NICOMATIC R&D LABORATORY	QUALIFICATION TEST REPORT	QTR18012a
EMM SERIE ACCORDING TO MIL-DTL-83513G STANDARD		Page : 1 /16
		Qualification status : PASSED

LOW LEVEL CONTACT RESISTANCE (Initial)

According to MIL-DTL-83513G §3.5.19, 4.5.21 and EIA-364-23C test procedure

ISSUE	MODIFICATION	VISA	DATE
a	Original Issue	AJ	21/05/18
b			
c			

	Name	Duty	Date	Visa
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1 Conclusion

The EMM connectors are **qualified** regarding LOW LEVEL CONTACT RESISTANCE (Initial) according to MIL-DTL-83513G standard.

2 Technical Features Proposal

EMM connectors:
Low Level Contact Resistance = 9 mOhm max

3 Connate Reports

4 Information about the tests

4.1 Object

The object of this test is to qualify the EMM connectors regarding Low Level Contact Resistance according to MIL-DTL-83513G standard.

4.2 Reference documents/Qualification Plan

- MDC.P16020.a
- MIL-DTL-83513G
- EIA-364-23C

4.3 Tested Products

Designation	Article Reference*	Drawing issue*	Batch / DI*	Quantity
C18892-30 (Female, Straight on PCB, E60 guiding)	C18892-30	na	DI7576	20
C18900-30 (Female Straight on PCB, E50)	C18900-30	na	DI7577	20
C18891-30 (Male, Straight on PCB, E10)	C18891-30	na	DI7579	20
C18904-30 (Male, 90° on PCB, E11 guiding)	C18904-30	na	DI7578	20
C18893-30 (Female, 90° on PCB, E61 guiding)	C18893-30	na	DI7580	20
C18901-30 (Female, 90° on PCB, E51 jackscrew)	C18901-30	na	DI7581	20
C18981-30-0250 (Male, on cable AWG30, E01 jackscrew)	C18981-30-0250	na	DI7592	20
C18980-30-0250 (Male, on cable AWG28, E01 jackscrew)	C18980-30-025	na	DI7591	20
C18902-30-0250 (Male, on cable AWG26, E01 jackscrew)	C18902-30-0250	na	DI7588	20
C18979-30-0250 (Male, on cable AWG24, E01 jackscrew)	C18979-30-0250	na	DI7589	20
C18902-30-0250-BP (Male, on cable AWG26, E01 jackscrew BP)	C18902-30-0250-BP	na	DI7586	20
18224-AWG24	18224-AWG24	na	DI7594	25
18224-AWG26	18224-AWG26	na	DI7596	25
18240-AWG28	18240-AWG28	na	DI7597	25
18240-AWG30	18240-AWG30	na	DI7598	25

4.4 Persons present during the tests

Name	Duty
A.JAGHMIM	Test & Measurement Manager

4.5 Date and place of the tests

NICOMATIC France Lab. from 08/02/18 to 09/02/18

4.6 Environmental conditions

Ambient temperature: 23.4°C
Pressure: 961 mbar
Humidity: 30 % HR

4.7 Incidents during the test

None

4.8 Test Equipments

Designation	Calibration Data	
MULTIMETER MX 44 LB03	**Last calibration date**	07/12/17
	Next calibration date	07/12/18

Designation	Calibration Data	
MULTIMETER 117 N°00363	**Last calibration date**	19/07/17
	Next calibration date	19/07/18

4.9 Test Tooling

Designation	Tooling reference
Laboratory Power Supply (5A)	CT53

5 Requirements according to MIL-DTL-83513G standard

TABLE VI. Contact resistance (milliohms).

Contact size	Wire size AWG	Milliohms maximum	Wire type
24	26	28	SAE AS22759/11 (stranded)
24	26	32	SAE AS22759/33 (stranded)
24	25	25	A-A-59551 (solid)
24	24	25	A-A-59551 (solid)

6 Test Procedure

6.1 Test specimen

The test specimen shall be mated or fixtured as in normal service, or as specified in the referencing document. Fixturing of specimens shall not disturb the natural normal force of the mating contacts.

The test specimen shall be wired as specified in the referencing document. Connections may be made by use of clips, by soldering to a printed circuit board and/or wires. Subsequent measurements should be made at the same point to reduce variability due to path length changes. Soldering the sample to a printed circuit board or to wires fixes the measurement point.

6.2 Test procedure Option 2, current reversal (direct current)

Measure and record the contact resistance of the specimen under test with a test current of 100 milliamperes maximum and 20 millivolts open circuit (source) voltage maximum.

Apply direct current through the specimen.
Measure the current and record it as If.
Measure the voltage drop across the specimen and record it as Vf.
Reverse the direction of current through the specimen. Do not reverse the voltage leads.
Measure the current and record it as Ir.
Measure the voltage drop across the specimen and record it as Vr.
Calculate the contact resistance with the following equation:

$$R = \frac{\left|V_f - V_r\right|}{\left|I_f\right| + \left|I_r\right|}$$

NOTE – The sign of the voltage readings shall be carried into the equation to obtain a proper result.

7 Test setup

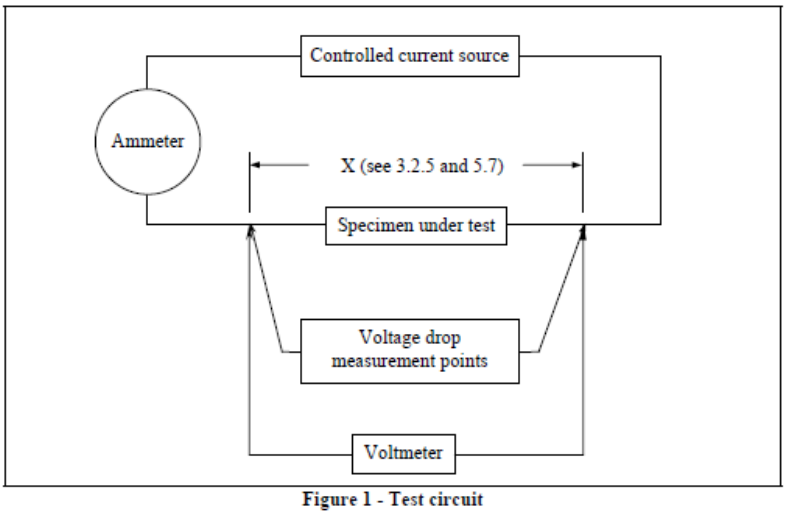
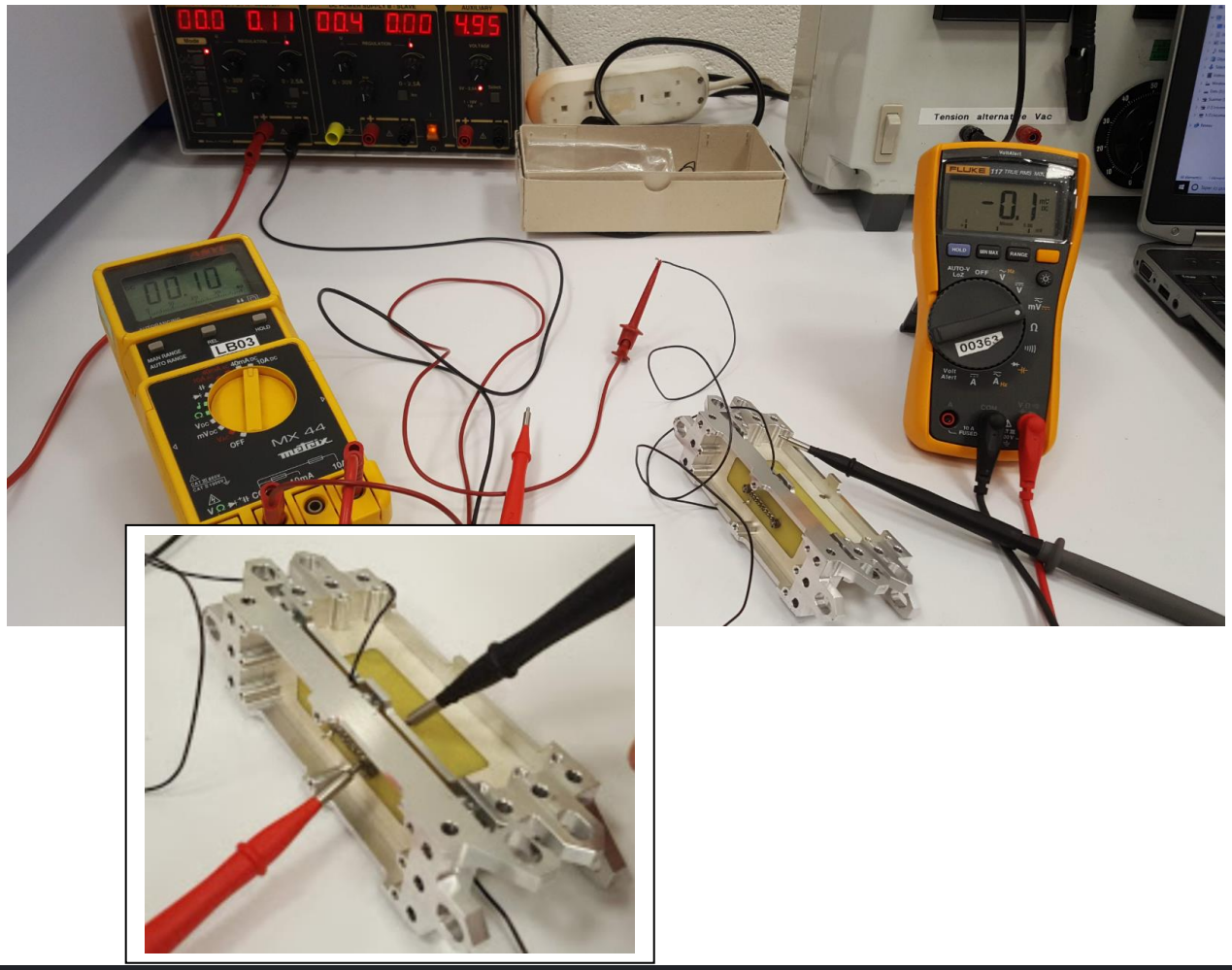


Figure 1 - Test circuit



8 Measurements results

8.1 Resume

	All the sample Resistance (mOhm)
Min	2.50
Max	8.00
Average	5.32

8.2 Details

8.2.1 Couple 1 - C18891-30 + C18892-30

	All the sample Resistance (mOhm)
Min	4.00
Max	6.50
Average	4.95

Sample 1						Sample 2					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.40	0.45	4.50	1	0.1	0.40	0.50	0.45	4.50
6		0.40	0.50	0.45	4.50	6		0.60	0.60	0.60	6.00
12		0.50	0.50	0.50	5.00	12		0.50	0.40	0.45	4.50
15		0.60	0.60	0.60	6.00	15		0.50	0.60	0.55	5.50
19		0.50	0.40	0.45	4.50	19		0.60	0.50	0.55	5.50
26		0.40	0.50	0.45	4.50	26		0.50	0.60	0.55	5.50
30		0.50	0.50	0.50	5.00	30		0.50	0.40	0.45	4.50
Min	**3**	**0.40**	**0.40**	**0.45**	**4.50**	**Min**	**3**	**0.40**	**0.40**	**0.45**	**4.50**
Max	**3**	**0.60**	**0.60**	**0.60**	**6.00**	**Max**	**3**	**0.60**	**0.60**	**0.60**	**6.00**
Average	**3**	**0.49**	**0.49**	**0.49**	**4.86**	**Average**	**3**	**0.51**	**0.51**	**0.51**	**5.14**

Sample 3						Sample 4					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.40	0.50	0.45	4.50	1	0.1	0.40	0.50	0.45	4.50
6		0.50	0.50	0.50	5.00	6		0.50	0.40	0.45	4.50
12		0.50	0.60	0.55	5.50	12		0.40	0.50	0.45	4.50
15		0.50	0.40	0.45	4.50	15		0.60	0.50	0.55	5.50
19		0.50	0.50	0.50	5.00	19		0.50	0.60	0.55	5.50
26		0.40	0.40	0.40	4.00	26		0.50	0.40	0.45	4.50
30		0.50	0.40	0.45	4.50	30		0.40	0.50	0.45	4.50
Min	**3**	**0.40**	**0.40**	**0.40**	**4.00**	**Min**	**3**	**0.40**	**0.40**	**0.45**	**4.50**
Max	**3**	**0.50**	**0.60**	**0.55**	**5.50**	**Max**	**3**	**0.60**	**0.60**	**0.55**	**5.50**
Average	**3**	**0.47**	**0.47**	**0.47**	**4.71**	**Average**	**3**	**0.47**	**0.49**	**0.48**	**4.79**

Sample 5						Sample 6					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.40	0.45	4.50	1	0.1	0.40	0.50	0.45	4.50
6		0.50	0.60	0.55	5.50	6		0.50	0.50	0.50	5.00
12		0.70	0.60	0.65	6.50	12		0.40	0.50	0.45	4.50
15		0.40	0.50	0.45	4.50	15		0.70	0.60	0.65	6.50
19		0.60	0.50	0.55	5.50	19		0.40	0.50	0.45	4.50
26		0.40	0.50	0.45	4.50	26		0.60	0.50	0.55	5.50
30		0.50	0.40	0.45	4.50	30		0.50	0.60	0.55	5.50
Min	**3**	**0.40**	**0.40**	**0.45**	**4.50**	**Min**	**3**	**0.40**	**0.50**	**0.45**	**4.50**
Max	**3**	**0.70**	**0.60**	**0.65**	**6.50**	**Max**	**3**	**0.70**	**0.60**	**0.65**	**6.50**
Average	**3**	**0.51**	**0.50**	**0.51**	**5.07**	**Average**	**3**	**0.50**	**0.53**	**0.51**	**5.14**

8.2.2 Couple 2 - C18891-30 with C18893-30

	All the sample Resistance (mOhm)
Min	4.50
Max	6.50
Average	5.95

Sample 1						Sample 2					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.40	0.50	0.45	4.50	1	0.1	0.70	0.60	0.65	6.50
6		0.70	0.60	0.65	6.50	6		0.60	0.70	0.65	6.50
12		0.50	0.60	0.55	5.50	12		0.60	0.50	0.55	5.50
15		0.70	0.60	0.65	6.50	15		0.60	0.70	0.65	6.50
19		0.60	0.70	0.65	6.50	19		0.70	0.60	0.65	6.50
26		0.70	0.60	0.65	6.50	26		0.60	0.70	0.65	6.50
30		0.50	0.60	0.55	5.50	30		0.60	0.50	0.55	5.50
Min	3	0.40	0.50	0.45	4.50	Min	3	0.60	0.50	0.55	5.50
Max	3	0.70	0.70	0.65	6.50	Max	3	0.70	0.70	0.65	6.50
Average	3	0.59	0.60	0.59	5.93	Average	3	0.63	0.61	0.62	6.21

Sample 3						Sample 4					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.60	0.50	0.55	5.50	1	0.1	0.60	0.60	0.60	6.00
6		0.50	0.60	0.55	5.50	6		0.60	0.70	0.65	6.50
12		0.60	0.50	0.55	5.50	12		0.60	0.50	0.55	5.50
15		0.60	0.70	0.65	6.50	15		0.60	0.60	0.60	6.00
19		0.70	0.60	0.65	6.50	19		0.70	0.60	0.65	6.50
26		0.50	0.60	0.55	5.50	26		0.60	0.70	0.65	6.50
30		0.60	0.50	0.55	5.50	30		0.60	0.50	0.55	5.50
Min	3	0.50	0.50	0.55	5.50	Min	3	0.60	0.50	0.55	5.50
Max	3	0.70	0.70	0.65	6.50	Max	3	0.70	0.70	0.65	6.50
Average	3	0.59	0.57	0.58	5.79	Average	3	0.61	0.60	0.61	6.07

Sample 5						Sample 6					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.60	0.55	5.50	1	0.1	0.60	0.50	0.55	5.50
6		0.60	0.50	0.55	5.50	6		0.60	0.70	0.65	6.50
12		0.50	0.60	0.55	5.50	12		0.50	0.50	0.50	5.00
15		0.70	0.60	0.65	6.50	15		0.60	0.70	0.65	6.50
19		0.50	0.60	0.55	5.50	19		0.70	0.60	0.65	6.50
26		0.60	0.50	0.55	5.50	26		0.60	0.70	0.65	6.50
30		0.50	0.50	0.50	5.00	30		0.60	0.70	0.65	6.50
Min	3	0.50	0.50	0.50	5.00	Min	3	0.50	0.50	0.50	5.00
Max	3	0.70	0.60	0.65	6.50	Max	3	0.70	0.70	0.65	6.50
Average	3	0.56	0.56	0.56	5.57	Average	3	0.60	0.63	0.61	6.14

8.2.3 Couple 3 - C18904-30 with C18893-30

	All the sample Resistance (mOhm)
Min	2.50
Max	6.00
Average	4.35

Sample 1						Sample 2					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.60	0.50	0.55	5.50	1	0.1	0.60	0.30	0.45	4.50
6		0.50	0.40	0.45	4.50	6		0.50	0.50	0.50	5.00
12		0.40	0.50	0.45	4.50	12		0.40	0.30	0.35	3.50
15		0.40	0.50	0.45	4.50	15		0.60	0.60	0.60	6.00
19		0.30	0.30	0.30	3.00	19		0.30	0.30	0.30	3.00
26		0.50	0.50	0.50	5.00	26		0.40	0.40	0.40	4.00
30		0.60	0.60	0.60	6.00	30		0.40	0.30	0.35	3.50
Min	3	0.30	0.30	0.30	3.00	Min	3	0.30	0.30	0.30	3.00
Max	3	0.60	0.60	0.60	6.00	Max	3	0.60	0.60	0.60	6.00
Average	3	0.47	0.47	0.47	4.71	Average	3	0.46	0.39	0.42	4.21

Sample 3						Sample 4					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.60	0.50	0.55	5.50	1	0.1	0.40	0.50	0.45	4.50
6		0.50	0.50	0.50	5.00	6		0.50	0.30	0.40	4.00
12		0.40	0.40	0.40	4.00	12		0.40	0.60	0.50	5.00
15		0.60	0.40	0.50	5.00	15		0.40	0.60	0.50	5.00
19		0.40	0.50	0.45	4.50	19		0.40	0.40	0.40	4.00
26		0.50	0.40	0.45	4.50	26		0.40	0.40	0.40	4.00
30		0.30	0.40	0.35	3.50	30		0.50	0.40	0.45	4.50
Min	3	0.30	0.40	0.35	3.50	Min	3	0.40	0.30	0.40	4.00
Max	3	0.60	0.50	0.55	5.50	Max	3	0.50	0.60	0.50	5.00
Average	3	0.47	0.44	0.46	4.57	Average	3	0.43	0.46	0.44	4.43

Sample 5						Sample 6					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.20	0.50	0.35	3.50	1	0.1	0.40	0.50	0.45	4.50
6		0.60	0.60	0.60	6.00	6		0.30	0.20	0.25	2.50
12		0.60	0.60	0.60	6.00	12		0.40	0.30	0.35	3.50
15		0.40	0.50	0.45	4.50	15		0.40	0.40	0.40	4.00
19		0.30	0.40	0.35	3.50	19		0.40	0.30	0.35	3.50
26		0.40	0.50	0.45	4.50	26		0.30	0.40	0.35	3.50
30		0.40	0.30	0.35	3.50	30		0.40	0.40	0.40	4.00
Min	3	0.20	0.30	0.35	3.50	Min	3	0.30	0.20	0.25	2.50
Max	3	0.60	0.60	0.60	6.00	Max	3	0.40	0.50	0.45	4.50
Average	3	0.41	0.49	0.45	4.50	Average	3	0.37	0.36	0.36	3.64

8.2.4 Couple 4 - C18901-30 with C18979-30-0250

	All the sample Resistance (mOhm)
Min	4.00
Max	6.50
Average	4.79

Sample 1						Sample 2					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.50	0.50	5.00	1	0.1	0.50	0.60	0.55	5.50
6		0.40	0.40	0.40	4.00	6		0.60	0.50	0.55	5.50
12		0.50	0.50	0.50	5.00	12		0.60	0.40	0.50	5.00
15		0.50	0.50	0.50	5.00	15		0.50	0.50	0.50	5.00
19		0.50	0.60	0.55	5.50	19		0.50	0.50	0.50	5.00
26		0.50	0.50	0.50	5.00	26		0.50	0.30	0.40	4.00
30		0.60	0.60	0.60	6.00	30		0.40	0.40	0.40	4.00
Min	**3**	**0.40**	**0.40**	**0.40**	**4.00**	**Min**	**3**	**0.40**	**0.30**	**0.40**	**4.00**
Max	**3**	**0.60**	**0.60**	**0.60**	**6.00**	**Max**	**3**	**0.60**	**0.60**	**0.55**	**5.50**
Average	**3**	**0.50**	**0.51**	**0.51**	**5.07**	**Average**	**3**	**0.51**	**0.46**	**0.49**	**4.86**

Sample 3						Sample 4					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.50	0.50	5.00	1	0.1	0.50	0.50	0.50	5.00
6		0.70	0.60	0.65	6.50	6		0.40	0.40	0.40	4.00
12		0.40	0.40	0.40	4.00	12		0.50	0.70	0.60	6.00
15		0.60	0.60	0.60	6.00	15		0.40	0.50	0.45	4.50
19		0.50	0.60	0.55	5.50	19		0.50	0.50	0.50	5.00
26		0.40	0.40	0.40	4.00	26		0.40	0.50	0.45	4.50
30		0.40	0.40	0.40	4.00	30		0.40	0.40	0.40	4.00
Min	**3**	**0.40**	**0.40**	**0.40**	**4.00**	**Min**	**3**	**0.40**	**0.40**	**0.40**	**4.00**
Max	**3**	**0.70**	**0.60**	**0.65**	**6.50**	**Max**	**3**	**0.50**	**0.70**	**0.60**	**6.00**
Average	**3**	**0.50**	**0.50**	**0.50**	**5.00**	**Average**	**3**	**0.44**	**0.50**	**0.47**	**4.71**

Sample 5						Sample 6					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.50	0.50	0.50	5.00	1	0.1	0.60	0.50	0.55	5.50
6		0.40	0.40	0.40	4.00	6		0.40	0.40	0.40	4.00
12		0.50	0.40	0.45	4.50	12		0.50	0.40	0.45	4.50
15		0.40	0.40	0.40	4.00	15		0.60	0.50	0.55	5.50
19		0.60	0.50	0.55	5.50	19		0.50	0.50	0.50	5.00
26		0.40	0.40	0.40	4.00	26		0.40	0.40	0.40	4.00
30		0.40	0.40	0.40	4.00	30		0.40	0.40	0.40	4.00
Min	**3**	**0.40**	**0.40**	**0.40**	**4.00**	**Min**	**3**	**0.40**	**0.40**	**0.40**	**4.00**
Max	**3**	**0.60**	**0.50**	**0.55**	**5.50**	**Max**	**3**	**0.60**	**0.50**	**0.55**	**5.50**
Average	**3**	**0.46**	**0.43**	**0.44**	**4.43**	**Average**	**3**	**0.49**	**0.44**	**0.46**	**4.64**

8.2.5 Couple 5 - C18900-30 with C18979-30-0250

	All the sample Resistance (mOhm)
Min	5.50
Max	8.00
Average	6.56

Sample 1						Sample 2					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.70	0.60	0.65	6.50	1	0.1	0.80	0.60	0.70	7.00
6		0.50	0.60	0.55	5.50	6		0.50	0.60	0.55	5.50
12		0.70	0.70	0.70	7.00	12		0.70	0.60	0.65	6.50
15		0.70	0.60	0.65	6.50	15		0.70	0.70	0.70	7.00
19		0.60	0.60	0.60	6.00	19		0.60	0.70	0.65	6.50
26		0.60	0.60	0.60	6.00	26		0.60	0.50	0.55	5.50
30		0.60	0.70	0.65	6.50	30		0.60	0.80	0.70	7.00
Min	**3**	**0.50**	**0.60**	**0.55**	**5.50**	**Min**	**3**	**0.50**	**0.50**	**0.55**	**5.50**
Max	**3**	**0.70**	**0.70**	**0.70**	**7.00**	**Max**	**3**	**0.80**	**0.80**	**0.70**	**7.00**
Average	**3**	**0.63**	**0.63**	**0.63**	**6.29**	**Average**	**3**	**0.64**	**0.64**	**0.64**	**6.43**

Sample 3						Sample 4					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.70	0.60	0.65	6.50	1	0.1	0.60	0.60	0.60	6.00
6		0.60	0.70	0.65	6.50	6		0.70	0.60	0.65	6.50
12		0.80	0.70	0.75	7.50	12		0.70	0.70	0.70	7.00
15		0.70	0.80	0.75	7.50	15		0.60	0.60	0.60	6.00
19		0.70	0.60	0.65	6.50	19		0.60	0.60	0.60	6.00
26		0.60	0.70	0.65	6.50	26		0.60	0.60	0.60	6.00
30		0.80	0.70	0.75	7.50	30		0.70	0.80	0.75	7.50
Min	**3**	**0.60**	**0.60**	**0.65**	**6.50**	**Min**	**3**	**0.60**	**0.60**	**0.60**	**6.00**
Max	**3**	**0.80**	**0.80**	**0.75**	**7.50**	**Max**	**3**	**0.70**	**0.80**	**0.75**	**7.50**
Average	**3**	**0.70**	**0.69**	**0.69**	**6.93**	**Average**	**3**	**0.64**	**0.64**	**0.64**	**6.43**

Sample 5						Sample 6					
Mated couple						Mated couple					
Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)	Measured contact	Test Current (A)	Voltage Drop (mV)	Reverse Voltage Drop (mV)	Average voltage Drop (mV)	Resistance (mOhm)
1	0.1	0.60	0.50	0.55	5.50	1	0.1	0.60	0.60	0.60	6.00
6		0.50	0.60	0.55	5.50	6		0.60	0.60	0.60	6.00
12		0.70	0.60	0.65	6.50	12		0.80	0.70	0.75	7.50
15		0.60	0.70	0.65	6.50	15		0.70	0.70	0.70	7.00
19		0.80	0.80	0.80	8.00	19		0.70	0.80	0.75	7.50
26		0.60	0.70	0.65	6.50	26		0.60	0.60	0.60	6.00
30		0.80	0.70	0.75	7.50	30		0.70	0.70	0.70	7.00
Min	**3**	**0.50**	**0.50**	**0.55**	**5.50**	**Min**	**3**	**0.60**	**0.60**	**0.60**	**6.00**
Max	**3**	**0.80**	**0.80**	**0.80**	**8.00**	**Max**	**3**	**0.80**	**0.80**	**0.75**	**7.50**
Average	**3**	**0.66**	**0.66**	**0.66**	**6.57**	**Average**	**3**	**0.67**	**0.67**	**0.67**	**6.71**

9 Visual Inspection

Required by the applicable standard ?			
YES		NO	☐

**********END OF REPORT**********

10 APPENDIX

Internal use only ?			
YES	☐	NO	☒

10.1 The Laboratory Advice

10.2 Pictures

**********END OF APPENDIX**********