-02 IEC 60068-2-78:2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
	DIN EN ISO 6988:1997-03 ISO 6988:1985	Metallic and other non-organic coatings - Sulfur dioxide test with general condensation of moisture	

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