

List of Test Methods – Location MD(BG)

Created or updated by	Review and release Division / department or process owner	Conformity with the integrated management system (IMS)
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Range of application and languages	<input type="checkbox"/> MD Group <input type="checkbox"/> MD(D) <input type="checkbox"/> MD(CZ) <input type="checkbox"/> MD(CN) <input type="checkbox"/> MD(MX) <input checked="" type="checkbox"/> MD(BG)	<input checked="" type="checkbox"/> EN <input type="checkbox"/> DE <input type="checkbox"/> CS <input type="checkbox"/> ZH <input type="checkbox"/> ES <input type="checkbox"/> BG	English German Czech Chinese Spanish Bulgarian		
Original language version (In case of doubt, this language prevails.)	Englisch				
Involved divisions / departments	n/a				

The list of test methods is intended to provide an overview of the accredited/non-accredited methods at the respective location in the test laboratory. The revision statuses specified in this document comply with those in the DAkkS certificate appendix or with a subsequent version that is within the framework of the flexible accreditation.

In addition to this document, the certificate of the German national accreditation body (Deutsche Akkreditierungsstelle GmbH) also applies with the tests regarding the fields specified on the certificate.

The following list contains all test methods including the publication date.

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1 List of test methods

1.1 Test range: Electrical engineering / EMC

Special field	Standard or test method / publication date	Title of the standard or test method	Limitations regarding the test method	Test method	
				Accr.	Non-accr.
Electrical engineering	DIN EN 13018: 2016-06	Non-destructive testing - Visual testing - General principles			X
	DIN EN 50289-1-2: 2002-02 (Withdrawn)	Communication cables - Specifications for test methods - Part 1-2: Electrical test methods; DC resistance			X
	DIN EN 50289-1-2 VDE 0819-289-1-2 2024-01	Communication cables - Specifications for test methods - Part 1-2: Electrical test methods; DC resistance			X
	DIN EN 50289-1-3: 2002-02	Communication cables - Specifications for test methods - Part 1-3: Electrical test methods; Dielectric strength			X
	DIN EN 50289-1-4: 2002-02	Communication cables - Specifications for test methods - Part 1-4: Electrical test methods; Insulation resistance			X
	DIN EN 50289-1-5: 2002-02	Communication cables - Specifications for test methods - Part 1-5: Electrical test methods; Capacitance			X
	DIN EN 50289-1-8, VDE 0819-289-1-8: 2018-02	Communication cables - Specifications for test methods - Part 1-8: Electrical test methods - Attenuation			X
	DIN EN 50289-1-11, VDE 0819-289-1-11: 2018-08	Communication cables - Specifications for test methods - Part 1-11: Electrical test methods - Characteristic impedance, input impedance, return loss			X
	DIN EN 60512-1-1: 2003-01	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination; Test 1a: Visual examination			X
	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			X
	DIN EN 60512-2-5 2e: 2004-01	Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance			X
	DIN EN 60512-3-1: 2003-01	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests; Test 3a: Insulation resistance			X

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Special field	Standard or test method / publication date	Title of the standard or test method	Limitations regarding the test method	Test method	
				Accr.	Non-accr.
	DIN EN 60512-4-1: 2004-01	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof			X
	DIN EN 60512-25-2: 2002-12	Connectors for electronic equipment - Tests and measurements - Part 25-2: Test 25b: Attenuation (insertion loss)			X
	DIN EN 50289-1-10: 2002-07	Communication cables - Specifications for test methods - Part 1-10: Electrical test methods; Crosstalk	Is performed without balun measuring technique		X
	DIN EN 60512-25-5: 2005-05	Connectors for electronic equipment - Tests and measurements - Part 25-5: Test 25e - Return loss			X
	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)			X
	DIN 72594-2: 2009-05	Road vehicles - 50 ohm radio frequency interface (50 Ω RFI) - Part 2: Test procedures	<u>Limitations:</u> test group 3; temperature/ humidity cycling; 4 mechan. shock/vibration; 5 temperature; chapter 6.6 RF leakage are impossible		X
	ISO 20860-1: 2008-10	Road vehicles - 50 ohms impedance radio frequency connection system interface - Part 1: Dimensions and electrical requirements			X
	ISO 20860-2: 2009-03	Road vehicles - 50 ohms impedance radio frequency connection system interface - Part 2: Test procedures	<u>Limitations:</u> test group 3; temperature/ humidity cycling; 4 mechan. shock/vibration; 5 temperature; chapter 7.7 RF leakage are impossible		X
	BMW GS 95006-7-1: 2021-11	Wiring harnesses in motor vehicles – Plug connector – Tests	<u>Limitations:</u> PG0: PG1; PG4; PG5; PG10: PG11 are possible from PG23 only B23.1 is impossible		X
	MBN 10384: 2010-11 (LV 214)	Motor Vehicle Connectors – Test Specification	<u>Limitations:</u> PG0: PG1; PG4; PG5; PG10: PG11 are possible from PG23 only B23.1 is impossible		X

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Special field	Standard or test method / publication date	Title of the standard or test method	Limitations regarding the test method	Test method	
				Accr.	Non-accr.
	VW 75174: 2018-10	Motor Vehicle Connectors – Test	<u>Limitations:</u> PG0: PG1; PG4; PG5; PG10: PG11 are possible from PG23 only B23.1 is impossible		X
	VW 75206-1: 2008-10 (Withdrawn)	Radio-Frequency Cables in Motor Vehicles: Coaxial Cables	<u>Limitations:</u> Testing group 8: Cable structure; Testing group 9: RF properties (except 9.4 and 9.5); 10.1: Insulation strippability; 10.5.1: Static bending test; 10.7.2: Dielectric strength are possible		X
	VW 75206-1: 2020-11	Radio-Frequency Cables in Motor Vehicles - Requirements for Coaxial Cables	<u>Limitations:</u> Testing group 8: Cable structure; Testing group 9: RF properties (except 9.4 and 9.5); 10.1: Insulation strippability; 10.5.1: Static bending test; 10.7.2: Dielectric strength are possible		X

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1.2 Test range: Environmental simulation

Special field	Standard or test method / publication date	Title of the standard or test method	Limitations regarding the test method	Test method	
				Accr.	Non-accr.
Environmental simulation	DIN EN 60068-2-1, VDE 0468-2-1: 2008-01	Environmental testing - Part 2-1: Tests - Test A: Cold	Limitations: air velocity in the working space cannot be changed		X
	DIN EN 60068-2-2, VDE 0468-2-2: 2008-05	Environmental testing - Part 2-2: Tests - Test B: Dry heat	Limitations: air velocity in the working space cannot be changed		X
	DIN EN 60068-2-14, VDE 0468-2-14: 2010-04	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Limitations: methods Na and Nc are impossible		X
	DIN EN 60068-2-14: Nb: 2010-04	Environmental testing - Part 2: Tests - Test N: Nb: Change of temperature			X
	DIN EN 60068-2-30: 2006-06	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)			X
	DIN EN 60068-2-38, VDE 0468-2-38: 2010-06	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test			X
	DIN EN 60068-2-67, VDE 0468-2-67: 2020-08	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components			X
	DIN EN 60068-2-78, VDE 0468-2-78: 2014-02	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state			X

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1.3 Test range: Mechanical tests

Special field	Standard or test method / publication date	Title of the standard or test method	Limitations regarding the test method	Test method	
				Accr.	Non-accr.
Mechanical tests	DIN EN 50289-3-17: 2002-09	Communication cables - Specifications for test methods - Part 3-17: Mechanical test methods; Adhesion of dielectric and sheath			X
	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			X
	DIN EN 60512-13-5: 2006-11 With corrigendum: 2008-11	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method			X
	DIN EN 60512-13-1: 2006-11 With corrigendum: 2008-11	Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces			X
	DIN EN 60512-13-2: 2006-11 With corrigendum: 2008-11	Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces			X
	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			X
	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)			X
	VW 60330: 2013-12	Crimp Connections Solderless electrical connections	<u>Limitations:</u> Chap. 4.2.1 General; Chap. 4.2.2 Stripping; Chap. 4.3.1 Contact element; Chap. 5.2 Crimp equipment are impossible		X

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2 Used abbreviations

- Accr. Accredited test methods
- Non-accr. Non-accredited test methods
- BMW Bayerische Motoren Werke Aktiengesellschaft
- DIN German Institute for Standardization
- EMC Electromagnetic compatibility
- EN European standard
- GS Group standard
- IEC International Electrotechnical Commission
- ISO International Organization for Standardization
- LAH Specification sheet
- LV Delivery specifications
- MBN Mercedes Benz standard
- VDE Association for Electrical, Electronic & Information Technologies
- VW Volkswagen Aktiengesellschaft
- LAA Laboratory work instruction

3 Modification history

Revision status	Originator	Type of modification	Modification date
70034612	Drenov Boris	New creation This document replaces document C11439	11.11.2024

Modifications are carried out exclusively by the technically responsible organizational unit.
The last modifications are always highlighted with blue font color.

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