



TEST REPORT

EN 61076-2-101

Connectors for electronic equipment — Product requirements

Part 2-101: Circular connectors —

Detail specification for M12 connectors with screw-locking

Report reference No. : 704102400842-00

Date of issue : 2025-02-10

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Standard : EN 61076-2-101: 2012

Test Report Form No. : EN 61076-2-101_1A

TRF modified by..... : TÜV Product Service GmbH

Master TRF : Dated 2014-09

Copyright blank test report..... : This test report is based on the contents of the standard. It was
prepared by TÜV Product Service GmbH.

Test procedure : TUV MARK

Procedure deviation : N/A

Non-standard test method : N/A

National deviations..... : N/A

Number of pages (Report) : 92

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Type of test object.....	: M12 A-coding connector
Trademark	: N/A
Model and/or type reference.....	: 120104-01-xxx, 120105-01-xxx, 120108-01-xxx, 120104-02-xxx, 120105-02-xxx, 120108-02-xxx, 120104-03-xxx, 120105-03-xxx, 120108-03-xxx, 120112-03-xxx, 120117-03-xxx, 120104-04-xxx, 120105-04-xxx, 120108-04-xxx, 120112-04-xxx, 120117-04-xxx, 120104-05-xxx, 120105-05-xxx, 120108-05-xxx, 120112-05-xxx, 120117-05-xxx, 120104-06-xxx, 120105-06-xxx, 120108-06-xxx, 120112-06-xxx, 120117-06-xxx, 120104-10-xxx, 120105-10-xxx, 120108-10-xxx, 120112-10-xxx, 120117-10-xxx, 120104-20-xxx, 120105-20-xxx, 120108-20-xxx, 120112-20-xxx, 120117-20-xxx, 120104-21-xxx, 120105-21-xxx, 120108-21-xxx, 120112-21-xxx, 120117-21-xxx
Rating(s)	: See page 4 of this report
Manufacturer	: Same as applicant
Address	: Same as applicant
Sub-contractors/ tests (clause).....	: N/A
Address	: N/A
Date of receipt of test item.....	: 2024-01-24
Date(s) of performance of test.....	: 2024-01-25 to 2025-02-10
Test item particulars.....	: M12 connector
Coding.....	: A
Style.....	: See details at page 4
Contacts.....	: 4, 5, 8, 12, 17
Rated Voltage a.c. or d.c. (V).....	: See details at page 4
Rated current	: See details at page 4
Climatic category.....	: 25/85/21
Possible test case verdicts:	
- test case does not apply to the test object.....	: N(.A.)
- test object does meet the requirement.....	: P(ass)
- test object does not meet the requirement	: F(ail)
Attachments:	
	• Photo documentation (26 pages) • Data form for electrical equipment and machinery (8 pages)



General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ~~point~~ (comma) is used as the decimal separator.

The test results presented in this report relate only to the object tested.

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Remark:

N/A

Summary of testing:

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

1. Complete tests on set of 120104-01-034 match 120104-02-041, 120105-03-007 match 120108-06-600 120108-03-042 match 120108-06-600, 120108-04-029 match 120108-05-600, 120108-05-600 match 120108-06-600, 120112-04-063 match 120112-03-001 and 120117-03-008 match 120117-04-001.
Rest of the models for construction check only.

2. These test results comply with the requirements of EN 61076-2-101: 2012

Copy of marking plate:

Refer to CDF

Factory:

Same as applicant



General product information:

Table 1:

Models:	120104-01-xxx, 120105-01-xxx, 120108-01-xxx, 120104-02-xxx, 120105-02-xxx, 120108-02-xxx, 120104-03-xxx, 120105-03-xxx, 120108-03-xxx, 120112-03-xxx, 120117-03-xxx, 120104-04-xxx, 120105-04-xxx, 120108-04-xxx, 120112-04-xxx, 120117-04-xxx, 120104-05-xxx, 120105-05-xxx, 120108-05-xxx, 120112-05-xxx, 120117-05-xxx, 120104-06-xxx, 120105-06-xxx, 120108-06-xxx, 120112-06-xxx, 120117-06-xxx, 120104-10-xxx, 120105-10-xxx, 120108-10-xxx, 120112-10-xxx, 120117-10-xxx, 120104-20-xxx, 120105-20-xxx, 120108-20-xxx, 120112-20-xxx, 120117-20-xxx, 120104-21-xxx, 120105-21-xxx, 120108-21-xxx, 120112-21-xxx, 120117-21-xxx "xxx": means customer designed number, may be three alphanumeric digits.
Rated voltage:	See table 2
Rated current:	See table 2
Connector type:	A
Number of contacts:	See table 2
Degree of protection:	IP68 (2m, 1h) (after mated)



Table 2:

Model	Rated voltage a.c or d.c (V)	Rated current (A)	Contacts	Styles of connectors
120104-01-xxx	250	4	4	Assemble male style
120105-01-xxx	60	4	5	Assemble male style
120108-01-xxx	30	2	8	Assemble male style
120104-02-xxx	250	4	4	Assemble female style
120105-02-xxx	60	4	5	Assemble female style
120108-02-xxx	30	2	8	Assemble female style
120104-03-xxx	250	4	4	Fix male style
120105-03-xxx	60	4	5	Fix male style
120108-03-xxx	30	2	8	Fix male style
120112-03-xxx	30	1.5	12	Fix male style
120117-03-xxx	30	1.5	17	Fix male style
120104-04-xxx	250	4	4	Fix female style
120105-04-xxx	60	4	5	Fix female style
120108-04-xxx	30	2	8	Fix female style
120112-04-xxx	30	1.5	12	Fix female style
120117-04-xxx	30	1.5	17	Fix female style
120104-05-xxx	250	4	4	Free male style
120105-05-xxx	60	4	5	Free male style
120108-05-xxx	30	2	8	Free male style
120112-05-xxx	30	1.5	12	Free male style
120117-05-xxx	30	1.5	17	Free male style
120104-06-xxx	250	4	4	Free female style
120105-06-xxx	60	4	5	Free female style
120108-06-xxx	30	2	8	Free female style
120112-06-xxx	30	1.5	12	Free female style
120117-06-xxx	30	1.5	17	Free female style
120104-10-xxx	250	4	4	Free adaptor style
120105-10-xxx	60	4	5	Free adaptor style
120108-10-xxx	30	2	8	Free adaptor style
120112-10-xxx	30	1.5	12	Free adaptor style
120117-10-xxx	30	1.5	17	Free adaptor style
120104-20-xxx	250	4	4	Male style with shielding function
120105-20-xxx	60	4	5	Male style with shielding function
120108-20-xxx	30	2	8	Male style with shielding function
120112-20-xxx	30	1.5	12	Male style with shielding function
120117-20-xxx	30	1.5	17	Male style with shielding function
120104-21-xxx	250	4	4	Female style with shielding function
120105-21-xxx	60	4	5	Female style with shielding function
120108-21-xxx	30	2	8	Female style with shielding function
120112-21-xxx	30	1.5	12	Female style with shielding function
120117-21-xxx	30	1.5	17	Female style with shielding function

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Clause	Requirement + Test	Result - Remark	Verdict

	Preliminary Test group P (TABLE 12)		P
P1	General examination		P
	Visual examination: IEC 60512 Test 1a		P
	Unmated connectors		P
	There shall be no defect that would impair normal operation		P
	Dimensional examination: IEC 60512 Test 1b		P
	The dimensions shall comply with those specified in Clause 4		P
P2	Polarizing method		N/A
4.3.5	Conditions: IEC60512, test 13e Insertion force: 35N min.	Not applicable, see test group AP	N/A
P3	Contact resistance		P
5.2.4	Conditions: IEC 60512, Test 2a Standard atmospheric conditions connecting points see 6.2		P
	10 mΩ max. Initial value:	See Appendix Table P3	P
P4	Insulation resistance		P
5.2.5	Test voltage 500 V ± 15 V d.c. Method A		P
	10 ⁸ Ω min.	See Appendix Table P4-P5	P
P5	Voltage proof		P
5.2.2	Between contacts	See Appendix Table P4-P5	P
	Between contacts and metal-housing	See Appendix Table P4-P5	P
	Test voltage:	See Appendix Table 8	P
P6	Pressure differential		N/A
5.3.7	Applicable for connectors with glass to metal seal.		N/A
	IEC 60512 Test 14b		N/A
	Standard atmospheric conditions		N/A
	Connectors unmated		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Lubricant not required		N/A
	Pressure differential 100±5 kPa		N/A
	No leakage permitted		N/A

	Dynamic/ climatic Test group AP (TABLE 13)		P
AP1	Insertion and withdrawal forces		P
5.3.3	IEC 60512, Test 13b		P
	Standard atmospheric conditions Max. speed = 10 mm/s		P
	Number of poles:	4, 5, 8, 12, 17	P
	Max. total insertion force(N):	<10N for 4, 5 poles <23N for 8, 12 poles <30N for 17 poles	P
	Max. total withdrawal force (N):	<15N for 4, 5 poles <30N for 8, 12 poles <30N for 17 poles	P
AP2	Gauge retention force		P
	IEC 60512, Test 16e		P
	Female contacts only 3 contacts		P
	Each contact to be tested shall have the maximum size gauge specified inserted and withdrawn three times.		P
	After which, the minimum size retention force gauge specified shall be inserted.		P
	During testing: Contacts shall support the weight of the individual contact retention force gauge in the vertically downward direction. The gauge shall be maintained for 5s minimum.		P
AP3	Vibration		P
5.3.6	IEC 60512, Test 6d		P
	Standard atmospheric condition.		P
	Connectors in mated and locked position		P
	The fixed and free connector shall be rigidly installed in a suitable fixture as specified in 6.3		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Vibration severity: 10 Hz to 500 Hz and 0,35 mm or 50 m/s ²		P
	Sweep cycles: 10		P
	Full duration: 6 h		P
	Duration of disturbance 1 μ s max.		P
	Contact resistance rise in relation to initial values 15 m Ω max.	See Appendix Table AP3	P
	There shall be no defect that would impair normal operation.		P
AP4	Shock		P
	Half sine shock acceleration 490 m/s ² (50 g)		P
	Duration of impact: 11 ms		P
	Duration of disturbance 1 μ s max.		P
	Contact resistance rise in relation to initial values 15 m Ω max.	See Appendix Table AP4	P
	There shall be no defect that would impair normal operation.		P
AP5	Rapid change of temperature		P
	IEC 60512, Test 11d		P
	- 25°C to 85 °C, t = 30 min, 5 cycles		P
	Contact resistance rise in relation to initial values 15 m Ω max.	See Appendix Table AP5	P
	Insulation resistance 10 ⁸ Ω min	>10 ⁸ Ω	P
	Voltage proof : same as P5		P
	There shall be no defect that would impair normal operation	no defect	P
AP6	Climatic sequence		P
AP6.1	Dry heat		P
	Temp.: 85 °C	85 °C	P
	Duration: 16 h	16 h	P
	Insulation resistance at high temperature 10 ⁸ Ω min	>10 ⁸ Ω	P
AP6.2	Damp heat, cyclic, first cycle		P

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Clause	Requirement + Test	Result - Remark	Verdict
	IEC 60512 11m Method Db		P
	Temp.: 40 °C	40 °C	P
	Recovery time: 2 h	2 h	P
	There shall be no defect that would impair normal operation	no defect	P
AP6.3	Cold		P
	Temp.: -25 °C	-25 °C	P
	Duration: 2 h	2 h	P
	Recovery time: 2 h	2 h	P
	There shall be no defect that would impair normal operation	no defect	P
AP6.4	Damp heat, cyclic, remaining cycles		P
	Conditions according to AP6.2		P
	5 cycles, Recovery time: 2 h		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table AP6.4	P
	Insulation resistance 10 ⁸ Ω min	>10 ⁸ Ω	P
	Voltage proof : same as P5		P
	There shall be no defect that would impair normal operation	no defect	P
	Insertion and withdrawal forces as AP1.		P
AP7	Impacting dust and water		P
AP7.1	IP code second characteristic numeral	IP68 (2m, 1h) (after mated)	P
	No leakage on contacts		P
AP7.2	IP code first characteristic numeral	IP68 (2m, 1h) (after mated)	P
	IP6X no deposit of dust on contacts		P
AP7.3	applies only to connectors with glass to metal seal.		N/A
	Contact resistance rise in relation to initial values 15 mΩ max.		N/A
	Insulation resistance 10 ⁸ Ω min		N/A
	Voltage proof : same as P5		N/A
	Insertion and withdrawal forces as AP1.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Pressure Differential : same as P6		N/A
AP7.4	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table AP7	P
	Insulation resistance 10 ⁸ Ω min	>10 ⁸ Ω	P
	Voltage proof : same as P5		P
	Insertion and withdrawal forces as AP1.		P
AP8	Visual examination		P
	There shall be no defect that would impair normal operation		P
AP9	Polarizing method		P
	Conditions: IEC 60512, Test 13e		P
	Insertion force: 35 N min.		P
	It shall be possible to correctly align and mate the appropriate mating connectors.		P
	It shall not be possible to mate the connectors in any other than the correct manner.		P

	Mechanical endurance Test group BP (TABLE 14)		P
BP1	Gauge retention force		P
	IEC 60512, Test 16e		P
	Female contacts only 3 contacts		P
	Each contact to be tested shall have the maximum size gauge specified inserted and withdrawn three times.		P
	After which, the minimum size retention force gauge specified shall be inserted.		P
	During testing: Contacts shall support the weight of the individual contact retention force gauge in the vertically downward direction. The gauge shall be maintained for 5s minimum.		P
BP2	Mechanical operation (half of the specified number of operations)		P
	First half of the specified number of operations:		P
	Speed 10 mm/s max.		P
	Rest 30 s (unmated)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Operations see 5.3.2		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table BP2	P
	There shall be no defect that would impair normal operation		P
BP3	Climatic test		P
BP3.1	Corrosion industrial atmosphere		P
	Flowing mixed gas corrosion – 4 days, test method 4 according IEC 60068-2-60		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table BP3.1	P
BP4	Mechanical operation (remaining half of specified number of operations)		P
	Remaining half of the specified number of operations :		P
	Speed 10 mm/s max.		P
	Rest 30 s (unmated)		P
	Operations see 5.3.2		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table BP4	P
	Insulation resistance $10^8 \Omega$ min	$>10^8 \Omega$	P
	Voltage proof : same as P5		P
	Unmated connectors		P
	Pressure Differential: same as P6		P
	Visual examination		P
	There shall be no defect that would impair normal operation		P
BP5.1	IP code second characteristic numeral		P
	No leakage on contacts	IP68 (2m, 1h) (after mated)	P
BP5.2	Insulation resistance $10^8 \Omega$ min	$>10^8 \Omega$	P
	Voltage proof : same as P5		P
BP6	Insertion and withdrawal forces		P
5.3.3	IEC 60512, Test 13b		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Standard atmospheric conditions Max. speed = 10 mm/s		P
	Number of poles:	4, 5, 8, 12, 17	P
	Max. total insertion force(N):	<10N for 4, 5 poles <23N for 8, 12 poles <30N for 17 poles	P
	Max. total withdrawal force (N):	<15N for 4, 5 poles <30N for 8, 12 poles <30N for 17 poles	P
BP7	Gauge retention force		P
	IEC 60512, Test 16e		P
	Female contacts only 3 contacts		P
	Each contact to be tested shall have the maximum size gauge specified inserted and withdrawn three times.		P
	After which, the minimum size retention force gauge specified shall be inserted.		P
	During testing: Contacts shall support the weight of the individual contact retention force gauge in the vertically downward direction. The gauge shall be maintained for 5s minimum.		P

	Electrical load Test group CP (TABLE 15)		P
CP1	Rapid change of temperature		P
	IEC 60512, Test 11d		P
	- 25°C to 85 °C, t = 30 min, 5 cycles		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table CP1	P
	Insulation resistance 10 ⁸ Ω min		P
	Voltage proof : same as P5		P
	There shall be no defect that would impair normal operation		P
CP2	Mechanical operation		P
	First half of the specified number of operations :		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Speed 10 mm/s max.		P
	Rest 30 s (unmated)		P
	Operations see 5.3.2		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table CP2	P
	There shall be no defect that would impair normal operation		P
CP3	Electrical load and temperature		P
	Duration: 1 000 h		P
	Amb.temp.: 40 °C		P
	Current load according to 5.2.3		P
	Recovery time: 2 h		P
	Temp. sensor in centre of specimen		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table CP3	P
	Insulation resistance 10 ⁸ Ω min		P
	Voltage proof : same as P5		P
CP4	Impacting dust and water		P
CP4.1	IP code second characteristic		P
	No leakage on contacts		P
CP4.2	Insulation resistance 10 ⁸ Ω min		P
	Voltage proof : same as P5		P
CP5	Unmated connectors		P
	Visual examination		P
	There shall be no defect that would impair normal operation		P

	Chemical resistivity Test group DP (TABLE 16)		P
DP1	Resistance to fluids		P
	IEC 60512, Test 19c		P
	5 cycles		P

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Clause	Requirement + Test	Result - Remark	Verdict
	The fluid used for testing is upon agreement between manufacturer and user :		P
	Phase 3 test temperature specified in the specification:		P
DP2	Clearing of specimen by washing briefly in light petrol		P
	Contact resistance rise in relation to initial values 15 mΩ max.	See Appendix Table DP2	P
DP3	Voltage proof : same as P5		P
DP4	Visual examination		P
	There shall be no defect that would impair normal operation		P

	Connection method tests - Test group EP (TABLE 17)		P
EP1	Solderless connections: screw, crimp, insulation displacement, insulation piercing, press-in	Crimp	P
	See relevant IEC 60352 standard, for screw-type terminations see relevant IEC 60998-2-1 or IEC 60999	Routine test according to IEC 60352	-

	Electrical transmission - Test group FP (TABLE 18)		N/A
FP1	Insertion loss		N/A
	IEC 60512, Test 29a		N/A
	$\leq 0,04 \sqrt{f}$		N/A
	Attenuation at frequencies that correspond to calculated values of less than 0,1 dB shall revert to a requirement of 0,1 dB maximum.		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
FP2	Near end crosstalk		N/A
	IEC 60512, Test 29c		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	All pairs, both directions (pair to pair)		N/A
	$\geq 83 - 20\log(f)$		N/A
	NEXT loss at frequencies that correspond to calculated values of greater than 80 dB shall revert to a minimum requirement of 80 dB		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
FP3	Return loss		N/A
	IEC 60512, Test 29b		N/A
	All pairs, both directions		N/A
	$\geq 60 - 20\log(f)$		N/A
	Return loss at frequencies that correspond to calculated values of greater than 30 dB shall revert to a minimum requirement of 30 dB		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
FP4	Far end crosstalk		N/A
	IEC 60512, Test 29d		N/A
	All pairs, both directions (pair to pair)		N/A
	$\geq 75,1 - 20\log(f)$ dB		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	FEXT loss at frequencies that correspond to calculated values of greater than 75 dB shall revert to a minimum requirement of 75 dB		N/A
FP5	Transverse conversion loss		N/A
	All pairs, both directions		N/A
	IEC 60512, Test 29f		N/A
	All pairs: $\geq 68 - 20\log(f)$ dB		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
	TCL and TCTL at frequencies that correspond to calculated values of greater than 50 dB shall revert to a minimum requirement of 50 dB.		N/A
FP6	Transverse conversion transfer loss		N/A
	All pairs, both directions		N/A
	IEC 60512, Test 29g		N/A
	All pairs: $\geq 68 - 20\log(f)$ dB		N/A
	All transmission results shall report worst case overall for the corresponding pair or pair combination after testing the all samples.		N/A
	All measurements to be performed on mated connectors.		N/A
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
	TCL and TCTL at frequencies that correspond to calculated values of greater than 50 dB shall revert to a minimum requirement of 50 dB.		N/A
FP7	Transfer impedance		N/A
	IEC 60512, Test 26e		N/A
	$\leq 0,1 \times f^{0,3} \Omega$ from 1 MHz to 10 MHz $\leq 0,02 \times f \Omega$ from 10 MHz to 100 MHz		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	For all formulas f is the frequency in MHz. Frequency range from 1 MHz to 100 MHz.		N/A
FP8	Input to output resistance		N/A
	Measurement points as defined in 6.2. All signal contacts and screen / specimens		N/A
	IEC 60512, Test 2a		N/A
	Signal contact resistance $\leq 200 \text{ m}\Omega$ max. Screen resistance $\leq 100 \text{ m}\Omega$ max.		N/A
FP9	Resistance unbalance		N/A
	IEC 60512, Test 2a		N/A
	Measurement points as defined in 6.2 All signal contacts		N/A
	Unbalance resistance $\leq 50 \text{ m}\Omega$ max.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

P3	TABLE: Initial measurements (Contact resistance) 10 mΩ max.													P
Test current								0.1 A						—
Test sample 12PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
1	ΔU1 [mV]	0.68 9	0.69 4	0.57 2	0.60 3	0.59 8	0.62 4	0.67 8	0.60 6	0.62	0.61 4	0.71 6	0.62 5	
	R1 [mΩ]	6.89	6.94	5.72	6.03	5.98	6.24	6.78	6.06	6.2	6.14	7.16	6.25	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2	ΔU1 [mV]	0.64 9	0.74 2	0.73	0.67 8	0.64 3	0.63 1	0.58 3	0.61 9	0.73 4	0.78 8	0.75 8	0.65 1	
	R1 [mΩ]	6.49	7.42	7.3	6.78	6.43	6.31	5.83	6.19	7.34	7.88	7.58	6.51	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3	ΔU1 [mV]	0.61 7	0.73 4	0.76 3	0.63 8	0.62 6	0.56 6	0.67 5	0.71 9	0.63 7	0.66	0.64 3	0.67 4	
	R1 [mΩ]	6.17	7.34	7.63	6.38	6.26	5.66	6.75	7.19	6.37	6.6	6.43	6.74	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
4	ΔU1 [mV]	0.64 2	0.68 3	0.60 5	0.57 1	0.62 6	0.49 3	0.78	0.65 4	0.53 8	0.56 7	0.65 2	0.60 1	
	R1 [mΩ]	6.42	6.83	6.05	5.71	6.26	4.93	7.8	6.54	5.38	5.67	6.52	6.01	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
5	ΔU1 [mV]	0.64 2	0.73 1	0.62 3	0.58 2	0.67 1	0.66 4	0.51 2	0.63 6	0.58 3	0.67 2	0.65 8	0.62 2	
	R1 [mΩ]	6.42	7.31	6.23	5.82	6.71	6.64	5.12	6.36	5.83	6.72	6.58	6.22	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
6	ΔU1 [mV]	0.64 1	0.68 3	0.63 7	0.53 8	0.67 2	0.57 4	0.62 1	0.61 9	0.61 3	0.58	0.62	0.65 6	
	R1 [mΩ]	6.41	6.83	6.37	5.38	6.72	5.74	6.21	6.19	6.13	5.8	6.2	6.56	

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Clause	Requirement + Test	Result - Remark	Verdict
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	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
7	$\Delta U1$ [mV]	0.65 8	0.67 8	0.62 1	0.71 1	0.65	0.68	0.68 2	0.65 8	0.67 8	0.61 3	0.68 7	0.67 6	
	R1 [m Ω]	6.58	6.78	6.21	7.11	6.5	6.8	6.82	6.58	6.78	6.13	6.87	6.76	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
8	$\Delta U1$ [mV]	0.55 4	0.63 2	0.69	0.62 4	0.69 5	0.71 2	0.65 2	0.66 3	0.72 4	0.65 4	0.62 5	0.68 4	
	R1 [m Ω]	5.54	6.32	6.9	6.24	6.95	7.12	6.52	6.63	7.24	6.54	6.25	6.84	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
9	$\Delta U1$ [mV]	0.61 8	0.71 3	0.63	0.58 7	0.64 4	0.63 2	0.68 8	0.61 9	0.71 1	0.68 1	0.59 8	0.61 5	
	R1 [m Ω]	6.18	7.13	6.3	5.87	6.44	6.32	6.88	6.19	7.11	6.81	5.98	6.15	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
10	$\Delta U1$ [mV]	0.61 4	0.65 2	0.63 8	0.56 1	0.63 2	0.55 7	0.63 3	0.63 7	0.63 8	0.51 6	0.67 7	0.61 1	
	R1 [m Ω]	6.14	6.52	6.38	5.61	6.32	5.57	6.33	6.37	6.38	5.16	6.77	6.11	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
11	$\Delta U1$ [mV]	0.70 1	0.63 2	0.69	0.62 4	0.68 2	0.59 5	0.55 2	0.56 3	0.61 4	0.62 5	0.63 3	0.60 8	
	R1 [m Ω]	7.01	6.32	6.9	6.24	6.82	5.95	5.52	5.63	6.14	6.25	6.33	6.08	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
12	$\Delta U1$ [mV]	0.54 2	0.62 3	0.55 1	0.67 1	0.61 6	0.59 3	0.68	0.57 9	0.63 1	0.65 5	0.64 3	0.60 8	
	R1 [m Ω]	5.42	6.23	5.51	6.71	6.16	5.93	6.8	5.79	6.31	6.55	6.43	6.08	

supplementary information:

Max contact resistance for combination match as 120112-04-063 match 120112-03-001

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Clause	Requirement + Test	Result - Remark	Verdict

P4-P5	1.1 TABLE: Voltage proof / Insulation resistance			P
	Insulation resistance R (MΩ) 500 V ± 15 V d.c.	Voltage proof U (V)		
	Between contacts and metal-housing 10 ⁸ Ω min.	Between contacts 500V	Between contacts and metal-housing 500V	
1	4 × 10 ⁹	Pass	Pass	
2	6 × 10 ⁹	Pass	Pass	
3	5 × 10 ⁹	Pass	Pass	
4	7 × 10 ⁹	Pass	Pass	
5	3 × 10 ⁹	Pass	Pass	
6	4 × 10 ⁹	Pass	Pass	
7	5 × 10 ⁹	Pass	Pass	
8	5 × 10 ⁹	Pass	Pass	
9	6 × 10 ⁹	Pass	Pass	
10	4 × 10 ⁹	Pass	Pass	
11	2 × 10 ⁹	Pass	Pass	
12	7 × 10 ⁹	Pass	Pass	
supplementary information:				

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Clause		Requirement + Test							Result - Remark					Verdict	
AP3		TABLE: Final measurements (Contact resistance)												P	
Test current :								0.1 A						—	
Condition..... :								ΔR =R2-R1							
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
1		ΔU2 [mV]	0.77 8	0.77 7	0.62 3	0.67 4	0.65 3	0.70 8	0.75 0	0.69 1	0.67 0	0.67 1	0.77 9	0.66 2	P
		R2 [mΩ]	7.78	7.77	6.23	6.74	6.53	7.08	7.50	6.91	6.70	6.71	7.79	6.62	
		ΔR[mΩ]	0.89	0.83	0.51	0.71	0.55	0.84	0.72	0.85	0.50	0.57	0.63	0.37	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2		ΔU2 [mV]	0.69 7	0.80 3	0.77 4	0.72 8	0.70 3	0.72 7	0.67 4	0.65 8	0.83 1	0.87 7	0.84 1	0.74 7	P
		R2 [mΩ]	6.97	8.03	7.74	7.28	7.03	7.27	6.74	6.58	8.31	8.77	8.41	7.47	
		ΔR[mΩ]	0.48	0.61	0.44	0.50	0.60	0.96	0.91	0.39	0.97	0.89	0.83	0.96	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3		ΔU2 [mV]	0.69	0.84	0.79 5	0.77 7	0.65 6	0.69 9	0.74 2	0.83 4	0.76 3	0.78 8	0.74 2	0.71 4	P
		R2 [mΩ]	6.90	8.40	7.95	7.77	6.56	6.99	7.42	8.34	7.63	7.88	7.42	7.14	
		ΔR[mΩ]	0.73	1.06	0.32	1.39	0.30	1.33	0.67	1.15	1.26	1.28	0.99	0.40	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

EN 61076-2-101															
Clause		Requirement + Test							Result - Remark					Verdict	
AP4		TABLE: Final measurements (Contact resistance)												P	
Test current								0.1 A					—		
Condition.....								ΔR =R2-R1							
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
1		ΔU2 [mV]	0.74 7	0.78 9	0.66 0	0.65 3	0.67 3	0.72 6	0.73 9	0.70 0	0.67 2	0.70 7	0.80 5	0.68 2	P
		R2 [mΩ]	7.47	7.89	6.60	6.53	6.73	7.26	7.39	7.00	6.72	7.07	8.05	6.82	
		ΔR[mΩ]	0.58	0.95	0.88	0.50	0.75	1.02	0.61	0.94	0.52	0.93	0.89	0.57	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2		ΔU2 [mV]	0.72 5	0.81 5	0.78 7	0.72 1	0.68 8	0.72 1	0.62 8	0.68 4	0.83 0	0.87 1	0.84 8	0.73 3	P
		R2 [mΩ]	7.25	8.15	7.87	7.21	6.88	7.21	6.28	6.84	8.30	8.71	8.48	7.33	
		ΔR[mΩ]	0.76	0.73	0.57	0.43	0.45	0.90	0.45	0.65	0.96	0.83	0.90	0.82	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3		ΔU2 [mV]	0.73 2	0.78 5	0.82 1	0.68 3	0.67 2	0.68 8	0.77 3	0.79 6	0.67 2	0.69 2	0.77 4	0.80 9	P
		R2 [mΩ]	7.32	7.85	8.21	6.83	6.72	6.88	7.73	7.96	6.72	6.92	7.74	8.09	
		ΔR[mΩ]	1.15	0.51	0.58	0.45	0.46	1.22	0.98	0.77	0.35	0.32	1.31	1.35	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

EN 61076-2-101															
Clause		Requirement + Test							Result - Remark					Verdict	
AP5		TABLE: Final measurements (Contact resistance)												P	
Test current :									0.1 A					—	
Condition..... :									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
1		ΔU2 [mV]	0.73 7	0.79 6	0.61 8	0.64 8	0.66 4	0.71 5	0.74 4	0.68 1	0.70 4	0.66 6	0.79 4	0.71 3	P
		R2 [mΩ]	7.37	7.96	6.18	6.48	6.64	7.15	7.44	6.81	7.04	6.66	7.94	7.13	
		ΔR[mΩ]	0.48	1.02	0.46	0.45	0.66	0.91	0.66	0.75	0.84	0.52	0.78	0.88	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2		ΔU2 [mV]	0.73 5	0.82 9	0.80 3	0.74 9	0.73 2	0.69 4	0.67 9	0.67 0	0.80 0	0.87 5	0.80 6	0.69 6	P
		R2 [mΩ]	7.35	8.29	8.03	7.49	7.32	6.94	6.79	6.70	8.00	8.75	8.06	6.96	
		ΔR[mΩ]	0.86	0.87	0.73	0.71	0.89	0.63	0.96	0.51	0.66	0.87	0.48	0.45	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3		ΔU2 [mV]	0.74 3	0.86 6	0.83 1	0.70 5	0.75 9	0.66 7	0.78 1	0.78 9	0.76 1	0.75 6	0.72 3	0.74 4	P
		R2 [mΩ]	7.43	8.66	8.31	7.05	7.59	6.67	7.81	7.89	7.61	7.56	7.23	7.44	
		ΔR[mΩ]	1.26	1.32	0.68	0.67	1.33	1.01	1.06	0.70	1.24	0.96	0.80	0.70	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

EN 61076-2-101															
Clause		Requirement + Test							Result - Remark					Verdict	
AP6		TABLE: Final measurements (Contact resistance)												P	
Test current								0.1 A					—		
Condition.....								ΔR =R2-R1							
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
1		ΔU2 [mV]	0.73 2	0.77 0	0.61 8	0.68 5	0.69 2	0.66 5	0.76 5	0.67 2	0.68 0	0.66 9	0.76 4	0.71 1	P
		R2 [mΩ]	7.32	7.70	6.18	6.85	6.92	6.65	7.65	6.72	6.80	6.69	7.64	7.11	
		ΔR[mΩ]	0.43	0.76	0.46	0.82	0.94	0.41	0.87	0.66	0.60	0.55	0.48	0.86	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2		ΔU2 [mV]	0.74 5	0.83 5	0.78 5	0.74 2	0.72 6	0.72 9	0.68 0	0.69 0	0.78 2	0.85 1	0.83 3	0.74 6	P
		R2 [mΩ]	7.45	8.35	7.85	7.42	7.26	7.29	6.80	6.90	7.82	8.51	8.33	7.46	
		ΔR[mΩ]	0.96	0.93	0.55	0.64	0.83	0.98	0.97	0.71	0.48	0.63	0.75	0.95	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3		ΔU2 [mV]	0.67 8	0.77 4	0.89	0.72 4	0.71 1	0.60 4	0.8	0.74 9	0.73 4	0.78 7	0.71 9	0.78 7	P
		R2 [mΩ]	6.78	7.74	8.90	7.24	7.11	6.04	8.00	7.49	7.34	7.87	7.19	7.87	
		ΔR[mΩ]	0.61	0.40	1.27	0.86	0.85	0.38	1.25	0.30	0.97	1.27	0.76	1.13	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

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Clause		Requirement + Test							Result - Remark					Verdict	
AP7		TABLE: Final measurements (Contact resistance)												P	
Test current									0.1 A					—	
Condition.....									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
1		ΔU2 [mV]	0.78 6	0.75 1	0.62 9	0.68 2	0.68 3	0.71 2	0.74 3	0.67 3	0.67 4	0.65 7	0.81 4	0.70 7	P
		R2 [mΩ]	7.86	7.51	6.29	6.82	6.83	7.12	7.43	6.73	6.74	6.57	8.14	7.07	
		ΔR[mΩ]	0.97	0.57	0.57	0.79	0.85	0.88	0.65	0.67	0.54	0.43	0.98	0.82	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
2		ΔU2 [mV]	0.70 8	0.83 0	0.79 2	0.75 1	0.71 8	0.71 8	0.65 6	0.70 0	0.80 1	0.87 8	0.80 5	0.72 8	P
		R2 [mΩ]	7.08	8.30	7.92	7.51	7.18	7.18	6.56	7.00	8.01	8.78	8.05	7.28	
		ΔR[mΩ]	0.59	0.88	0.62	0.73	0.75	0.87	0.73	0.81	0.67	0.90	0.47	0.77	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
3		ΔU2 [mV]	0.64 5	0.82 8	0.86 5	0.67 4	0.75 5	0.67 5	0.73 7	0.84	0.73 8	0.71 5	0.67	0.71 1	P
		R2 [mΩ]	6.45	8.28	8.65	6.74	7.55	6.75	7.37	8.40	7.38	7.15	6.70	7.11	
		ΔR[mΩ]	0.28	0.94	1.02	0.36	1.29	1.09	0.62	1.21	1.01	0.55	0.27	0.37	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

Report Reference No. 120112-03-001

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Clause		Requirement + Test							Result - Remark					Verdict	
BP2		TABLE: Final measurements (Contact resistance)												P	
Test current :									0.1 A					—	
Condition..... :									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
4		ΔU2 [mV]	0.72 0	0.75 7	0.64 8	0.64 4	0.66 6	0.59 6	0.82 3	0.69 6	0.60 0	0.66 1	0.74 7	0.69 0	P
		R2 [mΩ]	7.20	7.57	6.48	6.44	6.66	5.96	8.23	6.96	6.00	6.61	7.47	6.90	
		ΔR[mΩ]	0.78	0.74	0.43	0.73	0.40	1.03	0.43	0.42	0.62	0.94	0.95	0.89	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
5		ΔU2 [mV]	0.73 5	0.78 3	0.68 6	0.65 8	0.76 9	0.73 2	0.56 1	0.68 4	0.67 1	0.75 9	0.72 6	0.70 0	P
		R2 [mΩ]	7.35	7.83	6.86	6.58	7.69	7.32	5.61	6.84	6.71	7.59	7.26	7.00	
		ΔR[mΩ]	0.93	0.52	0.63	0.76	0.98	0.68	0.49	0.48	0.88	0.87	0.68	0.78	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
6		ΔU2 [mV]	0.68 8	0.75 8	0.67 9	0.67 6	0.72 3	0.61 1	0.69 7	0.71 3	0.72 7	0.65 6	0.74 7	0.68 8	P
		R2 [mΩ]	6.88	7.58	6.79	6.76	7.23	6.11	6.97	7.13	7.27	6.56	7.47	6.88	
		ΔR[mΩ]	0.47	0.75	0.42	1.38	0.51	0.37	0.76	0.94	1.14	0.76	1.27	0.32	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

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Clause	Requirement + Test	Result - Remark	Verdict
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BP3	TABLE: Final measurements (Contact resistance)													P
Test current :								0.1 A						—
Condition..... :								$\Delta R = R2 - R1$						
Test sample 12PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
4	$\Delta U2$ [mV]	0.74 3	0.76 1	0.68 1	0.64 0	0.68 5	0.57 6	0.83 3	0.75 3	0.60 4	0.63 3	0.72 6	0.64 0	P
	R2 [mΩ]	7.43	7.61	6.81	6.40	6.85	5.76	8.33	7.53	6.04	6.33	7.26	6.40	
	ΔR [mΩ]	1.01	0.78	0.76	0.69	0.59	0.83	0.53	0.99	0.66	0.66	0.74	0.39	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
5	$\Delta U2$ [mV]	0.72 9	0.82 8	0.67 0	0.62 5	0.75 4	0.73 7	0.59 6	0.68 7	0.67 1	0.77 2	0.73 5	0.69 6	P
	R2 [mΩ]	7.29	8.28	6.70	6.25	7.54	7.37	5.96	6.87	6.71	7.72	7.35	6.96	
	ΔR [mΩ]	0.87	0.97	0.47	0.43	0.83	0.73	0.84	0.51	0.88	1.00	0.77	0.74	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
6	$\Delta U2$ [mV]	0.68 6	0.74 3	0.71	0.61 4	0.69 9	0.70 1	0.65 7	0.72 2	0.67 3	0.62 7	0.74 9	0.71 3	P
	R2 [mΩ]	6.86	7.43	7.10	6.14	6.99	7.01	6.57	7.22	6.73	6.27	7.49	7.13	
	ΔR [mΩ]	0.45	0.60	0.73	0.76	0.27	1.27	0.36	1.03	0.60	0.47	1.29	0.57	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001														

Report Reference No. 120112-03-001

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Clause		Requirement + Test							Result - Remark					Verdict	
BP4		TABLE: Final measurements (Contact resistance)												P	
Test current									0.1 A					—	
Condition.....									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
4		ΔU2 [mV]	0.73 6	0.73 5	0.68 4	0.66 6	0.66 1	0.55 4	0.88 0	0.72 1	0.58 4	0.65 5	0.73 4	0.66 7	P
		R2 [mΩ]	7.36	7.35	6.84	6.66	6.61	5.54	8.80	7.21	5.84	6.55	7.34	6.67	
		ΔR[mΩ]	0.94	0.52	0.79	0.95	0.35	0.61	1.00	0.67	0.46	0.88	0.82	0.66	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
5		ΔU2 [mV]	0.69 3	0.80 0	0.68 3	0.64 4	0.76 4	0.72 1	0.55 1	0.67 8	0.63 1	0.77 2	0.69 9	0.71 4	P
		R2 [mΩ]	6.93	8.00	6.83	6.44	7.64	7.21	5.51	6.78	6.31	7.72	6.99	7.14	
		ΔR[mΩ]	0.51	0.69	0.60	0.62	0.93	0.57	0.39	0.42	0.48	1.00	0.41	0.92	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
6		ΔU2 [mV]	0.77 6	0.75 6	0.74	0.60 6	0.73 9	0.67 5	0.71 6	0.67 1	0.72	0.64 8	0.66 8	0.70 2	P
		R2 [mΩ]	7.76	7.56	7.40	6.06	7.39	6.75	7.16	6.71	7.20	6.48	6.68	7.02	
		ΔR[mΩ]	1.35	0.73	1.03	0.68	0.67	1.01	0.95	0.52	1.07	0.68	0.48	0.46	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

Report Reference No: 120112-03-001

EN 61076-2-101															
Clause		Requirement + Test							Result - Remark					Verdict	
CP1		TABLE: Final measurements (Contact resistance)												P	
Test current :									0.1 A					—	
Condition..... :									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
7		ΔU2 [mV]	0.70 0	0.72 1	0.67 7	0.79 3	0.70 4	0.76 4	0.76 3	0.73 3	0.72 6	0.67 7	0.75 6	0.74 2	P
		R2 [mΩ]	7.00	7.21	6.77	7.93	7.04	7.64	7.63	7.33	7.26	6.77	7.56	7.42	
		ΔR[mΩ]	0.42	0.43	0.56	0.82	0.54	0.84	0.81	0.75	0.48	0.64	0.69	0.66	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
8		ΔU2 [mV]	0.59 5	0.69 8	0.77 4	0.68 3	0.74 0	0.77 9	0.70 0	0.75 2	0.77 3	0.73 6	0.72 5	0.76 4	P
		R2 [mΩ]	5.95	6.98	7.74	6.83	7.40	7.79	7.00	7.52	7.73	7.36	7.25	7.64	
		ΔR[mΩ]	0.41	0.66	0.84	0.59	0.45	0.67	0.48	0.89	0.49	0.82	1.00	0.80	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
9		ΔU2 [mV]	0.75 1	0.84 7	0.67 4	0.64 7	0.74 9	0.75 7	0.81 3	0.67 6	0.76 4	0.76 2	0.67 6	0.74 3	P
		R2 [mΩ]	7.51	8.47	6.74	6.47	7.49	7.57	8.13	6.76	7.64	7.62	6.76	7.43	
		ΔR[mΩ]	1.33	1.34	0.44	0.60	1.05	1.25	1.25	0.57	0.53	0.81	0.78	1.28	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

EN 61076-2-101														
Clause		Requirement + Test							Result - Remark					Verdict
CP2	TABLE: Final measurements (Contact resistance)													P
Test current								0.1 A					—	
Condition.....								ΔR =R2-R1						
Test sample 12PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
7	ΔU2 [mV]	0.72 9	0.71 7	0.66 1	0.79 6	0.74 1	0.73 3	0.72 1	0.72 5	0.74 9	0.65 0	0.76 9	0.73 6	P
	R2 [mΩ]	7.29	7.17	6.61	7.96	7.41	7.33	7.21	7.25	7.49	6.50	7.69	7.36	
	ΔR[mΩ]	0.71	0.39	0.40	0.85	0.91	0.53	0.39	0.67	0.71	0.37	0.82	0.60	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
8	ΔU2 [mV]	0.61 7	0.69 5	0.76 9	0.71 9	0.79 3	0.80 9	0.73 1	0.74 9	0.81 9	0.72 4	0.68 9	0.78 4	P
	R2 [mΩ]	6.17	6.95	7.69	7.19	7.93	8.09	7.31	7.49	8.19	7.24	6.89	7.84	
	ΔR[mΩ]	0.63	0.63	0.79	0.95	0.98	0.97	0.79	0.86	0.95	0.70	0.64	1.00	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
9	ΔU2 [mV]	0.70 1	0.75 8	0.72 9	0.64 1	0.67 1	0.76 9	0.82 2	0.67 5	0.79 7	0.77 1	0.69 8	0.64 4	P
	R2 [mΩ]	7.01	7.58	7.29	6.41	6.71	7.69	8.22	6.75	7.97	7.71	6.98	6.44	
	ΔR[mΩ]	0.83	0.45	0.99	0.54	0.27	1.37	1.34	0.56	0.86	0.90	1.00	0.29	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001														

Report Reference No: 120112-03-001

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Clause		Requirement + Test							Result - Remark					Verdict	
CP3		TABLE: Final measurements (Contact resistance)												P	
Test current :									0.1 A					—	
Condition..... :									ΔR =R2-R1						
Test sample 12PIN		Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
7		ΔU2 [mV]	0.69 5	0.77 1	0.67 8	0.77 7	0.71 9	0.74 3	0.72 1	0.75 2	0.71 6	0.71 5	0.72 8	0.71 1	P
		R2 [mΩ]	6.95	7.71	6.78	7.77	7.19	7.43	7.21	7.52	7.16	7.15	7.28	7.11	
		ΔR[mΩ]	0.37	0.93	0.57	0.66	0.69	0.63	0.39	0.94	0.38	1.02	0.41	0.35	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
8		ΔU2 [mV]	0.62 1	0.71 1	0.74 0	0.67 7	0.79 0	0.79 1	0.73 3	0.71 7	0.81 4	0.69 8	0.71 7	0.73 0	P
		R2 [mΩ]	6.21	7.11	7.40	6.77	7.90	7.91	7.33	7.17	8.14	6.98	7.17	7.30	
		ΔR[mΩ]	0.67	0.79	0.50	0.53	0.95	0.79	0.81	0.54	0.90	0.44	0.92	0.46	
		Contact	1	2	3	4	5	6	7	8	9	10	11	12	
9		ΔU2 [mV]	0.72 1	0.76 2	0.65 7	0.62 6	0.67	0.70 5	0.74 7	0.75 3	0.78 7	0.76 8	0.67 5	0.67 6	P
		R2 [mΩ]	7.21	7.62	6.57	6.26	6.70	7.05	7.47	7.53	7.87	7.68	6.75	6.76	
		ΔR[mΩ]	1.03	0.49	0.27	0.39	0.26	0.73	0.59	1.34	0.76	0.87	0.77	0.61	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001															

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Clause	Requirement + Test	Result - Remark	Verdict
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DP1	TABLE: Final measurements (Contact resistance)													P
Test current								0.1 A						—
Condition.....								$\Delta R = R2-R1$						
Test sample 12PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	—
10	$\Delta U2$ [mV]	0.67 6	0.70 5	0.69 0	0.62 0	0.71 7	0.60 2	0.67 7	0.70 1	0.72 8	0.58 1	0.77 8	0.66 4	P
	R2 [mΩ]	6.76	7.05	6.90	6.20	7.17	6.02	6.77	7.01	7.28	5.81	7.78	6.64	
	ΔR [mΩ]	0.62	0.53	0.52	0.59	0.85	0.45	0.44	0.64	0.90	0.65	1.01	0.53	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
11	$\Delta U2$ [mV]	0.78 0	0.67 1	0.74 7	0.72 0	0.74 7	0.65 9	0.62 5	0.66 2	0.68 9	0.67 2	0.68 8	0.70 3	P
	R2 [mΩ]	7.80	6.71	7.47	7.20	7.47	6.59	6.25	6.62	6.89	6.72	6.88	7.03	
	ΔR [mΩ]	0.79	0.39	0.57	0.96	0.65	0.64	0.73	0.99	0.75	0.47	0.55	0.95	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	
12	$\Delta U2$ [mV]	0.63 7	0.65 1	0.63 9	0.75 3	0.69 8	0.64 4	0.72 8	0.62 6	0.71 7	0.70 1	0.72 7	0.72 8	P
	R2 [mΩ]	6.37	6.51	6.39	7.53	6.98	6.44	7.28	6.26	7.17	7.01	7.27	7.28	
	ΔR [mΩ]	0.95	0.28	0.88	0.82	0.82	0.51	0.48	0.47	0.86	0.46	0.84	1.20	
supplementary information: Max contact resistance for combination match as 120112-04-063 match 120112-03-001														

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Clause	Requirement + Test	Result - Remark	Verdict
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P3	TABLE: Initial measurements (Contact resistance) 10 mΩ max.																		P
Test current: 0.1 A										—									
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	ΔU1 [mV]	0.5 96	0.6 44	0.5 44	0.6 01	0.5 82	0.5 81	0.6 03	0.5 54	0.5 98	0.6 41	0.5 72	0.5 89	0.5 8	0.6 26	0.5 34	0.5 86	0.6 85	
	R1 [mΩ]	5.9 6	6.4 4	5.4 4	6.0 1	5.8 2	5.8 1	6.0 3	5.5 4	5.9 8	6.4 1	5.7 2	5.8 9	5.8	6.2 6	5.3 4	5.8 6	6.8 5	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	ΔU1 [mV]	0.6 34	0.7 09	0.5 92	0.5 91	0.6 41	0.6 11	0.6 02	0.5 51	0.6 12	0.7 04	0.6 12	0.7 01	0.6 12	0.6 27	0.6 65	0.7 4	0.5 56	
	R1 [mΩ]	6.3 4	7.0 9	5.9 2	5.9 1	6.4 1	6.1 1	6.0 2	5.5 1	6.1 2	7.0 4	6.1 2	7.0 1	6.1 2	6.2 7	6.6 5	7.4	5.5 6	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	ΔU1 [mV]	0.5 68	0.6 69	0.5 54	0.6 5	0.5 94	0.6 87	0.5 37	0.5 74	0.6 05	0.6 12	0.5 59	0.5 5	0.5 83	0.4 86	0.4 85	0.5 66	0.6 02	
	R1 [mΩ]	5.6 8	6.6 9	5.5 4	6.5	5.9 4	6.8 7	5.3 7	5.7 4	6.0 5	6.1 2	5.5 9	5.5	5.8 3	4.8 6	4.8 5	5.6 6	6.0 2	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
4	ΔU1 [mV]	0.6 08	0.6 67	0.6 31	0.6 63	0.6 96	0.6 48	0.5 79	0.6 38	0.6 2	0.6 5	0.5 93	0.6 22	0.6 55	0.6 29	0.5 86	0.6 23	0.5 55	
	R1 [mΩ]	6.0 8	6.6 7	6.3 1	6.6 3	6.9 6	6.4 8	5.7 9	6.3 8	6.2	6.5	5.9 3	6.2 2	6.5 5	6.2 9	5.8 6	6.2 3	5.5 5	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
5	ΔU1 [mV]	0.5 31	0.6 52	0.5 76	0.5 9	0.5 81	0.5 92	0.5 98	0.6 29	0.6 72	0.5 91	0.6 04	0.6 39	0.6 26	0.6 16	0.5 51	0.5 89	0.6 84	
	R1 [mΩ]	5.3 1	6.5 2	5.7 6	5.9	5.8 1	5.9 2	5.9 8	6.2 9	6.7 2	5.9 1	6.0 4	6.3 9	6.2 6	6.1 6	5.5 1	5.8 9	6.8 4	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
6	ΔU1 [mV]	0.5 97	0.6 16	0.5 26	0.5 77	0.6 92	0.6 36	0.6 05	0.5 77	0.6 03	0.5 89	0.5 79	0.6 56	0.6 26	0.5 83	0.6 06	0.5 13	0.6 12	
	R1 [mΩ]	5.9 7	6.1 6	5.2 6	5.7 7	6.9 2	6.3 6	6.0 5	5.7 7	6.0 3	5.8 9	5.7 9	6.5 6	6.2 6	5.8 3	6.0 6	5.1 3	6.1 2	

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Clause	Requirement + Test											Result - Remark								Verdict
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
7	ΔU1 [mV]	0.6 16	0.6 26	0.5 74	0.6 09	0.5 98	0.6 35	0.6 26	0.6 64	0.6 05	0.5 9	0.5 82	0.6 67	0.6 37	0.6 72	0.5 61	0.5 63	0.6 84		
	R1 [mΩ]	6.1 6	6.2 6	5.7 4	6.0 9	5.9 8	6.3 5	6.2 6	6.6 4	6.0 5	5.9	5.8 2	6.6 7	6.3 7	6.7 2	5.6 1	5.6 3	6.8 4		
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
8	ΔU1 [mV]	0.5 75	0.5 12	0.5 42	0.5 97	0.5 26	0.5 894	0.6 19	0.6 21	0.6 38	0.6 22	0.5 91	0.6 41	0.6 61	0.5 66	0.5 79	0.6 13	0.6 28		
	R1 [mΩ]	5.7 5	5.1 2	5.4 2	5.9 7	5.2 6	5.8 94	6.1 9	6.2 1	6.3 8	6.2 2	5.9 1	6.4 1	6.6 1	5.6 6	5.7 9	6.1 3	6.2 8		
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
9	ΔU1 [mV]	0.5 34	0.5 69	0.6 32	0.6 22	0.6 92	0.6 27	0.5 78	0.6 12	0.5 5	0.5 95	0.5 59	0.5 66	0.5 88	0.4 99	0.5 85	0.5 97	0.6 03		
	R1 [mΩ]	5.3 4	5.6 9	6.3 2	6.2 2	6.9 2	6.2 7	5.7 8	6.1 2	5.5	5.9 5	5.5 9	5.6 6	5.8 8	4.9 9	5.8 5	5.9 7	6.0 3		
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
10	ΔU1 [mV]	0.5 94	0.6 14	0.5 32	0.5 95	0.6 51	0.5 98	0.5 37	0.6 38	0.6 75	0.5 88	0.5 93	0.5 32	0.5 92	0.5 22	0.6 11	0.5 92	0.6 16		
	R1 [mΩ]	5.9 4	6.1 4	5.3 2	5.9 5	6.5 1	5.9 8	5.3 7	6.3 8	6.7 5	5.8 8	5.9 3	5.3 2	5.9 2	5.2 2	6.1 1	5.9 2	6.1 6		
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
11	ΔU1 [mV]	0.5 33	0.6 13	0.5 66	0.5 73	0.6 13	0.5 29	0.6 03	0.6 31	0.5 84	0.5 99	0.5 17	0.5 9	0.6 08	0.6 15	0.6 23	0.5 72	0.6 35		
	R1 [mΩ]	5.3 3	6.1 3	5.6 6	5.7 3	6.1 3	5.2 9	6.0 3	6.3 1	5.8 4	5.9 9	5.1 7	5.9	6.0 8	6.1 5	6.2 3	5.7 2	6.3 5		
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
12	ΔU1 [mV]	0.5 42	0.5 23	0.6 51	0.5 71	0.6 16	0.5 93	0.6 28	0.5 79	0.5 31	0.6 15	0.5 43	0.5 81	0.6 05	0.5 93	0.6 07	0.5 98	0.6 54		
	R1 [mΩ]	5.4 2	5.2 3	6.5 1	5.7 1	6.1 6	5.9 3	6.2 8	5.7 9	5.3 1	6.1 5	5.4 3	5.8 1	6.0 5	5.9 3	6.0 7	5.9 8	6.5 4		
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																				

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Clause	Requirement + Test	Result - Remark	Verdict

P4-P5	1.2 TABLE: Voltage proof / Insulation resistance			P
	Insulation resistance R (MΩ) 500 V ± 15 V d.c.	Voltage proof U (V)		
	Between contacts and metal-housing 10 ⁸ Ω min.	Between contacts 500V	Between contacts and metal-housing 500V	
1	6×10 ⁹	Pass	Pass	
2	6×10 ⁹	Pass	Pass	
3	6×10 ⁹	Pass	Pass	
4	7×10 ⁹	Pass	Pass	
5	4×10 ⁹	Pass	Pass	
6	8×10 ⁹	Pass	Pass	
7	5×10 ⁹	Pass	Pass	
8	4×10 ⁹	Pass	Pass	
9	6×10 ⁹	Pass	Pass	
10	3×10 ⁹	Pass	Pass	
11	2×10 ⁹	Pass	Pass	
12	7×10 ⁹	Pass	Pass	
supplementary information:				

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Clause	Requirement + Test	Result - Remark	Verdict
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AP3		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A								—
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
1	$\Delta U2$ [mV]	0.636	0.729	0.582	0.676	0.667	0.645	0.692	0.608	0.661	0.724	0.667	0.678	0.639	0.715	0.583	0.678	0.731	P
	R2 [m Ω]	6.36	7.29	5.82	6.76	6.67	6.45	6.92	6.08	6.61	7.24	6.67	6.78	6.39	7.15	5.83	6.78	7.31	
	ΔR [m Ω]	0.40	0.85	0.38	0.75	0.85	0.64	0.89	0.54	0.63	0.83	0.95	0.89	0.59	0.89	0.49	0.92	0.46	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	$\Delta U2$ [mV]	0.685	0.754	0.654	0.691	0.730	0.666	0.680	0.644	0.674	0.802	0.670	0.748	0.659	0.689	0.745	0.800	0.596	P
	R2 [m Ω]	6.85	7.54	6.54	6.91	7.30	6.66	6.80	6.44	6.74	8.02	6.70	7.48	6.59	6.89	7.45	8.00	5.96	
	ΔR [m Ω]	0.51	0.45	0.62	1.00	0.89	0.55	0.78	0.93	0.62	0.98	0.58	0.47	0.47	0.62	0.80	0.60	0.40	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	$\Delta U2$ [mV]	0.664	0.697	0.636	0.701	0.675	0.740	0.588	0.652	0.669	0.667	0.588	0.592	0.621	0.578	0.595	0.611	0.641	P
	R2 [m Ω]	6.64	6.97	6.36	7.01	6.75	7.40	5.88	6.52	6.69	6.67	5.88	5.92	6.21	5.78	5.95	6.15	6.41	
	ΔR [m Ω]	0.96	0.28	0.82	0.51	0.81	0.53	0.43	0.78	0.64	0.55	0.29	0.42	0.38	0.92	1.10	0.49	0.39	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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Clause	Requirement + Test	Result - Remark	Verdict
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AP4		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A								—
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
1	$\Delta U2$ [mV]	0.630	0.724	0.626	0.656	0.675	0.667	0.662	0.646	0.641	0.741	0.615	0.645	0.675	0.672	0.615	0.643	0.759	P
	R2 [m Ω]	6.30	7.24	6.26	6.56	6.75	6.67	6.62	6.46	6.41	7.41	6.15	6.45	6.75	6.72	6.15	6.43	7.59	
	ΔR [m Ω]	0.34	0.80	0.82	0.55	0.93	0.86	0.59	0.92	0.43	1.00	0.43	0.56	0.95	0.46	0.81	0.57	0.74	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	$\Delta U2$ [mV]	0.729	0.754	0.675	0.660	0.687	0.708	0.659	0.592	0.693	0.794	0.692	0.754	0.675	0.696	0.748	0.802	0.622	P
	R2 [m Ω]	7.29	7.54	6.75	6.60	6.87	7.08	6.59	5.92	6.93	7.94	6.92	7.54	6.75	6.96	7.48	8.02	6.22	
	ΔR [m Ω]	0.95	0.45	0.83	0.69	0.46	0.97	0.57	0.41	0.81	0.90	0.80	0.53	0.63	0.69	0.83	0.62	0.66	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	$\Delta U2$ [mV]	0.602	0.701	0.613	0.789	0.693	0.743	0.650	0.643	0.687	0.670	0.639	0.683	0.639	0.549	0.617	0.694	0.722	P
	R2 [m Ω]	6.02	7.01	6.13	7.89	6.93	7.43	6.50	6.43	6.87	7.00	6.39	6.83	6.39	5.49	6.17	6.94	7.22	
	ΔR [m Ω]	0.34	0.32	0.59	1.39	0.99	0.56	1.13	0.69	0.82	0.58	0.80	1.33	0.56	0.63	1.32	1.28	1.20	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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AP5		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A								—
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
1	$\Delta U2$ [mV]	0.675	0.699	0.610	0.684	0.630	0.645	0.649	0.656	0.671	0.688	0.662	0.662	0.668	0.703	0.634	0.636	0.757	P
	R2 [mΩ]	6.75	6.99	6.10	6.84	6.30	6.45	6.49	6.56	6.71	6.88	6.62	6.62	6.68	7.03	6.34	6.36	7.57	
	ΔR [mΩ]	0.79	0.55	0.66	0.83	0.48	0.64	0.46	0.02	0.73	0.47	0.90	0.73	0.88	0.77	0.00	0.50	0.72	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	$\Delta U2$ [mV]	0.679	0.761	0.689	0.676	0.705	0.652	0.657	0.590	0.661	0.780	0.658	0.789	0.651	0.682	0.749	0.840	0.597	P
	R2 [mΩ]	6.79	7.61	6.89	6.76	7.05	6.52	6.57	5.90	6.61	7.80	6.58	7.89	6.51	6.82	7.49	8.40	5.97	
	ΔR [mΩ]	0.45	0.52	0.97	0.85	0.64	0.41	0.55	0.39	0.49	0.76	0.46	0.88	0.39	0.55	0.84	0.00	0.41	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	$\Delta U2$ [mV]	0.647	0.738	0.582	0.693	0.625	0.741	0.634	0.631	0.685	0.681	0.613	0.616	0.686	0.613	0.619	0.700	0.644	P
	R2 [mΩ]	6.47	7.38	5.82	6.93	6.25	7.41	6.34	6.31	6.85	6.81	6.13	6.16	6.86	6.13	6.19	7.00	6.44	
	ΔR [mΩ]	0.79	0.69	0.28	0.43	0.31	0.54	0.97	0.57	0.80	0.69	0.54	0.66	0.03	0.27	0.34	0.34	0.42	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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Clause	Requirement + Test	Result - Remark	Verdict
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AP6		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A							—	
Condition..... :											ΔR =R2-R1								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
1	ΔU2 [mV]	0.675	0.699	0.610	0.684	0.630	0.645	0.649	0.656	0.671	0.688	0.662	0.662	0.668	0.703	0.634	0.636	0.757	P
	R2 [mΩ]	6.75	6.99	6.10	6.84	6.30	6.45	6.49	6.56	6.71	6.88	6.62	6.62	6.68	7.03	6.34	6.36	7.57	
	ΔR[mΩ]	0.79	0.55	0.66	0.83	0.48	0.64	0.46	0.02	0.73	0.47	0.90	0.73	0.88	0.77	0.00	0.50	0.72	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	ΔU2 [mV]	0.679	0.761	0.689	0.676	0.705	0.652	0.657	0.590	0.661	0.780	0.658	0.789	0.651	0.682	0.749	0.840	0.597	P
	R2 [mΩ]	6.79	7.61	6.89	6.76	7.05	6.52	6.57	5.90	6.61	7.80	6.58	7.89	6.51	6.82	7.49	8.40	5.97	
	ΔR[mΩ]	0.45	0.52	0.97	0.85	0.64	0.41	0.55	0.39	0.49	0.76	0.46	0.88	0.39	0.55	0.84	0.00	0.41	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	ΔU2 [mV]	0.647	0.738	0.582	0.693	0.625	0.741	0.634	0.631	0.685	0.681	0.613	0.616	0.686	0.613	0.619	0.700	0.644	P
	R2 [mΩ]	6.47	7.38	5.82	6.93	6.25	7.41	6.34	6.31	6.85	6.81	6.13	6.16	6.86	6.13	6.19	7.00	6.44	
	ΔR[mΩ]	0.79	0.69	0.28	0.43	0.31	0.54	0.97	0.57	0.80	0.69	0.54	0.66	0.03	0.27	0.34	0.34	0.42	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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AP7	TABLE: Final measurements (Contact resistance)																	P	
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2 - R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
1	$\Delta U2$ [mV]	0.658	0.730	0.581	0.701	0.667	0.626	0.660	0.617	0.686	0.690	0.629	0.685	0.629	0.701	0.624	0.685	0.749	P
	R2 [mΩ]	6.58	7.30	5.81	7.01	6.67	6.26	6.60	6.17	6.86	6.90	6.29	6.85	6.29	7.01	6.24	6.85	7.49	
	ΔR [mΩ]	0.62	0.86	0.37	1.00	0.85	0.45	0.57	0.63	0.88	0.49	0.57	0.96	0.49	0.75	0.90	0.99	0.64	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	$\Delta U2$ [mV]	0.705	0.777	0.644	0.638	0.687	0.711	0.667	0.624	0.658	0.751	0.676	0.756	0.688	0.715	0.722	0.814	0.607	P
	R2 [mΩ]	7.05	7.77	6.44	6.38	6.87	7.11	6.67	6.24	6.58	7.51	6.76	7.56	6.88	7.15	7.25	8.14	6.07	
	ΔR [mΩ]	0.71	0.68	0.52	0.47	0.46	1.00	0.65	0.73	0.46	0.47	0.64	0.55	0.74	0.88	0.60	0.74	0.51	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3	$\Delta U2$ [mV]	0.606	0.774	0.584	0.745	0.687	0.794	0.667	0.681	0.701	0.675	0.623	0.687	0.683	0.525	0.546	0.674	0.679	P
	R2 [mΩ]	6.06	7.70	5.84	7.45	6.87	7.94	6.67	6.81	7.01	6.75	6.23	6.87	6.83	5.25	5.46	6.74	6.79	
	ΔR [mΩ]	0.38	1.01	0.30	0.95	0.93	1.07	1.30	1.07	0.96	0.63	0.64	1.37	1.00	0.39	0.61	1.08	0.77	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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BP2	TABLE: Final measurements (Contact resistance)																	P	
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
4	$\Delta U2$ [mV]	0.654	0.764	0.669	0.760	0.752	0.722	0.679	0.683	0.656	0.699	0.644	0.659	0.693	0.725	0.672	0.712	0.600	P
	R2 [mΩ]	6.54	7.64	6.69	7.76	7.52	7.72	6.79	6.83	6.56	6.99	6.40	6.59	6.93	7.25	6.72	7.12	6.00	
	ΔR [mΩ]	0.46	0.97	0.38	0.97	0.56	0.74	1.00	0.45	0.36	0.49	0.47	0.37	0.38	0.96	0.86	0.89	0.45	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
5	$\Delta U2$ [mV]	0.589	0.749	0.662	0.658	0.681	0.646	0.694	0.720	0.720	0.644	0.679	0.683	0.693	0.680	0.627	0.644	0.761	P
	R2 [mΩ]	5.89	7.49	6.62	6.58	6.81	6.46	6.94	7.20	7.20	6.40	6.79	6.83	6.93	6.80	6.27	6.43	7.61	
	ΔR [mΩ]	0.58	0.97	0.86	0.68	1.00	0.54	0.96	0.91	0.48	0.49	0.75	0.44	0.67	0.64	0.76	0.54	0.77	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
6	$\Delta U2$ [mV]	0.633	0.653	0.603	0.688	0.772	0.725	0.635	0.623	0.690	0.619	0.663	0.703	0.751	0.616	0.705	0.644	0.732	P
	R2 [mΩ]	6.30	6.53	6.03	6.88	7.72	7.25	6.35	6.23	6.90	6.19	6.63	7.03	7.51	6.16	7.05	6.44	7.32	
	ΔR [mΩ]	0.33	0.37	0.77	1.11	0.80	0.89	0.30	0.46	0.87	0.30	0.84	0.47	1.25	0.33	0.99	1.31	1.20	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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BP3		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A								—
Condition..... :											$\Delta R = R2 - R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
4	$\Delta U2$ [mV]	0.683	0.714	0.689	0.741	0.740	0.686	0.678	0.741	0.682	0.716	0.696	0.663	0.747	0.696	0.627	0.659	0.656	P
	R2 [m Ω]	6.83	7.14	6.89	7.41	7.40	6.86	6.78	7.41	6.82	7.16	6.96	6.63	7.47	6.96	6.27	6.59	6.56	
	ΔR [m Ω]	0.75	0.47	0.58	0.78	0.44	0.38	0.99	1.03	0.62	0.66	1.03	0.41	0.92	0.67	0.41	0.36	1.01	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
5	$\Delta U2$ [mV]	0.591	0.721	0.655	0.674	0.673	0.657	0.689	0.695	0.757	0.688	0.665	0.689	0.697	0.701	0.644	0.679	0.737	P
	R2 [m Ω]	5.91	7.21	6.55	6.74	6.73	6.57	6.89	6.95	7.57	6.88	6.65	6.89	6.97	7.01	6.44	6.79	7.37	
	ΔR [m Ω]	0.60	0.69	0.79	0.84	0.92	0.65	0.91	0.66	0.85	0.97	0.61	0.50	0.71	0.85	0.93	0.90	0.53	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
6	$\Delta U2$ [mV]	0.715	0.737	0.554	0.614	0.771	0.775	0.635	0.617	0.696	0.658	0.662	0.779	0.738	0.625	0.637	0.539	0.644	P
	R2 [m Ω]	7.15	7.37	5.54	6.14	7.71	7.75	6.35	6.17	6.96	6.58	6.62	7.79	7.38	6.25	6.37	5.39	6.44	
	ΔR [m Ω]	1.18	1.21	0.28	0.37	0.79	0.39	0.30	0.40	0.93	0.69	0.83	1.23	1.12	0.42	0.31	0.26	0.32	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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BP4		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2 - R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
4	$\Delta U2$ [mV]	0.643	0.707	0.721	0.766	0.756	0.750	0.688	0.681	0.693	0.709	0.681	0.715	0.693	0.716	0.673	0.681	0.593	P
	R2 [mΩ]	6.43	7.07	7.21	7.66	7.56	7.50	6.88	6.81	6.93	7.09	6.81	7.15	6.93	7.16	6.73	6.81	5.93	
	ΔR [mΩ]	0.35	0.40	0.90	1.03	0.60	1.02	1.01	0.43	0.73	0.59	0.88	0.93	0.38	0.87	0.87	0.58	0.38	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
5	$\Delta U2$ [mV]	0.603	0.752	0.654	0.645	0.654	0.679	0.684	0.716	0.766	0.648	0.679	0.718	0.684	0.713	0.612	0.652	0.783	P
	R2 [mΩ]	6.03	7.52	6.54	6.45	6.54	6.79	6.84	7.16	7.66	6.48	6.79	7.18	6.84	7.13	6.12	6.52	7.83	
	ΔR [mΩ]	0.72	1.00	0.78	0.55	0.73	0.87	0.86	0.87	0.88	0.57	0.75	0.79	0.58	0.97	0.61	0.63	0.99	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
6	$\Delta U2$ [mV]	0.651	0.69	0.585	0.711	0.751	0.672	0.645	0.616	0.714	0.625	0.683	0.705	0.766	0.699	0.721	0.602	0.726	P
	R2 [mΩ]	6.51	6.90	5.85	7.11	7.51	6.72	6.45	6.16	7.14	6.25	6.83	7.05	7.66	6.90	7.21	6.02	7.26	
	ΔR [mΩ]	0.54	0.74	0.59	1.34	0.59	0.36	0.40	0.39	1.11	0.36	0.04	0.49	0.34	0.07	0.15	0.89	0.14	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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CP1	TABLE: Final measurements (Contact resistance)																	P	
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
7	$\Delta U2$ [mV]	0.670	0.708	0.653	0.662	0.668	0.689	0.682	0.706	0.706	0.681	0.660	0.702	0.738	0.714	0.601	0.601	0.751	P
	R2 [mΩ]	6.70	7.08	6.53	6.62	6.68	6.89	6.82	7.06	7.06	6.81	6.60	7.02	7.38	7.14	6.01	6.01	7.51	
	ΔR [mΩ]	0.54	0.82	0.79	0.53	0.70	0.54	0.56	0.42	0.01	0.91	0.78	0.35	0.01	0.42	0.40	0.38	0.67	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
8	$\Delta U2$ [mV]	0.675	0.610	0.632	0.676	0.602	0.649	0.707	0.707	0.730	0.692	0.642	0.725	0.705	0.619	0.648	0.681	0.710	P
	R2 [mΩ]	6.75	6.10	6.32	6.76	6.02	6.49	7.07	7.07	7.30	6.92	6.42	7.25	7.05	6.19	6.48	6.81	7.10	
	ΔR [mΩ]	1.00	0.98	0.90	0.79	0.76	0.60	0.88	0.86	0.92	0.70	0.51	0.84	0.44	0.53	0.69	0.68	0.82	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
9	$\Delta U2$ [mV]	0.631	0.685	0.721	0.761	0.831	0.762	0.642	0.669	0.597	0.732	0.662	0.676	0.649	0.556	0.638	0.705	0.639	P
	R2 [mΩ]	6.30	6.81	7.25	7.61	8.31	7.62	6.40	6.69	5.97	7.30	6.62	6.76	6.49	5.56	6.38	7.05	6.39	
	ΔR [mΩ]	0.96	1.12	0.93	1.39	1.39	1.35	0.62	0.57	0.47	1.35	1.03	1.10	0.61	0.57	1.53	0.08	0.36	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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CP2	TABLE: Final measurements (Contact resistance)																	P	
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2 - R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
7	$\Delta U2$ [mV]	0.677	0.682	0.640	0.676	0.697	0.697	0.675	0.716	0.672	0.656	0.636	0.704	0.719	0.730	0.613	0.644	0.718	P
	R2 [mΩ]	6.77	6.82	6.40	6.76	6.97	6.97	6.75	7.16	6.72	6.56	6.36	7.04	7.19	7.30	6.13	6.44	7.18	
	ΔR [mΩ]	0.61	0.56	0.66	0.67	0.99	0.62	0.49	0.52	0.67	0.66	0.54	0.37	0.82	0.58	0.52	0.81	0.34	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
8	$\Delta U2$ [mV]	0.666	0.565	0.620	0.653	0.604	0.651	0.673	0.699	0.698	0.713	0.638	0.717	0.732	0.624	0.639	0.667	0.677	P
	R2 [mΩ]	6.66	5.65	6.20	6.53	6.04	6.51	6.73	6.91	6.98	7.13	6.38	7.17	7.32	6.24	6.39	6.67	6.77	
	ΔR [mΩ]	0.91	0.53	0.78	0.56	0.78	0.62	0.54	0.70	0.60	0.91	0.47	0.76	0.71	0.58	0.60	0.54	0.49	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
9	$\Delta U2$ [mV]	0.616	0.698	0.693	0.681	0.746	0.664	0.692	0.645	0.638	0.727	0.650	0.613	0.724	0.633	0.690	0.624	0.654	P
	R2 [mΩ]	6.16	6.98	6.93	6.81	7.46	6.64	6.92	6.45	6.38	7.27	6.50	6.13	7.24	6.33	6.90	6.24	6.54	
	ΔR [mΩ]	0.82	1.29	0.61	0.59	0.54	0.37	1.14	0.33	0.88	1.32	0.91	0.47	1.36	1.34	1.05	0.27	0.51	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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Clause	Requirement + Test	Result - Remark	Verdict
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CP3		TABLE: Final measurements (Contact resistance)																	P
Test current :											0.1 A								—
Condition..... :											$\Delta R = R2 - R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
7	$\Delta U2$ [mV]	0.680	0.663	0.656	0.676	0.652	0.689	0.681	0.713	0.647	0.652	0.635	0.765	0.676	0.747	0.638	0.637	0.739	P
	R2 [mΩ]	6.80	6.63	6.56	6.76	6.52	6.89	6.81	7.13	6.47	6.52	6.35	7.65	6.76	7.47	6.38	6.37	7.39	
	ΔR [mΩ]	0.64	0.37	0.82	0.67	0.54	0.54	0.55	0.49	0.42	0.62	0.53	0.98	0.39	0.75	0.77	0.74	0.55	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
8	$\Delta U2$ [mV]	0.630	0.569	0.631	0.681	0.569	0.683	0.685	0.675	0.692	0.669	0.652	0.722	0.724	0.626	0.645	0.690	0.711	P
	R2 [mΩ]	6.30	5.69	6.31	6.81	5.69	6.83	6.85	6.75	6.92	6.69	6.52	7.22	7.24	6.26	6.45	6.90	7.11	
	ΔR [mΩ]	0.55	0.57	0.89	0.84	0.43	0.94	0.66	0.54	0.54	0.47	0.61	0.81	0.63	0.60	0.66	0.77	0.83	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
9	$\Delta U2$ [mV]	0.644	0.666	0.754	0.712	0.718	0.706	0.674	0.651	0.663	0.669	0.613	0.654	0.629	0.580	0.692	0.653	0.696	P
	R2 [mΩ]	6.44	6.66	7.54	7.12	7.18	7.06	6.74	6.51	6.63	6.69	6.13	6.54	6.29	5.80	6.92	6.53	6.96	
	ΔR [mΩ]	1.10	0.97	1.22	0.90	0.26	0.79	0.96	0.39	1.13	0.74	0.54	0.88	0.41	0.81	0.07	0.56	0.93	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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Clause	Requirement + Test	Result - Remark	Verdict
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DP1	TABLE: Final measurements (Contact resistance)																	P	
Test current :											0.1 A							—	
Condition..... :											$\Delta R = R2-R1$								
Test sample 17PIN	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	—
10	$\Delta U2$ [mV]	0.665	0.655	0.574	0.649	0.730	0.700	0.633	0.696	0.760	0.637	0.634	0.628	0.683	0.590	0.645	0.672	0.705	P
	R2 [mΩ]	6.65	6.55	5.74	6.49	7.30	7.00	6.33	6.96	7.60	6.37	6.34	6.28	6.83	5.90	6.45	6.72	7.05	
	ΔR [mΩ]	0.71	0.41	0.42	0.54	0.79	1.02	0.96	0.58	0.85	0.49	0.41	0.96	0.91	0.68	0.34	0.80	0.89	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
11	$\Delta U2$ [mV]	0.622	0.702	0.641	0.627	0.701	0.583	0.643	0.7330	0.647	0.645	0.578	0.687	0.675	0.680	0.671	0.653	0.6991	P
	R2 [mΩ]	6.22	7.02	6.41	6.27	7.01	5.83	6.43	7.30	6.47	6.45	5.78	6.87	6.75	6.80	6.71	6.53	6.91	
	ΔR [mΩ]	0.89	0.89	0.75	0.54	0.88	0.54	0.40	0.99	0.63	0.46	0.61	0.97	0.67	0.65	0.48	0.81	0.56	
	Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
12	$\Delta U2$ [mV]	0.576	0.666	0.694	0.692	0.682	0.666	0.669	0.712	0.581	0.672	0.675	0.712	0.698	0.657	0.7441	0.672	0.7771	P
	R2 [mΩ]	5.76	6.60	6.94	6.92	6.82	6.66	6.69	7.12	5.81	6.72	6.75	7.12	6.98	6.57	7.41	6.72	7.71	
	ΔR [mΩ]	0.34	1.37	0.43	1.21	0.66	0.73	0.41	1.33	0.50	0.57	1.32	1.31	0.93	0.64	1.34	0.74	1.17	
supplementary information: Max contact resistance for combination match as 120117-03-008 match 120117-04-001																			

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Clause	Requirement + Test	Result - Remark	Verdict

P3	TABLE: Initial measurements (Contact resistance) 10 mΩ max.							P
Test current :				0.1 A				—
Test sample A	Contact	1	2	3	4			—
1	ΔU1 [mV]	0.952	0.764	0.980	0.908			P
	R1 [mΩ]	9.52	7.64	9.80	9.08			
	Contact	1	2	3	4			—
2	ΔU1 [mV]	0.910	0.818	0.840	0.720			P
	R1 [mΩ]	9.10	8.18	8.40	7.20			
	Contact	1	2	3	4			—
3	ΔU1 [mV]	0.812	0.858	0.941	0.878			P
	R1 [mΩ]	8.12	8.58	9.41	8.78			
	Contact	1	2	3	4			—
4	ΔU1 [mV]	0.978	0.921	0.944	0.980			P
	R1 [mΩ]	9.78	9.21	9.44	9.80			
	Contact	1	2	3	4			—
5	ΔU1 [mV]	0.903	0.930	0.901	0.753			P
	R1 [mΩ]	9.03	9.30	9.01	7.53			
	Contact	1	2	3	4			—
6	ΔU1 [mV]	0.991	0.908	0.911	0.923			P
	R1 [mΩ]	9.91	9.08	9.11	9.23			

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Clause	Requirement + Test	Result - Remark	Verdict
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	Contact	1	2	3	4			—
7	$\Delta U1$ [mV]	0.986	0.956	0.987	0.916			P
	R1 [m Ω]	9.86	9.56	9.87	9.16			
	Contact	1	2	3	4			—
8	$\Delta U1$ [mV]	0.919	0.804	0.684	0.841			P
	R1 [m Ω]	9.19	8.04	6.84	8.41			
	Contact	1	2	3	4			—
9	$\Delta U1$ [mV]	0.924	0.855	0.972	0.986			P
	R1 [m Ω]	9.24	8.55	9.72	9.86			
	Contact	1	2	3	4			—
10	$\Delta U1$ [mV]	0.827	0.981	0.872	0.982			P
	R1 [m Ω]	8.27	9.81	8.72	9.82			
	Contact	1	2	3	4			—
11	$\Delta U1$ [mV]	0.971	0.948	0.982	0.947			P
	R1 [m Ω]	9.71	9.48	9.82	9.47			
	Contact	1	2	3	4			—
12	$\Delta U1$ [mV]	0.914	0.913	0.912	0.916			
	R1 [m Ω]	9.14	9.13	9.12	9.16			

supplementary information: Max contact resistance for combination match as 120104-01-034 match
120104-02-041

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Clause	Requirement + Test	Result - Remark	Verdict

P4-P5	1.3 TABLE: Voltage proof / Insulation resistance			P
	Insulation resistance R (MΩ) 500 V ± 15 V d.c.	Voltage proof U (V)		
	Between contacts and metal-housing 10 ⁸ Ω min.	Between contacts 1400V	Between contacts and metal-housing 1400V	
1	4×10 ⁹	Pass	Pass	
2	6×10 ⁹	Pass	Pass	
3	5×10 ⁹	Pass	Pass	
4	7×10 ⁹	Pass	Pass	
5	3×10 ⁹	Pass	Pass	
6	4×10 ⁹	Pass	Pass	
7	5×10 ⁹	Pass	Pass	
8	5×10 ⁹	Pass	Pass	
9	6×10 ⁹	Pass	Pass	
10	4×10 ⁹	Pass	Pass	
11	2×10 ⁹	Pass	Pass	
12	7×10 ⁹	Pass	Pass	
supplementary information: :				

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Clause	Requirement + Test	Result - Remark	Verdict

AP3	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
1	$\Delta U2$ [mV]	1.021	0.797	1.079	1.094			P
	R2 [mΩ]	10.21	7.97	10.79	10.94			
	ΔR [mΩ]	0.69	0.33	0.99	1.86			
	Contact	1	2	3	4			
2	$\Delta U2$ [mV]	1.001	0.896	0.938	0.793			P
	R2 [mΩ]	10.01	8.96	9.38	7.93			
	ΔR [mΩ]	0.91	0.78	0.98	0.73			
	Contact	1	2	3	4			
3	$\Delta U2$ [mV]	0.897	0.897	1.041	0.913			P
	R2 [mΩ]	8.97	8.97	10.41	9.13			
	ΔR [mΩ]	0.85	0.39	1.00	0.35			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

AP4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
1	$\Delta U2$ [mV]	0.991	0.813	1.027	1.054			P
	R2 [mΩ]	9.91	8.13	10.27	10.54			
	ΔR [mΩ]	0.39	0.49	0.47	1.46			
	Contact	1	2	3	4			
2	$\Delta U2$ [mV]	0.941	0.869	0.915	0.818			P
	R2 [mΩ]	9.41	8.69	9.15	8.18			
	ΔR [mΩ]	0.31	0.51	0.75	0.98			
	Contact	1	2	3	4			
3	$\Delta U2$ [mV]	0.851	0.907	1.011	0.934			P
	R2 [mΩ]	8.51	9.07	10.11	9.34			
	ΔR [mΩ]	0.39	0.49	0.70	0.56			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

AP5	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R =R2-R1$				
Test sample A	Contact	1	2	3	4			—
1	$\Delta U2$ [mV]	1.047	0.853	1.074	1.092			P
	R2 [mΩ]	10.47	8.53	10.74	10.92			
	ΔR [mΩ]	0.95	0.89	0.94	1.84			
	Contact	1	2	3	4			
2	$\Delta U2$ [mV]	1.004	0.896	0.938	0.755			P
	R2 [mΩ]	10.04	8.96	9.38	7.55			
	ΔR [mΩ]	0.94	0.78	0.98	0.35			
	Contact	1	2	3	4			
3	$\Delta U2$ [mV]	0.847	0.962	1.01	0.952			P
	R2 [mΩ]	8.47	9.62	10.10	9.52			
	ΔR [mΩ]	0.35	1.04	0.69	0.74			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

AP6.4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
1	$\Delta U2$ [mV]	1.023	0.852	1.023	1.081			P
	R2 [m Ω]	10.23	8.52	10.23	10.81			
	ΔR [m Ω]	0.71	0.88	0.43	1.73			
	Contact	1	2	3	4			
2	$\Delta U2$ [mV]	0.947	0.907	0.932	0.775			P
	R2 [m Ω]	9.47	9.07	9.32	7.75			
	ΔR [m Ω]	0.37	0.89	0.92	0.55			
	Contact	1	2	3	4			
3	$\Delta U2$ [mV]	0.854	0.955	1.033	0.966			P
	R2 [m Ω]	8.54	9.55	10.33	9.66			
	ΔR [m Ω]	0.42	0.97	0.92	0.88			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

AP7	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
1	$\Delta U2$ [mV]	1.040	0.847	1.079	1.102			P
	R2 [mΩ]	10.40	8.47	10.79	11.02			
	ΔR [mΩ]	0.88	0.83	0.99	1.94			
	Contact	1	2	3	4			
2	$\Delta U2$ [mV]	1.011	0.871	0.872	0.783			P
	R2 [mΩ]	10.11	8.71	8.72	7.83			
	ΔR [mΩ]	1.01	0.53	0.32	0.63			
	Contact	1	2	3	4			
3	$\Delta U2$ [mV]	0.907	0.961	1.011	0.914			P
	R2 [mΩ]	9.07	9.61	10.11	9.14			
	ΔR [mΩ]	0.95	1.03	0.70	0.36			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

BP2	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
4	$\Delta U2$ [mV]	1.015	1.057	1.152	1.069			P
	R2 [mΩ]	10.15	10.57	11.52	10.69			
	ΔR [mΩ]	0.37	1.36	2.08	0.89			
	Contact	1	2	3	4			
5	$\Delta U2$ [mV]	1.063	1.067	0.963	0.845			P
	R2 [mΩ]	10.63	10.67	9.63	8.45			
	ΔR [mΩ]	1.60	1.37	0.62	0.92			
	Contact	1	2	3	4			
6	$\Delta U2$ [mV]	1.026	1.004	1.088	1.13			P
	R2 [mΩ]	10.26	10.04	10.88	11.30			
	ΔR [mΩ]	0.35	0.96	1.77	2.07			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

BP3.1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
4	$\Delta U2$ [mV]	1.043	1.081	1.079	1.080			P
	R2 [mΩ]	10.43	10.81	10.79	10.80			
	ΔR [mΩ]	0.65	1.60	1.35	1.00			
	Contact	1	2	3	4			
5	$\Delta U2$ [mV]	1.067	1.075	0.968	0.817			P
	R2 [mΩ]	10.67	10.75	9.68	8.17			
	ΔR [mΩ]	1.64	1.45	0.67	0.64			
	Contact	1	2	3	4			
6	$\Delta U2$ [mV]	1.061	1.009	1.119	1.115			P
	R2 [mΩ]	10.61	10.09	11.19	11.15			
	ΔR [mΩ]	0.70	1.01	2.08	1.92			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

BP4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
4	$\Delta U2$ [mV]	1.064	1.105	1.130	1.043			P
	R2 [mΩ]	10.64	11.05	11.30	10.43			
	ΔR [mΩ]	0.86	1.84	1.86	0.63			
	Contact	1	2	3	4			
5	$\Delta U2$ [mV]	1.064	1.094	1.008	0.797			P
	R2 [mΩ]	10.64	10.94	10.08	7.97			
	ΔR [mΩ]	1.61	1.64	1.07	0.44			
	Contact	1	2	3	4			
6	$\Delta U2$ [mV]	1.028	0.993	1.101	1.126			P
	R2 [mΩ]	10.28	9.93	11.01	11.26			
	ΔR [mΩ]	0.37	0.85	1.90	2.03			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

CP1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
7	$\Delta U2$ [mV]	1.084	1.023	1.142	0.982			P
	R2 [m Ω]	10.84	10.23	11.42	9.82			
	ΔR [m Ω]	0.98	0.67	1.55	0.66			
	Contact	1	2	3	4			
8	$\Delta U2$ [mV]	1.011	0.877	0.767	0.899			P
	R2 [m Ω]	10.11	8.77	7.67	8.99			
	ΔR [m Ω]	0.92	0.73	0.83	0.58			
	Contact	1	2	3	4			
9	$\Delta U2$ [mV]	1.187	0.923	1.012	1.029			P
	R2 [m Ω]	11.87	9.23	10.12	10.29			
	ΔR [m Ω]	2.63	0.68	0.40	0.43			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

CP2	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
7	$\Delta U2$ [mV]	1.037	1.059	1.141	1.004			P
	R2 [mΩ]	10.37	10.59	11.41	10.04			
	ΔR [mΩ]	0.51	1.03	1.54	0.88			
	Contact	1	2	3	4			
8	$\Delta U2$ [mV]	1.023	0.877	0.765	0.934			P
	R2 [mΩ]	10.23	8.77	7.65	9.34			
	ΔR [mΩ]	1.04	0.73	0.81	0.93			
	Contact	1	2	3	4			
9	$\Delta U2$ [mV]	1.211	0.918	1.017	1.071			P
	R2 [mΩ]	12.11	9.18	10.17	10.71			
	ΔR [mΩ]	2.87	0.63	0.45	0.85			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

CP3	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
7	$\Delta U2$ [mV]	1.063	0.988	1.136	1.016			P
	R2 [m Ω]	10.63	9.88	11.36	10.16			
	ΔR [m Ω]	0.77	0.32	1.49	1.00			
	Contact	1	2	3	4			
8	$\Delta U2$ [mV]	0.999	0.908	0.783	0.943			P
	R2 [m Ω]	9.99	9.08	7.83	9.43			
	ΔR [m Ω]	0.80	1.04	0.99	1.02			
	Contact	1	2	3	4			
9	$\Delta U2$ [mV]	1.156	0.942	1.029	1.075			P
	R2 [m Ω]	11.56	9.42	10.29	10.75			
	ΔR [m Ω]	2.32	0.87	0.57	0.89			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict

DP1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample A	Contact	1	2	3	4			—
10	$\Delta U2$ [mV]	0.918	1.147	0.911	1.087			P
	R2 [mΩ]	9.18	11.47	9.11	10.87			
	ΔR [mΩ]	0.91	1.66	0.39	1.05			
	Contact	1	2	3	4			
11	$\Delta U2$ [mV]	1.050	1.053	1.329	1.129			P
	R2 [mΩ]	10.50	10.53	13.29	11.29			
	ΔR [mΩ]	0.79	1.05	3.47	1.82			
	Contact	1	2	3	4			
12	$\Delta U2$ [mV]	0.959	1.291	1.1	1.287			P
	R2 [mΩ]	9.59	12.91	11.00	12.87			
	ΔR [mΩ]	0.45	3.78	1.88	3.71			
supplementary information: Max contact resistance for combination match as 120104-01-034 match 120104-02-041								

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Clause	Requirement + Test	Result - Remark	Verdict
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P3	TABLE: Initial measurements (Contact resistance) 10 mΩ max.							P
Test current :				0.1 A				—
Test sample B	Contact	1	2	3	4	5		—
1	ΔU1 [mV]	0.662	0.675	0.643	0.633	0.668		P
	R1 [mΩ]	6.62	6.75	6.43	6.33	6.68		
	Contact	1	2	3	4	5		—
2	ΔU1 [mV]	0.622	0.642	0.603	0.632	0.641		P
	R1 [mΩ]	6.22	6.42	6.03	6.32	6.41		
	Contact	1	2	3	4	5		—
3	ΔU1 [mV]	0.623	0.672	0.618	0.653	0.634		P
	R1 [mΩ]	6.23	6.72	6.18	6.53	6.34		
	Contact	1	2	3	4	5		—
4	ΔU1 [mV]	0.675	0.664	0.642	0.651	0.614		P
	R1 [mΩ]	6.75	6.64	6.42	6.51	6.14		
	Contact	1	2	3	4	5		—
5	ΔU1 [mV]	0.64	0.67	0.623	0.633	0.613		P
	R1 [mΩ]	6.40	6.70	6.23	6.33	6.13		
	Contact	1	2	3	4	5		—
6	ΔU1 [mV]	0.592	0.619	0.612	0.645	0.636		P
	R1 [mΩ]	5.92	6.19	6.12	6.45	6.36		

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Clause	Requirement + Test				Result - Remark			Verdict
	Contact	1	2	3	4	5		—
7	$\Delta U1$ [mV]	0.611	0.63	0.622	0.623	0.607		P
	R1 [m Ω]	6.11	6.30	6.22	6.23	6.07		
	Contact	1	2	3	4	5		—
8	$\Delta U1$ [mV]	0.621	0.622	0.613	0.661	0.63		P
	R1 [m Ω]	6.21	6.22	6.13	6.61	6.30		
	Contact	1	2	3	4	5		—
9	$\Delta U1$ [mV]	0.652	0.66	0.65	0.659	0.661		P
	R1 [m Ω]	6.52	6.60	6.50	6.59	6.61		
	Contact	1	2	3	4	5		—
10	$\Delta U1$ [mV]	0.627	0.627	0.635	0.632	0.62		P
	R1 [m Ω]	6.27	6.27	6.35	6.32	6.20		
	Contact	1	2	3	4	5		—
11	$\Delta U1$ [mV]	0.627	0.637	0.635	0.628	0.613		P
	R1 [m Ω]	6.27	6.37	6.35	6.28	6.13		
	Contact	1	2	3	4	5		—
12	$\Delta U1$ [mV]	0.6	0.643	0.62	0.635	0.645		
	R1 [m Ω]	6.00	6.43	6.20	6.35	6.45		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

P4-P5	1.4 TABLE: Voltage proof / Insulation resistance			P
	Insulation resistance R (MΩ) 500 V ± 15 V d.c.	Voltage proof U (V)		
	Between contacts and metal-housing 10 ⁸ Ω min.	Between contacts 1400V	Between contacts and metal-housing 1400V	
1	4×10 ⁹	Pass	Pass	
2	6×10 ⁹	Pass	Pass	
3	5×10 ⁹	Pass	Pass	
4	9×10 ⁹	Pass	Pass	
5	5×10 ⁹	Pass	Pass	
6	5×10 ⁹	Pass	Pass	
7	9×10 ⁹	Pass	Pass	
8	7×10 ⁹	Pass	Pass	
9	3×10 ⁹	Pass	Pass	
10	4×10 ⁹	Pass	Pass	
11	8×10 ⁹	Pass	Pass	
12	6×10 ⁹	Pass	Pass	
supplementary information:				

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Clause	Requirement + Test	Result - Remark	Verdict

AP3	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
1	$\Delta U2$ [mV]	0.723	0.754	0.693	0.676	0.743		P
	R2 [mΩ]	7.23	7.54	6.93	6.76	7.43		
	ΔR [mΩ]	0.61	0.79	0.50	0.43	0.75		
	Contact	1	2	3	4	5		
2	$\Delta U2$ [mV]	0.653	0.698	0.641	0.701	0.690		P
	R2 [mΩ]	6.53	6.98	6.41	7.01	6.90		
	ΔR [mΩ]	0.31	0.56	0.38	0.69	0.49		
	Contact	1	2	3	4	5		
3	$\Delta U2$ [mV]	0.663	0.725	0.651	0.685	0.663		P
	R2 [mΩ]	6.63	7.25	6.51	6.85	6.63		
	ΔR [mΩ]	0.40	0.53	0.33	0.32	0.29		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

AP4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
1	$\Delta U2$ [mV]	0.718	0.724	0.709	0.678	0.739		P
	R2 [mΩ]	7.18	7.24	7.09	6.78	7.39		
	ΔR [mΩ]	0.56	0.49	0.66	0.45	0.71		
	Contact	1	2	3	4	5		
2	$\Delta U2$ [mV]	0.662	0.685	0.683	0.708	0.732		P
	R2 [mΩ]	6.62	6.85	6.83	7.08	7.32		
	ΔR [mΩ]	0.40	0.43	0.80	0.76	0.91		
	Contact	1	2	3	4	5		
3	$\Delta U2$ [mV]	0.705	0.698	0.646	0.73	0.69		P
	R2 [mΩ]	7.05	6.98	6.46	7.30	6.90		
	ΔR [mΩ]	0.82	0.26	0.28	0.77	0.56		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

AP5	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
1	$\Delta U2$ [mV]	0.724	0.709	0.725	0.712	0.725		P
	R2 [mΩ]	7.24	7.09	7.25	7.12	7.25		
	ΔR [mΩ]	0.62	0.34	0.82	0.79	0.57		
	Contact	1	2	3	4	5		
2	$\Delta U2$ [mV]	0.678	0.716	0.680	0.699	0.717		P
	R2 [mΩ]	6.78	7.16	6.80	6.99	7.17		
	ΔR [mΩ]	0.56	0.74	0.77	0.67	0.76		
	Contact	1	2	3	4	5		
3	$\Delta U2$ [mV]	0.673	0.725	0.702	0.709	0.667		P
	R2 [mΩ]	6.73	7.25	7.02	7.09	6.67		
	ΔR [mΩ]	0.50	0.53	0.84	0.56	0.33		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

AP6.4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
1	$\Delta U2$ [mV]	0.747	0.734	0.703	0.717	0.713		P
	R2 [mΩ]	7.47	7.34	7.03	7.17	7.13		
	ΔR [mΩ]	0.85	0.59	0.60	0.84	0.45		
	Contact	1	2	3	4	5		
2	$\Delta U2$ [mV]	0.711	0.685	0.659	0.673	0.694		P
	R2 [mΩ]	7.11	6.85	6.59	6.73	6.94		
	ΔR [mΩ]	0.89	0.43	0.56	0.41	0.53		
	Contact	1	2	3	4	5		
3	$\Delta U2$ [mV]	0.684	0.774	0.672	0.706	0.664		P
	R2 [mΩ]	6.84	7.74	6.72	7.06	6.64		
	ΔR [mΩ]	0.61	1.02	0.54	0.53	0.30		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

AP7	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
1	$\Delta U2$ [mV]	0.732	0.718	0.676	0.715	0.712		P
	R2 [m Ω]	7.32	7.18	6.76	7.15	7.12		
	ΔR [m Ω]	0.70	0.43	0.33	0.82	0.44		
	Contact	1	2	3	4	5		
2	$\Delta U2$ [mV]	0.707	0.725	0.652	0.732	0.727		P
	R2 [m Ω]	7.07	7.25	6.52	7.32	7.27		
	ΔR [m Ω]	0.85	0.83	0.49	1.00	0.86		
	Contact	1	2	3	4	5		
3	$\Delta U2$ [mV]	0.719	0.716	0.654	0.711	0.705		P
	R2 [m Ω]	7.19	7.16	6.54	7.11	7.05		
	ΔR [m Ω]	0.96	0.44	0.36	0.58	0.71		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

BP2	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
4	$\Delta U2$ [mV]	0.717	0.707	0.677	0.723	0.680		P
	R2 [m Ω]	7.17	7.07	6.77	7.23	6.80		
	ΔR [m Ω]	0.42	0.43	0.35	0.72	0.66		
	Contact	1	2	3	4	5		
5	$\Delta U2$ [mV]	0.671	0.721	0.724	0.665	0.669		P
	R2 [m Ω]	6.71	7.21	7.24	6.65	6.69		
	ΔR [m Ω]	0.31	0.51	1.01	0.32	0.56		
	Contact	1	2	3	4	5		
6	$\Delta U2$ [mV]	0.629	0.685	0.706	0.749	0.729		P
	R2 [m Ω]	6.29	6.85	7.06	7.49	7.29		
	ΔR [m Ω]	0.37	0.66	0.94	1.04	0.93		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

BP3.1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
4	$\Delta U2$ [mV]	0.717	0.707	0.677	0.723	0.680		P
	R2 [mΩ]	7.17	7.07	6.77	7.23	6.80		
	ΔR [mΩ]	0.42	0.43	0.35	0.72	0.66		
	Contact	1	2	3	4	5		
5	$\Delta U2$ [mV]	0.671	0.721	0.724	0.665	0.669		P
	R2 [mΩ]	6.71	7.21	7.24	6.65	6.69		
	ΔR [mΩ]	0.31	0.51	1.01	0.32	0.56		
	Contact	1	2	3	4	5		
6	$\Delta U2$ [mV]	0.629	0.685	0.706	0.749	0.729		P
	R2 [mΩ]	6.29	6.85	7.06	7.49	7.29		
	ΔR [mΩ]	0.37	0.66	0.94	1.04	0.93		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

BP4	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R =R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
4	$\Delta U2$ [mV]	0.717	0.707	0.677	0.723	0.680		P
	R2 [mΩ]	7.17	7.07	6.77	7.23	6.80		
	ΔR [mΩ]	0.42	0.43	0.35	0.72	0.66		
	Contact	1	2	3	4	5		
5	$\Delta U2$ [mV]	0.671	0.721	0.724	0.665	0.669		P
	R2 [mΩ]	6.71	7.21	7.24	6.65	6.69		
	ΔR [mΩ]	0.31	0.51	1.01	0.32	0.56		
	Contact	1	2	3	4	5		
6	$\Delta U2$ [mV]	0.629	0.685	0.706	0.749	0.729		P
	R2 [mΩ]	6.29	6.85	7.06	7.49	7.29		
	ΔR [mΩ]	0.37	0.66	0.94	1.04	0.93		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

CP1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
7	$\Delta U2$ [mV]	0.654	0.712	0.704	0.690	0.670		P
	R2 [m Ω]	6.54	7.12	7.04	6.90	6.70		
	ΔR [m Ω]	0.43	0.82	0.82	0.67	0.63		
	Contact	1	2	3	4	5		
8	$\Delta U2$ [mV]	0.692	0.671	0.719	0.699	0.717		P
	R2 [m Ω]	6.92	6.71	7.19	6.99	7.17		
	ΔR [m Ω]	0.71	0.49	1.06	0.38	0.87		
	Contact	1	2	3	4	5		
9	$\Delta U2$ [mV]	0.69	0.738	0.714	0.726	0.75		P
	R2 [m Ω]	6.90	7.38	7.14	7.26	7.50		
	ΔR [m Ω]	0.38	0.78	0.64	0.67	0.89		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

CP2	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
7	$\Delta U2$ [mV]	0.669	0.708	0.668	0.688	0.672		P
	R2 [mΩ]	6.69	7.08	6.68	6.88	6.72		
	ΔR [mΩ]	0.58	0.78	0.46	0.65	0.65		
	Contact	1	2	3	4	5		
8	$\Delta U2$ [mV]	0.712	0.722	0.671	0.699	0.736		P
	R2 [mΩ]	7.12	7.22	6.71	6.99	7.36		
	ΔR [mΩ]	0.91	1.00	0.58	0.38	1.06		
	Contact	1	2	3	4	5		
9	$\Delta U2$ [mV]	0.731	0.716	0.696	0.761	0.689		P
	R2 [mΩ]	7.31	7.16	6.96	7.61	6.89		
	ΔR [mΩ]	0.79	0.56	0.46	1.02	0.28		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

CP3	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
7	$\Delta U2$ [mV]	0.659	0.673	0.685	0.686	0.675		P
	R2 [m Ω]	6.59	6.73	6.85	6.86	6.75		
	ΔR [m Ω]	0.48	0.43	0.63	0.63	0.68		
	Contact	1	2	3	4	5		
8	$\Delta U2$ [mV]	0.715	0.655	0.690	0.764	0.675		P
	R2 [m Ω]	7.15	6.55	6.90	7.64	6.75		
	ΔR [m Ω]	0.94	0.33	0.77	1.03	0.45		
	Contact	1	2	3	4	5		
9	$\Delta U2$ [mV]	0.693	0.692	0.681	0.74	0.719		P
	R2 [m Ω]	6.93	6.92	6.81	7.40	7.19		
	ΔR [m Ω]	0.41	0.32	0.31	0.81	0.58		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict

DP1	TABLE: Final measurements (Contact resistance)							P
Test current :				0.1 A				—
Condition..... :				$\Delta R = R2-R1$				
Test sample B	Contact	1	2	3	4	5		—
10	$\Delta U2$ [mV]	0.675	0.673	0.692	0.668	0.686		P
	R2 [m Ω]	6.75	6.73	6.92	6.68	6.86		
	ΔR [m Ω]	0.48	0.46	0.57	0.36	0.66		
	Contact	1	2	3	4	5		
11	$\Delta U2$ [mV]	0.662	0.732	0.686	0.735	0.712		P
	R2 [m Ω]	6.62	7.32	6.86	7.35	7.12		
	ΔR [m Ω]	0.35	0.95	0.51	1.07	0.99		
	Contact	1	2	3	4	5		
12	$\Delta U2$ [mV]	0.644	0.691	0.665	0.699	0.723		P
	R2 [m Ω]	6.44	6.91	6.65	6.99	7.23		
	ΔR [m Ω]	0.44	0.48	0.45	0.64	0.78		
supplementary information: Max contact resistance for combination match as 120105-03-007 match 120105-06-600								

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Clause	Requirement + Test	Result - Remark	Verdict
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P3	TABLE: Initial measurements (Contact resistance) 10 mΩ max.									P
Test current					0.1 A					—
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	ΔU1 [mV]	0.963	0.978	0.914	0.999	0.901	0.923	0.967	0.881	P
	R1 [mΩ]	9.63	9.78	9.14	9.99	9.01	9.23	9.67	8.81	
	Contact	1	2	3	4	5	6	7	8	—
2	ΔU1 [mV]	0.930	0.936	0.993	0.886	0.943	0.963	0.940	0.953	P
	R1 [mΩ]	9.30	9.36	9.93	8.86	9.43	9.63	9.40	9.53	
	Contact	1	2	3	4	5	6	7	8	—
3	ΔU1 [mV]	0.978	0.909	0.951	0.903	0.909	0.996	0.979	0.944	P
	R1 [mΩ]	9.78	9.09	9.51	9.03	9.09	9.96	9.79	9.44	
	Contact	1	2	3	4	5	6	7	8	—
4	ΔU1 [mV]	0.949	0.971	0.932	0.943	0.958	0.901	0.998	0.901	P
	R1 [mΩ]	9.49	9.71	9.32	9.43	9.58	9.01	9.98	9.01	
	Contact	1	2	3	4	5	6	7	8	—
5	ΔU1 [mV]	0.947	0.921	0.831	0.921	0.893	0.916	0.929	0.889	P
	R1 [mΩ]	9.47	9.21	8.31	9.21	8.93	9.16	9.29	8.89	
	Contact	1	2	3	4	5	6	7	8	—
6	ΔU1 [mV]	0.987	0.946	0.967	0.962	0.928	0.989	0.920	0.958	P
	R1 [mΩ]	9.87	9.46	9.67	9.62	9.28	9.89	9.20	9.58	

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Clause	Requirement + Test	Result - Remark	Verdict
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	Contact	1	2	3	4	5	6	7	8	—
7	ΔU_1 [mV]	0.907	0.947	0.939	0.937	0.926	0.931	0.926	0.942	P
	R1 [m Ω]	9.07	9.47	9.39	9.37	9.26	9.31	9.26	9.42	
	Contact	1	2	3	4	5	6	7	8	—
8	ΔU_1 [mV]	0.987	0.923	0.931	0.993	0.969	0.980	0.932	0.915	P
	R1 [m Ω]	9.87	9.23	9.31	9.93	9.69	9.80	9.32	9.15	
	Contact	1	2	3	4	5	6	7	8	—
9	ΔU_1 [mV]	0.972	0.996	0.901	0.939	0.969	0.980	0.932	0.915	P
	R1 [m Ω]	9.72	9.96	9.01	9.39	9.69	9.80	9.32	9.15	
	Contact	1	2	3	4	5	6	7	8	—
10	ΔU_1 [mV]	0.921	0.933	0.826	0.948	0.844	0.918	0.915	0.858	P
	R1 [m Ω]	9.21	9.33	8.26	9.48	8.44	9.18	9.15	8.58	
	Contact	1	2	3	4	5	6	7	8	—
11	ΔU_1 [mV]	0.913	0.974	0.916	0.917	0.925	0.963	0.943	0.883	P
	R1 [m Ω]	9.13	9.74	9.16	9.17	9.25	9.63	9.43	8.83	
	Contact	1	2	3	4	5	6	7	8	—
12	ΔU_1 [mV]	0.968	0.922	0.928	0.956	0.931	0.930	0.932	0.901	
	R1 [m Ω]	9.68	9.22	9.28	9.56	9.31	9.30	9.32	9.01	
supplementary information: Max contact resistance for combination match as 120108-03-042 match 120108-06-600, 120108-04-029 match 120108-05-600 and 120108-05-600U match 120108-06-600										

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P4-P5	1.5 TABLE: Voltage proof / Insulation resistance			P
	Insulation resistance R (MΩ) 500 V ± 15 V d.c.	Voltage proof U (V)		
	Between contacts and metal-housing 10 ⁸ Ω min.	Between contacts 1400V	Between contacts and metal-housing 1400V	
1	4 × 10 ⁹	Pass	Pass	
2	6 × 10 ⁹	Pass	Pass	
3	5 × 10 ⁹	Pass	Pass	
4	7 × 10 ⁹	Pass	Pass	
5	3 × 10 ⁹	Pass	Pass	
6	4 × 10 ⁹	Pass	Pass	
7	5 × 10 ⁹	Pass	Pass	
8	5 × 10 ⁹	Pass	Pass	
9	6 × 10 ⁹	Pass	Pass	
10	4 × 10 ⁹	Pass	Pass	
11	2 × 10 ⁹	Pass	Pass	
12	7 × 10 ⁹	Pass	Pass	
supplementary information: :				

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Clause	Requirement + Test	Result - Remark	Verdict

AP3	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R = R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	$\Delta U2$ [mV]	1.162	1.083	0.945	1.057	0.965	1.057	1.033	0.983	P
	R2 [m Ω]	11.62	10.83	9.45	10.57	9.65	10.57	10.33	9.83	
	ΔR [m Ω]	2.13	1.12	0.13	1.14	0.07	1.56	0.35	0.82	
	Contact	1	2	3	4	5	6	7	8	
2	$\Delta U2$ [mV]	1.100	1.107	1.088	0.926	0.996	1.094	1.133	0.991	P
	R2 [m Ω]	11.00	11.07	10.88	9.26	9.96	10.94	11.33	9.91	
	ΔR [m Ω]	1.53	1.86	2.57	0.05	1.03	1.78	2.04	1.02	
	Contact	1	2	3	4	5	6	7	8	
3	$\Delta U2$ [mV]	1.077	1.11	1.055	1.088	0.998	1.032	1.054	1.041	P
	R2 [m Ω]	10.77	11.10	10.55	10.88	9.98	10.32	10.54	10.41	
	ΔR [m Ω]	0.90	1.64	0.88	1.26	0.70	0.43	1.34	0.83	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

AP4	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R = R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	$\Delta U2$ [mV]	1.097	1.040	0.956	1.055	0.968	1.109	1.049	0.943	P
	R2 [m Ω]	10.97	10.40	9.56	10.55	9.68	11.09	10.49	9.43	
	ΔR [m Ω]	1.34	0.62	0.42	0.56	0.67	1.86	0.82	0.62	
	Contact	1	2	3	4	5	6	7	8	
2	$\Delta U2$ [mV]	1.100	1.107	1.033	0.928	1.051	1.160	1.084	0.986	P
	R2 [m Ω]	11.00	11.07	10.33	9.28	10.51	11.60	10.84	9.86	
	ΔR [m Ω]	1.70	1.71	0.40	0.42	1.08	1.97	1.44	0.33	
	Contact	1	2	3	4	5	6	7	8	
3	$\Delta U2$ [mV]	1.037	1.197	1.051	1.039	1.01	1.165	1.054	1.133	P
	R2 [m Ω]	10.37	11.97	10.51	10.39	10.10	11.65	10.54	11.33	
	ΔR [m Ω]	0.59	2.88	1.00	1.36	1.01	1.69	0.75	1.89	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

AP5	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R =R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	$\Delta U2$ [mV]	1.107	1.029	0.972	1.095	0.938	1.085	1.062	0.979	P
	R2 [m Ω]	11.07	10.29	9.72	10.95	9.38	10.85	10.62	9.79	
	ΔR [m Ω]	1.44	0.51	0.58	0.96	0.37	1.62	0.95	0.98	
	Contact	1	2	3	4	5	6	7	8	
2	$\Delta U2$ [mV]	1.141	1.085	1.030	0.945	1.054	1.122	1.097	1.032	P
	R2 [m Ω]	11.41	10.85	10.30	9.45	10.54	11.22	10.97	10.32	
	ΔR [m Ω]	2.11	1.49	0.37	0.59	1.11	1.59	1.57	0.79	
	Contact	1	2	3	4	5	6	7	8	
3	$\Delta U2$ [mV]	1.124	1.117	0.999	1.029	1.108	1.106	1.17	1.123	P
	R2 [m Ω]	11.24	11.17	9.99	10.29	11.08	11.06	11.70	11.23	
	ΔR [m Ω]	1.46	2.08	0.48	1.26	1.99	1.10	1.91	1.79	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

AP6.4	TABLE: Final measurements (Contact resistance)									P
Test current :						0.1 A				—
Condition..... :						$\Delta R = R2-R1$				
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	$\Delta U2$ [mV]	1.119	1.070	0.972	1.035	1.002	1.057	1.030	0.915	P
	R2 [m Ω]	11.19	10.70	9.72	10.35	10.02	10.57	10.30	9.15	
	ΔR [m Ω]	1.56	0.92	0.58	0.36	1.01	1.34	0.63	0.34	
	Contact	1	2	3	4	5	6	7	8	
2	$\Delta U2$ [mV]	1.097	1.112	1.044	0.939	1.053	1.165	1.136	0.999	P
	R2 [m Ω]	10.97	11.12	10.44	9.39	10.53	11.65	11.36	9.99	
	ΔR [m Ω]	1.67	1.76	0.51	0.53	1.10	2.02	1.96	0.46	
	Contact	1	2	3	4	5	6	7	8	
3	$\Delta U2$ [mV]	1.166	1.132	1.071	1.103	1.009	1.16	1.142	1.059	P
	R2 [m Ω]	11.66	11.32	10.71	11.03	10.09	11.60	11.42	10.59	
	ΔR [m Ω]	1.88	2.23	1.20	2.00	1.00	1.64	1.63	1.15	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

AP7	TABLE: Final measurements (Contact resistance)									P
Test current :						0.1 A				—
Condition..... :						$\Delta R =R2-R1$				
Test sample C	Contact	1	2	3	4	5	6	7	8	—
1	$\Delta U2$ [mV]	1.166	1.058	0.988	1.101	0.961	1.116	1.045	0.915	P
	R2 [m Ω]	11.66	10.58	9.88	11.01	9.61	11.16	10.45	9.15	
	ΔR [m Ω]	2.03	0.80	0.74	1.02	0.60	1.93	0.78	0.34	
	Contact	1	2	3	4	5	6	7	8	
2	$\Delta U2$ [mV]	1.128	1.141	1.070	0.992	1.033	1.175	1.115	1.019	P
	R2 [m Ω]	11.28	11.41	10.70	9.92	10.33	11.75	11.15	10.19	
	ΔR [m Ω]	1.98	2.05	0.77	1.06	0.90	2.12	1.75	0.66	
	Contact	1	2	3	4	5	6	7	8	
3	$\Delta U2$ [mV]	1.151	1.108	1.013	1.182	1.086	1.122	1.056	1.11	P
	R2 [m Ω]	11.51	11.08	10.13	11.82	10.86	11.22	10.56	11.10	
	ΔR [m Ω]	1.73	1.99	0.62	2.79	1.77	1.26	0.77	1.66	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

BP2	TABLE: Final measurements (Contact resistance)									P
Test current :						0.1 A				—
Condition..... :						ΔR =R2-R1				
Test sample C	Contact	1	2	3	4	5	6	7	8	—
4	ΔU2 [mV]	1.054	1.159	1.004	1.125	1.010	1.080	1.099	0.965	P
	R2 [mΩ]	10.54	11.59	10.04	11.25	10.10	10.80	10.99	9.65	
	ΔR[mΩ]	1.05	1.88	0.72	1.82	0.52	1.79	1.01	0.64	
	Contact	1	2	3	4	5	6	7	8	
5	ΔU2 [mV]	1.021	1.028	0.911	0.973	0.943	0.977	1.002	0.986	P
	R2 [mΩ]	10.21	10.28	9.11	9.73	9.43	9.77	10.02	9.86	
	ΔR[mΩ]	0.74	1.07	0.80	0.52	0.50	0.61	0.73	0.97	
	Contact	1	2	3	4	5	6	7	8	
6	ΔU2 [mV]	1.075	1.152	1.142	1.094	1.112	1.026	1.163	1.138	P
	R2 [mΩ]	10.75	11.52	11.42	10.94	11.12	10.26	11.63	11.38	
	ΔR[mΩ]	0.88	2.06	1.75	0.32	1.84	0.37	1.43	1.80	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

BP3.1	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R = R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
4	$\Delta U2$ [mV]	1.015	1.147	0.999	1.112	1.039	1.094	1.087	0.933	P
	R2 [m Ω]	10.15	11.47	9.99	11.12	10.39	10.94	10.87	9.33	
	ΔR [m Ω]	0.66	1.76	0.67	0.69	0.81	0.93	0.89	0.32	
	Contact	1	2	3	4	5	6	7	8	
5	$\Delta U2$ [mV]	1.025	0.990	0.904	0.964	0.959	0.961	0.980	0.938	P
	R2 [m Ω]	10.25	9.90	9.04	9.64	9.59	9.61	9.80	9.38	
	ΔR [m Ω]	0.78	0.69	0.73	0.43	0.66	0.45	0.51	0.49	
	Contact	1	2	3	4	5	6	7	8	
6	$\Delta U2$ [mV]	1.1	1.086	1.074	1.139	0.973	1.064	1.086	1.023	P
	R2 [m Ω]	11.00	10.86	10.74	11.39	9.73	10.64	10.86	10.23	
	ΔR [m Ω]	1.13	1.40	1.07	1.77	0.45	0.75	1.66	0.65	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

BP4	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R =R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
4	$\Delta U2$ [mV]	1.027	1.163	1.029	1.104	0.993	1.096	1.066	0.975	P
	R2 [m Ω]	10.27	11.63	10.29	11.04	9.93	10.96	10.66	9.75	
	ΔR [m Ω]	0.78	1.92	0.97	0.61	0.35	0.95	0.68	0.74	
	Contact	1	2	3	4	5	6	7	8	
5	$\Delta U2$ [mV]	0.989	0.954	0.887	0.953	0.950	0.963	1.044	0.943	P
	R2 [m Ω]	9.89	9.54	8.87	9.53	9.50	9.63	10.44	9.43	
	ΔR [m Ω]	0.42	0.33	0.56	0.32	0.57	0.47	1.15	0.54	
	Contact	1	2	3	4	5	6	7	8	
6	$\Delta U2$ [mV]	1.159	1.17	1.063	1.23	1.068	1.182	1.155	0.984	P
	R2 [m Ω]	11.59	11.70	10.63	12.30	10.68	11.82	11.55	9.84	
	ΔR [m Ω]	1.72	2.24	0.96	2.68	1.40	1.93	2.35	0.26	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

CP1	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R = R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
7	$\Delta U2$ [mV]	1.063	1.096	1.100	1.097	0.962	1.208	1.118	1.034	P
	R2 [m Ω]	10.63	10.96	11.00	10.97	9.62	12.08	11.18	10.34	
	ΔR [m Ω]	1.56	1.49	1.61	1.60	0.36	2.77	1.92	0.92	
	Contact	1	2	3	4	5	6	7	8	
8	$\Delta U2$ [mV]	1.099	1.111	1.045	1.132	1.016	1.166	1.098	1.021	P
	R2 [m Ω]	10.99	11.11	10.45	11.32	10.16	11.66	10.98	10.21	
	ΔR [m Ω]	1.12	1.88	1.14	1.39	0.47	1.86	1.66	1.06	
	Contact	1	2	3	4	5	6	7	8	
9	$\Delta U2$ [mV]	1.048	1.103	0.987	1.091	1.061	1.213	1.193	1.054	P
	R2 [m Ω]	10.48	11.03	9.87	10.91	10.61	12.13	11.93	10.54	
	ΔR [m Ω]	0.76	1.07	0.86	1.52	0.92	2.33	2.61	1.39	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

CP2	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R =R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
7	$\Delta U2$ [mV]	1.062	1.097	1.100	1.097	0.962	1.208	1.118	1.034	P
	R2 [m Ω]	10.62	10.97	11.00	10.97	9.62	12.08	11.18	10.34	
	ΔR [m Ω]	1.55	1.50	1.61	1.60	0.36	2.77	1.92	0.92	
	Contact	1	2	3	4	5	6	7	8	
8	$\Delta U2$ [mV]	1.099	1.110	1.045	1.131	1.012	1.165	1.098	1.021	P
	R2 [m Ω]	10.99	11.10	10.45	11.31	10.12	11.65	10.98	10.21	
	ΔR [m Ω]	1.12	1.87	1.14	1.38	0.43	1.85	1.66	1.06	
	Contact	1	2	3	4	5	6	7	8	
9	$\Delta U2$ [mV]	1.048	1.102	0.987	1.090	1.061	1.217	1.194	1.050	P
	R2 [m Ω]	10.48	11.02	9.87	10.90	10.61	12.17	11.94	10.50	
	ΔR [m Ω]	0.76	1.06	0.86	1.51	0.92	2.37	2.62	1.35	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

CP3	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R =R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
7	$\Delta U2$ [mV]	1.053	1.093	1.101	1.097	0.962	1.209	1.116	1.036	P
	R2 [m Ω]	10.53	10.93	11.01	10.97	9.62	12.09	11.16	10.36	
	ΔR [m Ω]	0.46	0.46	0.62	0.60	0.36	0.78	0.90	0.94	
	Contact	1	2	3	4	5	6	7	8	
8	$\Delta U2$ [mV]	1.099	1.112	1.048	1.131	1.014	1.166	1.093	1.020	P
	R2 [m Ω]	10.99	11.12	10.48	11.31	10.14	11.66	10.93	10.20	
	ΔR [m Ω]	1.12	0.89	1.17	0.38	0.45	0.86	0.61	1.05	
	Contact	1	2	3	4	5	6	7	8	
9	$\Delta U2$ [mV]	1.045	1.106	0.985	1.096	1.061	1.217	1.193	1.051	P
	R2 [m Ω]	10.45	11.06	9.85	10.96	10.61	12.17	11.93	10.51	
	ΔR [m Ω]	0.73	1.10	0.84	0.57	0.92	1.37	1.61	1.36	
supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

DP1	TABLE: Final measurements (Contact resistance)									P
Test current :					0.1 A					—
Condition..... :					$\Delta R =R2-R1$					
Test sample C	Contact	1	2	3	4	5	6	7	8	—
10	$\Delta U2$ [mV]	1.009	0.994	0.926	1.044	0.910	1.023	0.981	0.923	P
	R2 [m Ω]	10.09	9.94	9.26	10.44	9.10	10.23	9.81	9.23	
	ΔR [m Ω]	0.88	0.61	1.00	0.96	0.66	1.05	0.66	0.65	
	Contact	1	2	3	4	5	6	7	8	
11	$\Delta U2$ [mV]	0.991	1.076	1.002	1.065	0.968	1.063	0.986	0.967	P
	R2 [m Ω]	9.91	10.76	10.02	10.65	9.68	10.63	9.86	9.67	
	ΔR [m Ω]	0.78	1.02	0.86	1.48	0.43	1.00	0.43	0.84	
	Contact	1	2	3	4	5	6	7	8	
12	$\Delta U2$ [mV]	1.15	1.131	1.112	1.114	0.993	1.157	1.111	1.089	P
	R2 [m Ω]	11.50	11.31	11.12	11.14	9.93	11.57	11.11	10.89	
	ΔR [m Ω]	1.82	2.09	1.84	1.58	0.62	2.27	1.79	1.88	
supplementary information:										