Job Number: 93.11.30	Project Number: 150.020	Date of issue: December 1993.
Description: Micro-MaTch. Paddleboard. (Qualification test)		**Part numbers:** 0-215570-6 1-215570-6 2-215570-0

Scope:

To investigate the behaviour of the Micro-MaTch Miniature connector system, Paddleboard version, when tested in accordance with the AMP PRODUCT SPECIFICATION.

Conclusions:

All tested connector assemblies meet the requirements of AMP PRODUCT SPECIFICATION.

Test Specification:	IEC 512 series. IEC 68 series. AMP PRODUCT SPECIFICATION 108-19052. Rev.A.
Test Carried Out:	1 See page 3 and 4. 2 3
Distribution:	1 Mr. H.vd Steen. (P.E.). 2 Doc.Centre. 3 File Lab.

Test Engineer:	J.M.Geven.	**Requested by:**	Product Engineering.
Laboratory Manager:	W.M. de Cock	**Classification:**	U N R E S T R I C T E D.
Disposal of Samples:	Returned.	**Report Number:**	R 041 - 1665
Appendices:		**Page 1 of 32 Pages**	

EQUIPMENT USED :

Digital Voltmeter	Hewlett & Packard	3478 A.
Scanner	Hewlett & Packard	3052 A.
Instrument controller	Hewlett & Packard	Series 300.
Digital Ampere meter	Keithley	T-195.
Voltage Source	Data Precision	8200.
Climatic chamber	Heraeus / Vötsch	VLK 08-300.
Climatic chamber	Heraeus / Vötsch	VMS 02-08-20-64.
Oven	Heraeus	T 5042-EK
Tensile tester	Karl Frank	81560.
Push-Pull tester	AMP Holland	Mk II.

DESCRIPTION of TESTSAMPLES:

For:

Testgroup 1: One 20-position Paddleboard connector, partnumber 2-215570-0, terminated on ribboncable and soldered on a PCB.
5 Of these samples were made and tested.

Testgroup 2: One 6-position Paddleboard connector, partnumber 0-215570-6, terminated on ribboncable and soldered on a PCB.
8 Of these samples were made and tested.

Testgroup 3: 10 Paddleboard connectors, Partnumber 2-215570-0.

Testgroup 4: One 16-position Paddleboard connector, partnumber 1-215570-6, terminated on ribboncable.
4 Of these samples were made and tested.

Testgroup 5: One 20-position paddleboard connector, partnumber 2-215570-0, terminated on ribboncale.
10 Of these samples were made and tested.

Testgroup 6: 10 Paddleboard connectors, partnumber 2-215570-0, and 10 PCB's were used.

Testgroup 7: The current / temperature behaviour of Paddleboard version was verified by testing of the SMC / MOW version, because the latter is more critical.
Comparative measurements have shown that the temperature rise at:
1 A DC is 17°C for Paddleboard connector and
18°C for SMC /MOW combination.
One SMC connector, partnumber 2-100411-0, was mounted on a PCB.
One MOW connector, partnumber 2-215083-0, was soldered on a PCB.
These two boards were connected to one assembly.
20-position connectors were used.
5 Of these assemblies were made and tested.

The connectors were terminated onto the ribboncable.
Used hand-operated bench press : partnumber 733280-3
Used ribboncable : AWG 28, 7 strands tinplated

Note: SMC means : Surface Mount Compatible.
MOW means : Male On Wire.

TEST DESCRIPTION:

Visual Examination: acc.to IEC 512-2-1a.

Magnification was 10x.

Termination Resistance: acc.to IEC 512-2-2a.

Maximum open voltage :20 mVolt.
Maximum current :100 milliAmpere.
Measuring points :See figure 1 on page 4.

Requirement: 10 mΩ maximum.

For group 7: Bulkresistance 30 mΩ wire resistance.
8 mΩ print conductor.
Totally 38 mΩ. (approx.)

Dry Heat: acc.to IEC 512-6-11i.

16 Hours storage at 105°C.

Damp Heat Cyclic: acc.to IEC 512-6-11m.

One cycle consists of:
Upper temperature : 55°C.
Lower temparature : 25°C.
Relative humidity : 95%.
Duration one cycle : 12 + 12 Hours.
Number of cycles : 1 and 5 remaining cycles.

Cold: acc.to IEC 512-6-11j.

2 Hours storage at -40°C.

Rapid Change of Temperature: acc.to IEC 512-6-11d.

One cycle consists of :
Upper temperature :105°C. for 15 minutes.
Lower temperature :-40°C. for 15 minutes.
Number of cycles :10.

Solderability: acc.to IEC 68-2-20Ta.

Solderbath temperature : 235°C.
Ageing 3 : 16 hours at 155°C.

Requirement :maximum 5% dewetting.

Resistance to Soldering Heat: acc.to IEC 68-2-20Tb.

Method 1A.
Solderbath :260°C.
Duration :5 seconds.

Requirement :No functional damage.

Axial Tensile: acc.to IEC 512-8-16d.

The axial tensile strength of wire was determined on the tensile tester.
Speed: 25 mm. per minute.

Requirement :
10 Newton / contact. (= 200 Newton / connector)

Connector Ins./Extr.force: in PCB.

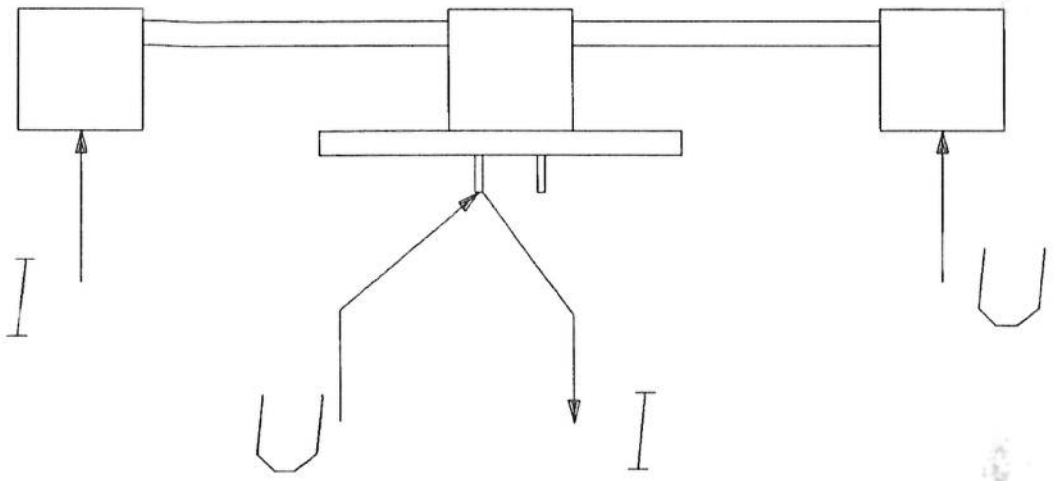
The connector inserted and extracted in the holes of a PCB on the push pull tester. 10 Samples were tested.
The forces were recorded.

Requirement :
Insertion force maximum :100 Newton per connector.
Extraction force minimum : 10 Newton per connector.

Dry Heat under Cyclic current: Loading. acc.to IEC 512-5-9e.

The test samples were placed in an oven with an ambient temperature of 70°C. The samples were, all in series, connected to a current source with a current of 125% of the specified current.
That means for these connectors : 1,4 A DC.(curve A prod.spec.)
500 Current cycles were done.
One cycle consists of : 45 minutes on ON,
15 minutes on OFF.

Measuringpoints termination resistance.



TESTSEQUENCE:

Testgroup 1:
Visual Examination.
Termination resistance.
Dry Heat
Damp Heat Cyclic, 1 cycle.
Cold
Damp Heat cyclic, 5 remaining cycles.
Termination Resistance.
Visual Examination.

Testgroup 2:
Visual Examination
Termination Resistance
Rapid Change of Temperature
Termination Resistance
Visual Examination.

Testgroup 3:
Visual Examination
Solderability
Visual Examination

Testgroup 4:
Visual Examination
Termination Resistance.
Resistance to soldering heat
Termination Resistance
Visual Examination

Testgroup 5:
Visual Examination
Axial tensile strength of wire. (half lot)
Rapid Change of Temperature
Axial tensile strength of wire. (half lot)

Testgroup 6:
Visual Examination
Connector insertion force
Connector extraction force
Visual Examination

Testgroup 7:
Visual Examination
Termination Resistance
Dry Heat under loaded current cycling
Termination resistance
Visual Examination

TESTRESULTS:

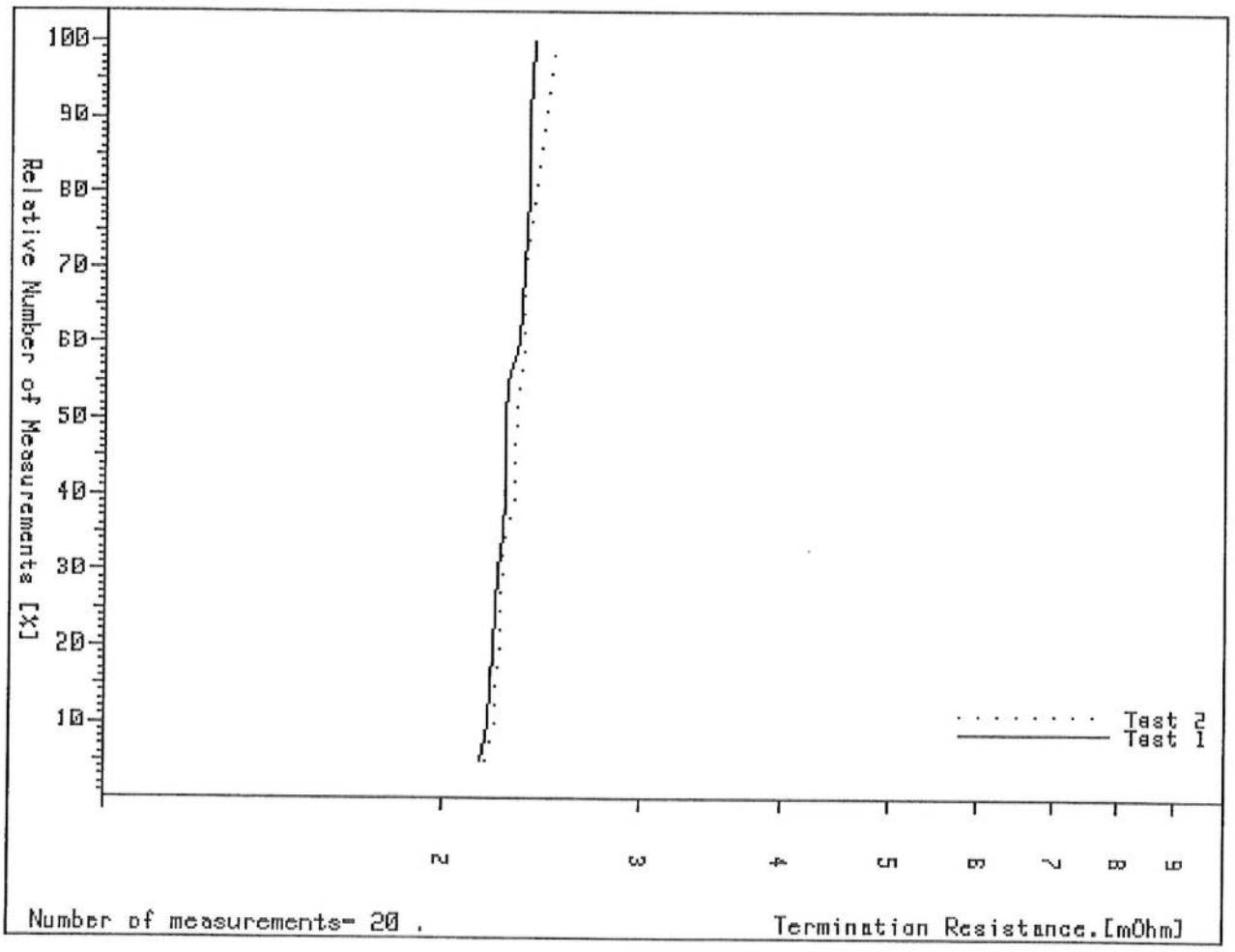
Testgroup 3: No dewetting was detected on the functional area.
Testgroup 4: No functional damage was found.

Product: MicroMaTch. Paddleboard. (93.07.13)

Test 1 : Termination Resistance Initial.
Test 2 : Climatic Sequence.
Group : 1
Lot : 1

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,42	2,51	0,27
Min. :	2,16	2,18	-0,07
Mean :	2,30	2,34	0,04
StDv :	0,08	0,09	0,10



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. Paddleboard. (93.07.13)

Col. Group	Lot	Test
-1-: 1	1	Termination Resistance Initial.
-2-: 1	1	Climatic Sequence.

	-1-	-2-
01	2,16	2,43
02	2,22	2,37
03	2,29	2,37
04	2,35	2,49
05	2,19	2,37
06	2,38	2,47
07	2,27	2,25
08	2,36	2,40
09	2,24	2,18
10	2,40	2,34
11	2,26	2,23
12	2,34	2,43
13	2,20	2,27
14	2,38	2,33
15	2,27	2,23
16	2,39	2,32
17	2,23	2,26
18	2,39	2,32
19	2,28	2,25
20	2,42	2,51
Max.:	2,42	2,51
Min.:	2,16	2,18
Mean:	2,30	2,34

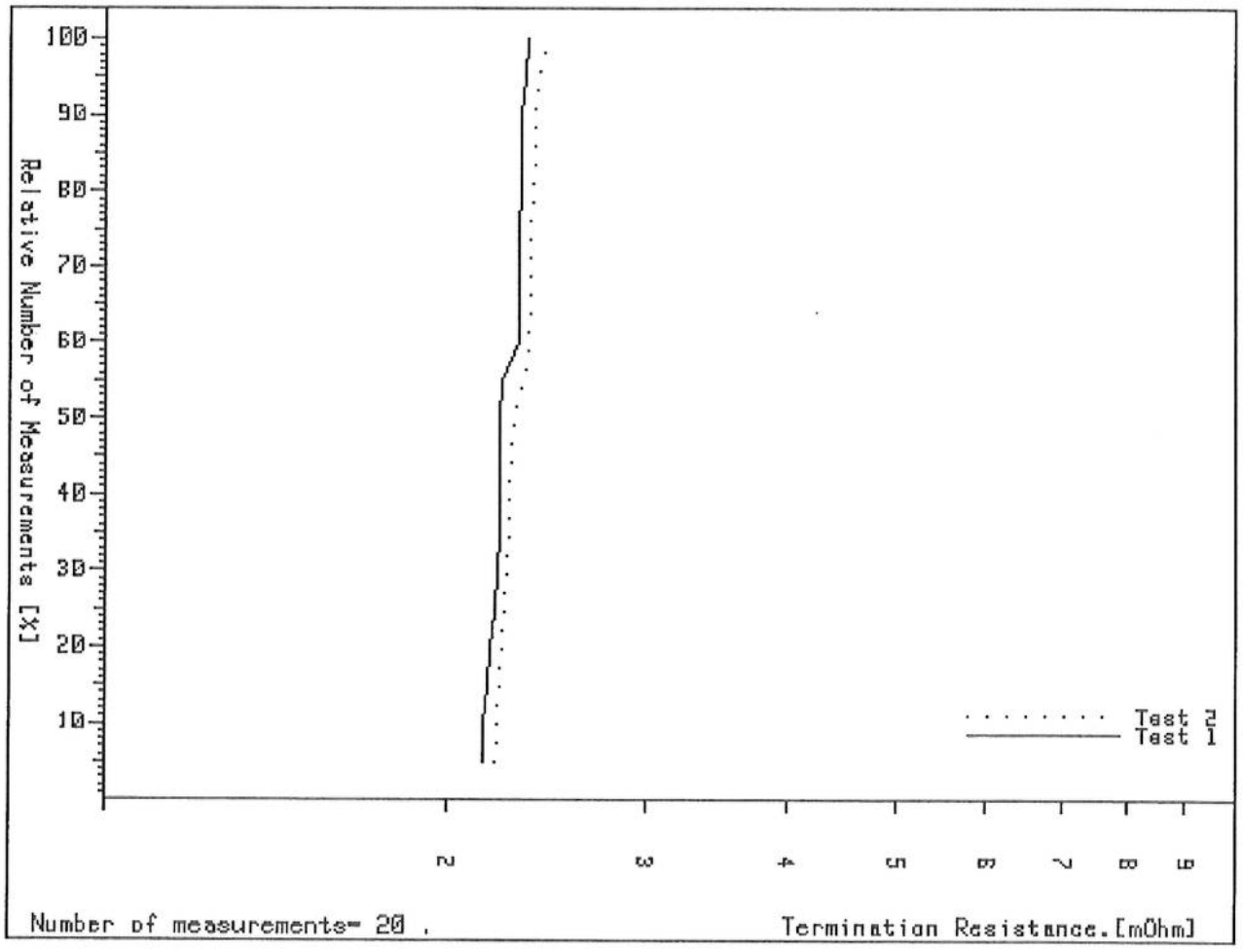
****

Product: MicroMaTch. Paddleboard. (93.07.13)

Test 1 : Termination Resistance Initial.
Test 2 : Climatic Sequence.
Group : 1
Lot : 2

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,36	2,47	0,15
Min. :	2,15	2,20	0,00
Mean :	2,26	2,32	0,06
StDv :	0,07	0,08	0,04



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. Paddleboard. (93.07.13)

Col.	Group	Lot	Test
-1-:	1	2	Termination Resistance Initial.
-2-:	1	2	Climatic Sequence.

	-1-	-2-
01	2,16	2,25
02	2,15	2,23
03	2,23	2,38
04	2,33	2,37
05	2,18	2,21
06	2,36	2,37
07	2,23	2,28
08	2,34	2,36
09	2,18	2,28
10	2,32	2,41
11	2,23	2,26
12	2,33	2,34
13	2,20	2,20
14	2,32	2,40
15	2,23	2,27
16	2,32	2,40
17	2,22	2,24
18	2,32	2,38
19	2,24	2,29
20	2,36	2,47
Max.:	2,36	2,47
Min.:	2,15	2,20
Mean:	2,26	2,32

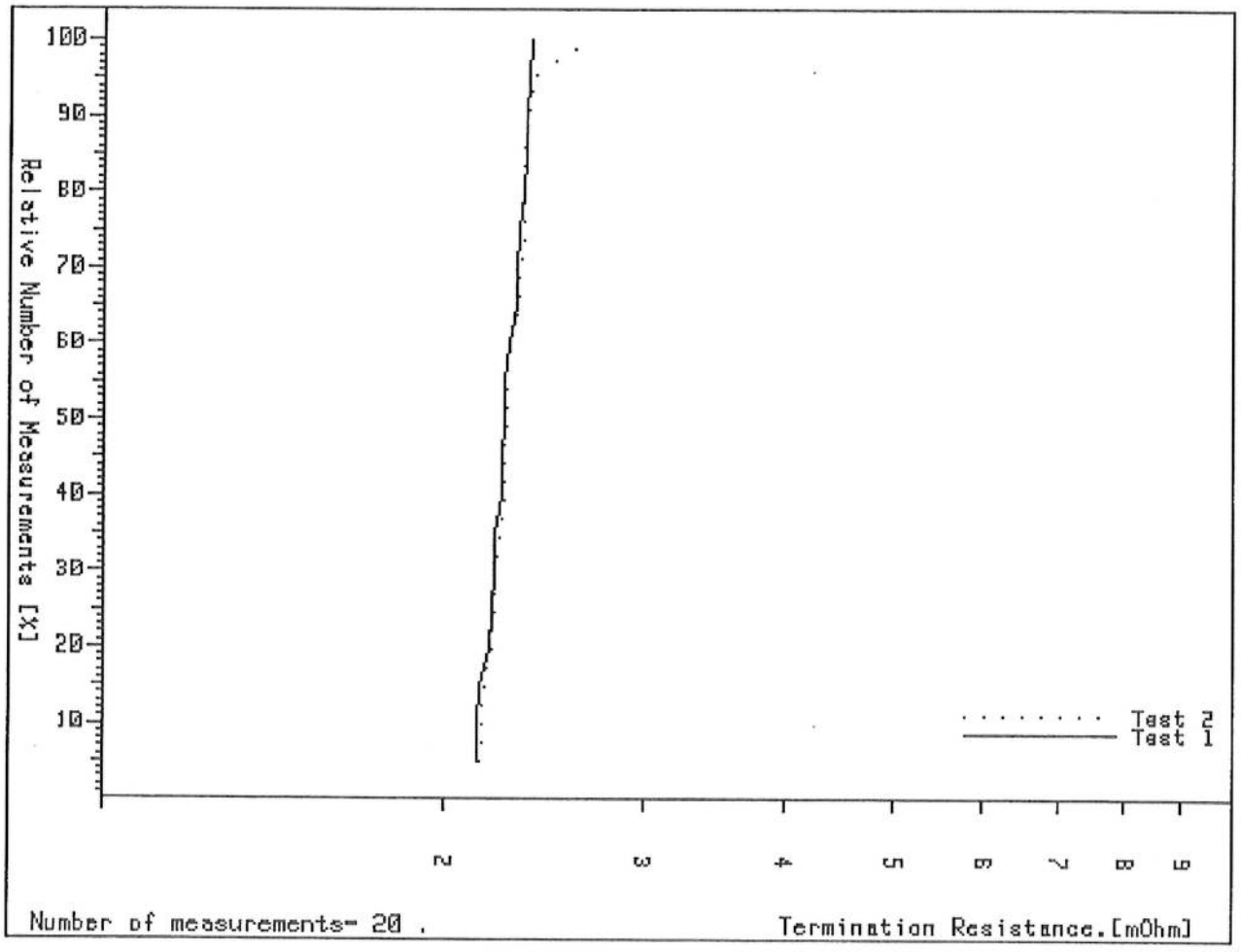
****

Product: MicroMaTch. Paddleboard. (93.07.13)

Test 1 : Termination Resistance Initial.
Test 2 : Climatic Sequence.
Group : 1
Lot : 3

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,38	2,69	0,31
Min. :	2,14	2,16	-0,01
Mean :	2,27	2,30	0,02
StDv :	0,08	0,12	0,07



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. Paddleboard. (93.07.13)

Col.	Group	Lot	Test
-1-:	1	3	Termination Resistance Initial.
-2-:	1	3	Climatic Sequence.

	-1-	-2-
01	2,16	2,16
02	2,15	2,16
03	2,26	2,27
04	2,32	2,33
05	2,21	2,21
06	2,31	2,35
07	2,22	2,24
08	2,28	2,29
09	2,22	2,22
10	2,36	2,36
11	2,26	2,26
12	2,33	2,33
13	2,14	2,18
14	2,38	2,39
15	2,26	2,28
16	2,36	2,37
17	2,20	2,22
18	2,37	2,36
19	2,26	2,27
20	2,38	2,69
Max.:	2,38	2,69
Min.:	2,14	2,16
Mean:	2,27	2,30

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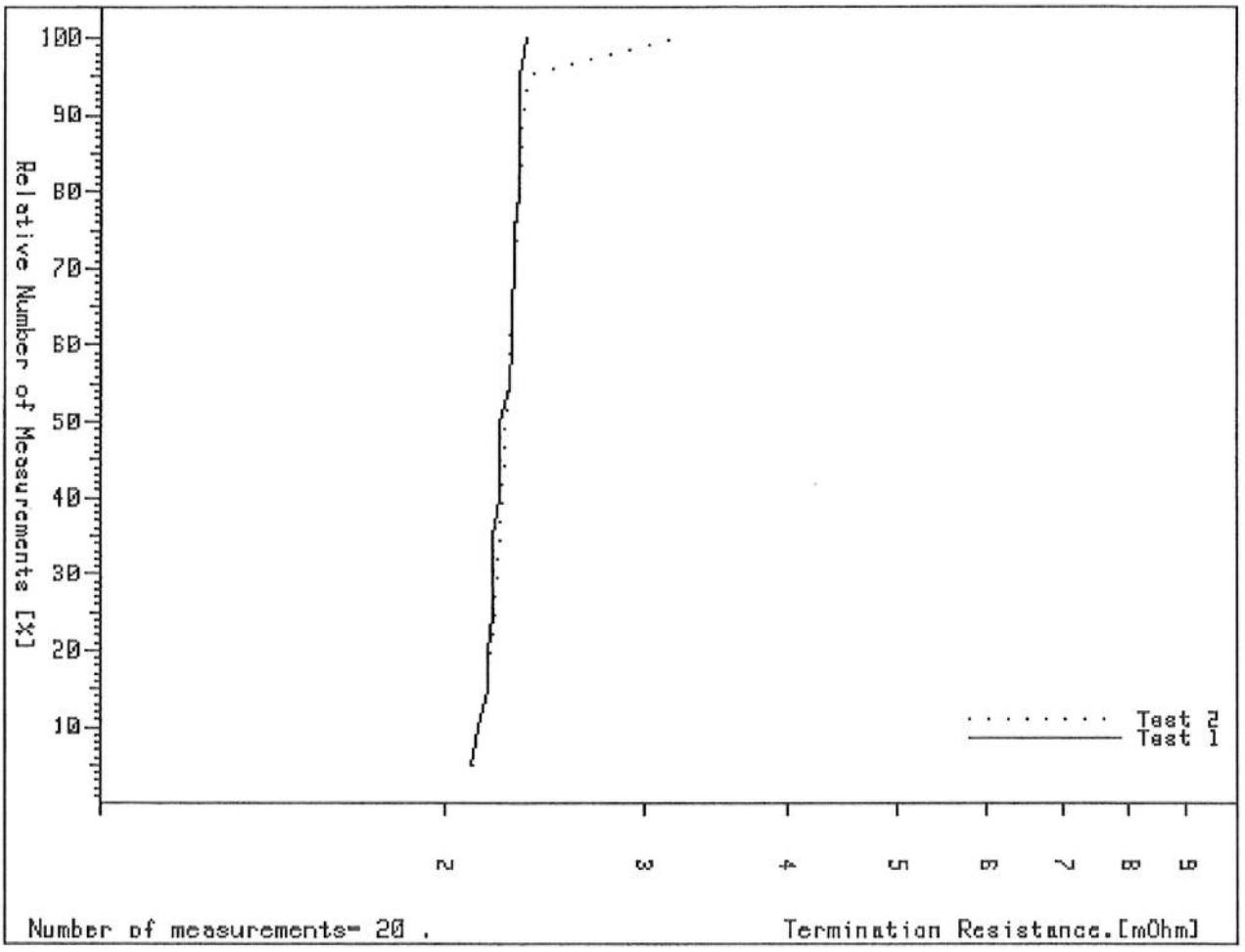
Product: MicroMaTch. Paddleboard. (93.07.13)

Test 1 : Termination Resistance Initial.
Test 2 : Climatic Sequence.
Group : 1
Lot : 4

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,37	3,20	0,87
Min. :	2,12	2,12	-0,02
Mean :	2,26	2,31	0,05
StDv :	0,07	0,22	0,19



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. Paddleboard. (93.07.13)

Col.	Group	Lot	Test
-1-:	1	4	Termination Resistance Initial.
-2-:	1	4	Climatic Sequence.

	-1-	-2-
01	2,12	2,12
02	2,15	2,15
03	2,24	2,26
04	2,29	2,29
05	2,21	2,24
06	2,31	2,32
07	2,21	2,23
08	2,33	2,34
09	2,19	2,19
10	2,33	2,35
11	2,21	2,22
12	2,29	2,30
13	2,19	2,19
14	2,31	2,29
15	2,24	2,26
16	2,29	2,30
17	2,24	2,25
18	2,37	2,37
19	2,33	3,20
20	2,33	2,33
Max.:	2,37	3,20
Min.:	2,12	2,12
Mean:	2,26	2,31

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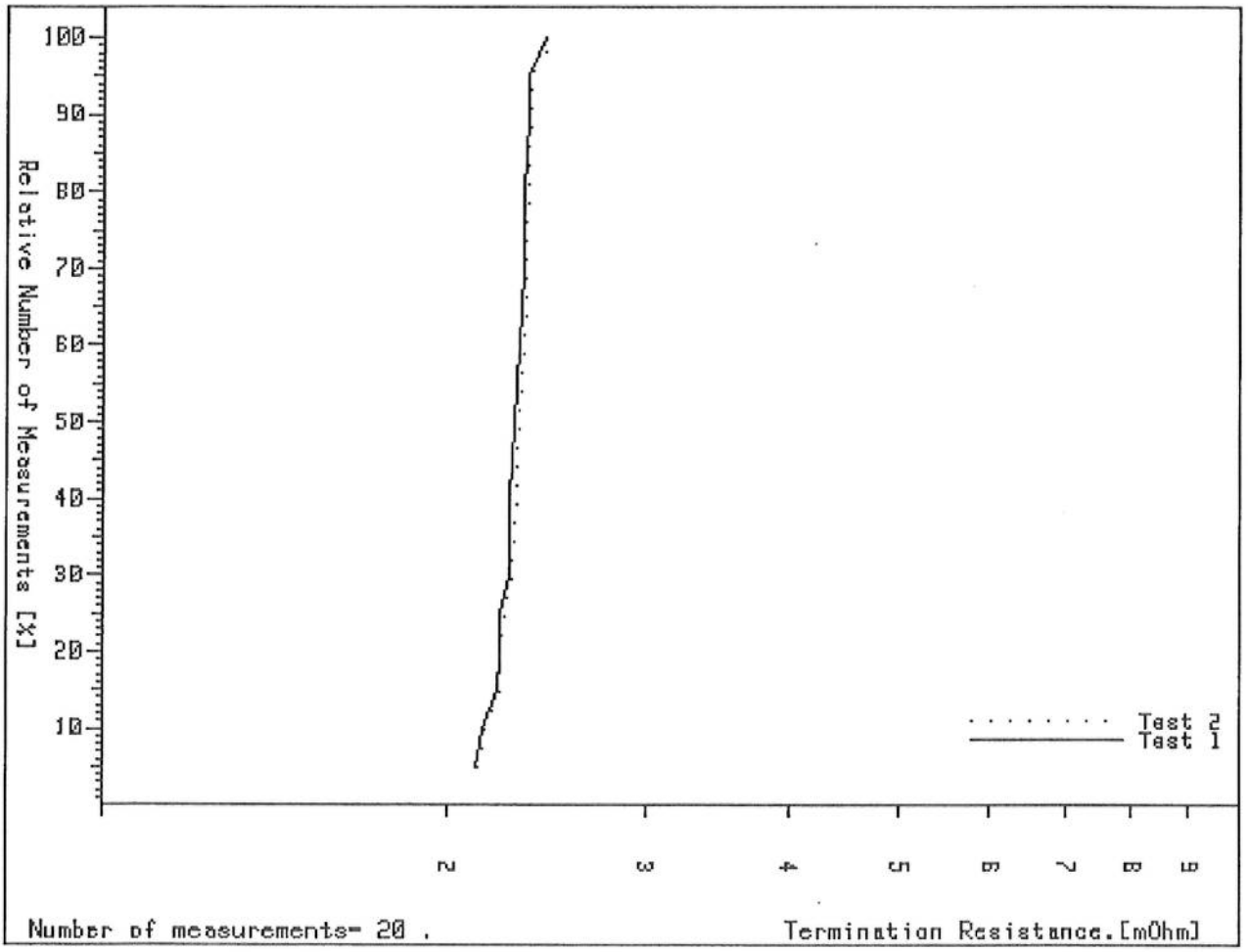
Product: MicroMaTch. Paddleboard. (93.07.13)

Test 1 : Termination Resistance Initial.
Test 2 : Climatic Sequence.
Group : 1
Lot : 5

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,45	2,48	0,06
Min. :	2,13	2,14	-0,01
Mean :	2,29	2,31	0,02
StDv :	0,08	0,08	0,02



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Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. Paddleboard. (93.07.13)

Col.	Group	Lot	Test
-1-:	1	5	Termination Resistance Initial.
-2-:	1	5	Climatic Sequence.

	-1-	-2-
01	2,13	2,14
02	2,16	2,16
03	2,27	2,28
04	2,33	2,33
05	2,22	2,23
06	2,36	2,35
07	2,32	2,31
08	2,34	2,35
09	2,23	2,23
10	2,37	2,38
11	2,30	2,36
12	2,34	2,38
13	2,28	2,34
14	2,34	2,35
15	2,28	2,31
16	2,36	2,37
17	2,23	2,25
18	2,45	2,48
19	2,31	2,30
20	2,29	2,30
Max.:	2,45	2,48
Min.:	2,13	2,14
Mean:	2,29	2,31

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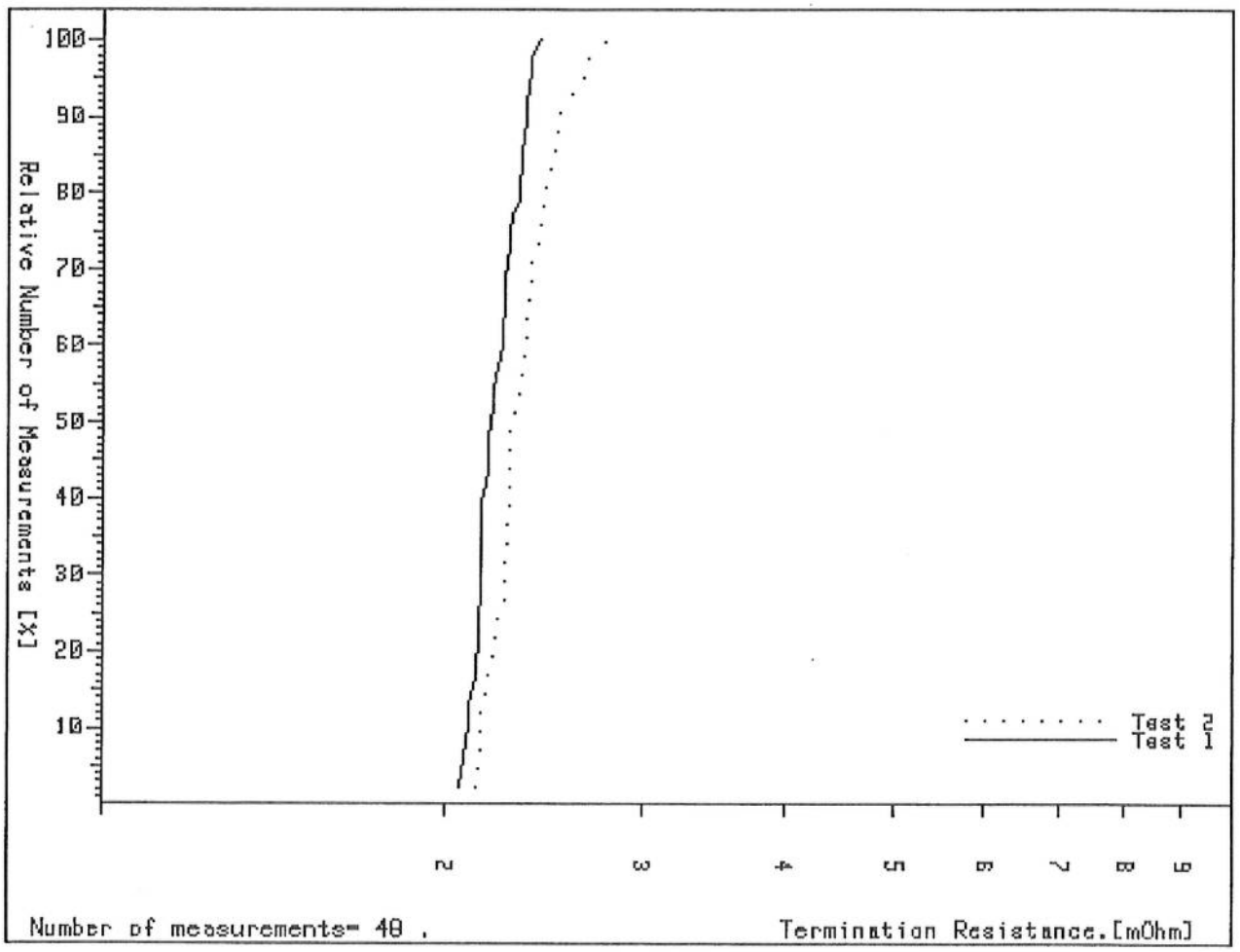
Product: Micro-MaTch. Paddleboard. Pn.0-215570-6.

Test 1 : Termination Resistance Initial. I.D.connection.
Test 2 : After 10 Thermal Shocks of -55 / +105°C.
Group : 2
Lot : 1-8

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	2,43	2,79	0,54
Min. :	2,06	2,13	-0,06
Mean :	2,22	2,35	0,13
StDv :	0,10	0,15	0,14



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Termination Resistances in milliOhms.
****
Product Tested: Micro-MaTch. Paddleboard. Pn.0-215570-6.

Col.	Group	Lot	Test
-1-:	2	1-8	Termination Resistance Initial. I.D.connection.
-2-:	2	1-8	After 10 Thermal Shocks of -55 / +105°C.

	-1-	-2-
01	2,06	2,27
02	2,22	2,27
03	2,19	2,20
04	2,39	2,39
05	2,14	2,36
06	2,39	2,39
07	2,15	2,28
08	2,15	2,65
09	2,26	2,26
10	2,37	2,52
11	2,19	2,33
12	2,33	2,52
13	2,07	2,43
14	2,16	2,16
15	2,24	2,18
16	2,34	2,46
17	2,21	2,44
18	2,28	2,69
19	2,08	2,36
20	2,15	2,16
21	2,20	2,19
22	2,36	2,48
23	2,11	2,29
24	2,35	2,54
25	2,14	2,27
26	2,21	2,35
27	2,16	2,15
28	2,27	2,32
29	2,18	2,22
30	2,38	2,51
31	2,09	2,34
32	2,25	2,79
33	2,15	2,16
34	2,26	2,29
35	2,13	2,13
36	2,29	2,46
37	2,10	2,23
38	2,14	2,29
39	2,13	2,13
40	2,30	2,29
41	2,19	2,23
42	2,26	2,26
43	2,10	2,30
44	2,33	2,42
45	2,25	2,26
46	2,43	2,67
47	2,16	2,39
48	2,34	2,36
Max.:	2,43	2,79
Min.:	2,06	2,13
Mean:	2,22	2,35

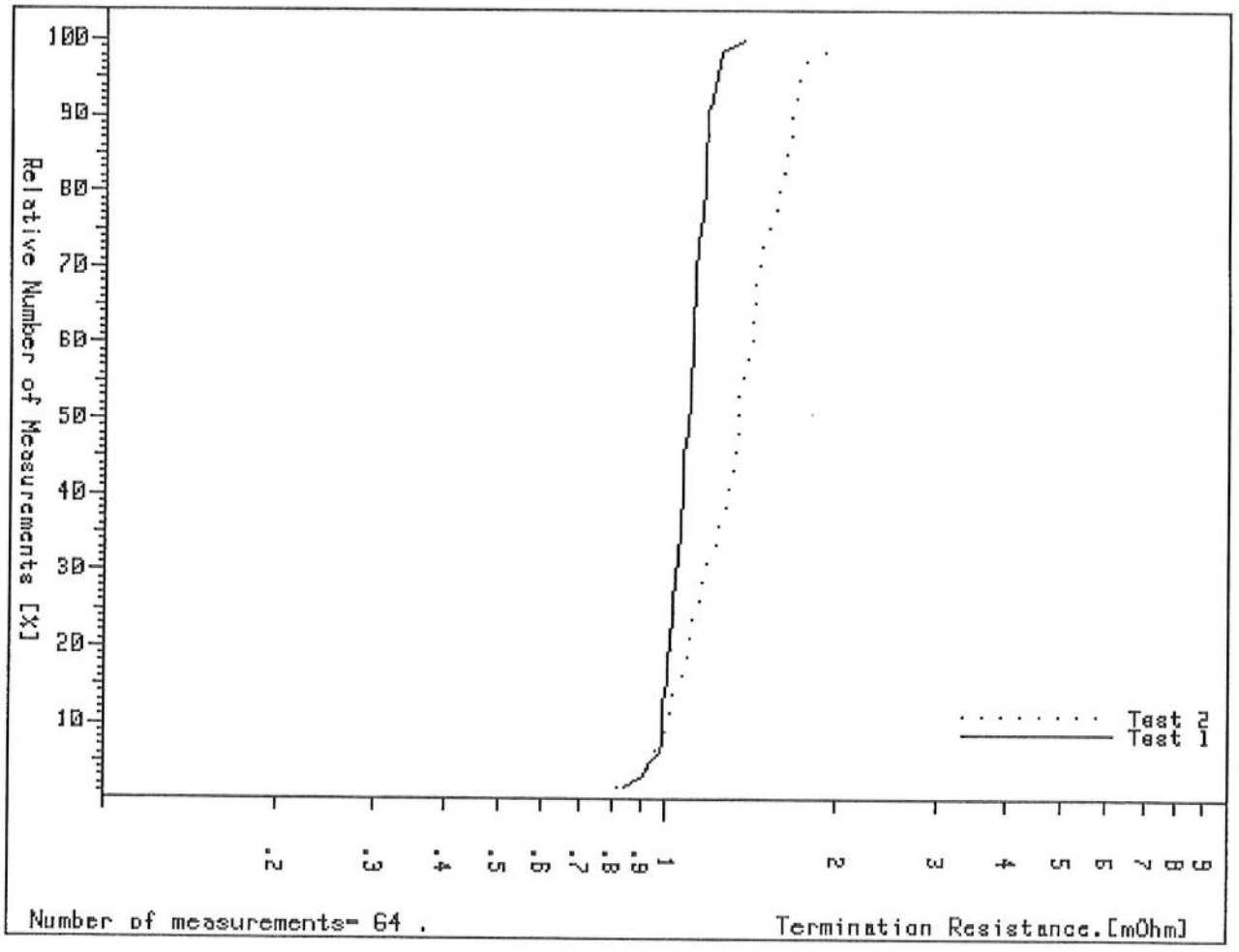
****

Product: Micro-MaTch. Paddleboard. Pn.2-215570-0.

Test 1 : Termination Resistance Initial.
Test 2 : Resistance to Soldering Heat:260°C for 10 Sec.
Group : 4
Lot : 1 - 4

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	1,36	1,94	0,82
Min. :	0,84	0,82	-0,33
Mean :	1,09	1,34	0,25
StDv :	0,09	0,25	0,26



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Termination Resistances in milliOhms.

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Product Tested: Micro-MaTch. Paddleboard. Pn.2-215570-0.

Col.	Group	Lot	Test
-1-:	4	1	Termination Resistance Initial.
-2-:	4	2	Termination Resistance Initial.
-3-:	4	3	Termination Resistance Initial.
-4-:	4	4	Termination Resistance Initial.

	-1-	-2-	-3-	-4-
01	1,13	1,16	1,04	1,12
02	0,93	1,11	0,91	1,10
03	1,10	1,05	1,01	0,98
04	1,12	1,07	1,04	1,16
05	0,99	0,99	1,00	1,06
06	1,06	1,07	1,03	1,17
07	1,05	1,18	1,11	1,11
08	1,15	1,16	1,11	1,16
09	1,06	1,09	1,01	1,07
10	1,03	1,07	1,12	0,84
11	1,21	0,99	1,13	1,10
12	1,08	1,22	0,99	1,20
13	1,01	1,16	1,02	1,07
14	1,03	1,14	1,15	1,12
15	1,10	1,23	1,02	1,11
16	1,17	1,36	1,09	1,25
Max.:	1,21	1,36	1,15	1,25
Min.:	0,93	0,99	0,91	0,84
Mean:	1,08	1,13	1,05	1,10

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Termination Resistances in milliOhms.
****
Product Tested: Micro-MaTch. Paddleboard. Pn.2-215570-0.

Col.	Group	Lot	Test
-1-:	4	1	Resistance to Soldering Heat:260°C for 10 Sec.
-2-:	4	2	Resistance to Soldering Heat:260°C for 10 Sec.
-3-:	4	3	Resistance to Soldering Heat:260°C for 10 Sec.
-4-:	4	4	Resistance to Soldering Heat:260°C for 10 Sec.

	-1-	-2-	-3-	-4-
01	1,69	1,33	1,74	1,94
02	1,68	1,51	1,10	1,71
03	1,45	1,47	1,15	1,42
04	1,58	1,59	1,42	1,13
05	1,53	1,61	1,34	1,02
06	1,42	1,89	1,06	1,29
07	1,46	1,23	1,39	1,09
08	1,61	1,65	1,37	0,93
09	1,35	1,31	1,41	0,97
10	1,15	1,64	1,01	1,09
11	1,14	1,33	1,17	1,21
12	1,43	1,03	0,93	1,03
13	1,28	1,58	1,23	1,32
14	1,31	1,10	0,82	1,26
15	1,33	1,66	1,10	1,43
16	1,66	1,46	0,96	1,32
Max.:	1,69	1,89	1,74	1,94
Min.:	1,14	1,03	0,82	0,93
Mean:	1,44	1,46	1,20	1,26

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****
All values represented in NEWTONS.
****
Product Tested: Micro-MaTch. Paddleboard. Pn.2-215570-0.

Col.	Group	Lot	Test
-1-:	5	1-5	Axial tensile strength: Initial / Final.
-2-:	5	1-5	Axial tensile strength: Initial / Final.

	-1-	-2-
01	336	328
02	352	339
03	352	346
04	358	340
05	316	322
Max.:	358	346
Min.:	316	322
Mean:	342,8	335,0

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****
All values represented in Centi-NEWTONS.
****
Product Tested: Micro-MaTch. Paddleboard. (93.07.13)

Col.	Group	Lot	Test
-1-:	6	Ins.	Connector Ins./Extr. force in P.C.B.
-2-:	6	Extr.	Connector Ins./Extr. force in P.C.B.

	-1-	-2-
01	7403	3677
02	7282	3576
03	7301	3253
04	8488	3202
05	6689	3312
06	7980	3630
07	7749	3408
08	7019	3450
09	7206	3487
10	7032	2761
Max.:	8488	3677
Min.:	6689	2761
Mean:	7414,9	3375,6

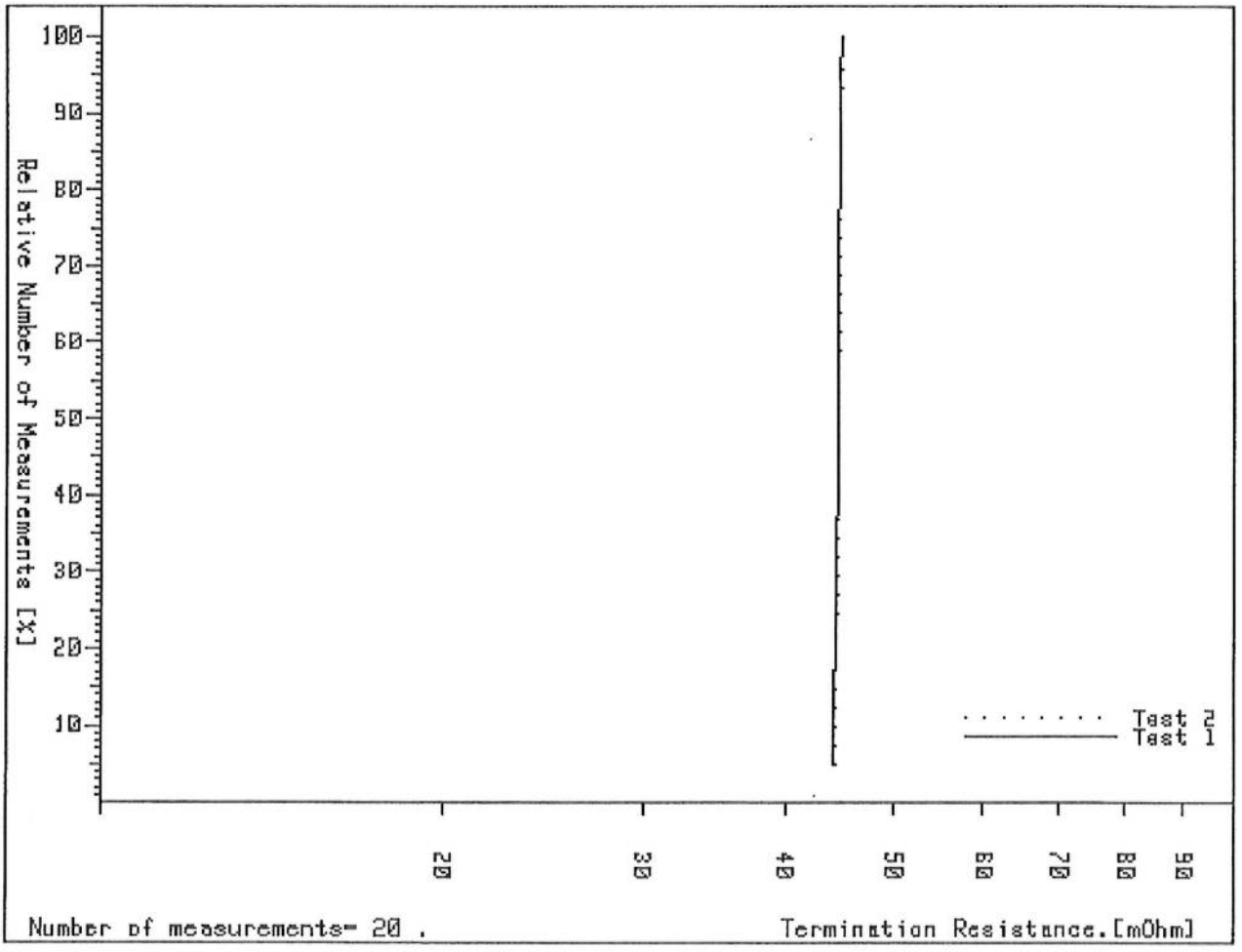
****

Product: MicroMaTch. SMC-MOW. (93.07.10).

Test 1 : Termination Resistance Initial.
Test 2 : 500 Hours Heat Age and Current cycling.
Group : 7
Lot : 1

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	44,99	45,04	0,30
Min. :	44,19	44,35	-0,03
Mean :	44,61	44,70	0,09
StDv :	0,23	0,20	0,08



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Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. SMC-MOW. (93.07.10).

Col.	Group	Lot	Test
-1-:	7	1	Termination Resistance Initial.
-2-:	7	1	500 Hours Heat Age and Current cycling.

	-1-	-2-
01	44,72	44,82
02	44,79	44,84
03	44,55	44,55
04	44,86	44,89
05	44,69	44,78
06	44,66	44,64
07	44,94	45,03
08	44,73	44,71
09	44,99	45,04
10	44,68	44,74
11	44,19	44,35
12	44,44	44,74
13	44,72	44,77
14	44,37	44,56
15	44,31	44,41
16	44,62	44,76
17	44,53	44,62
18	44,21	44,36
19	44,43	44,53
20	44,75	44,93
Max.:	44,99	45,04
Min.:	44,19	44,35
Mean:	44,61	44,70

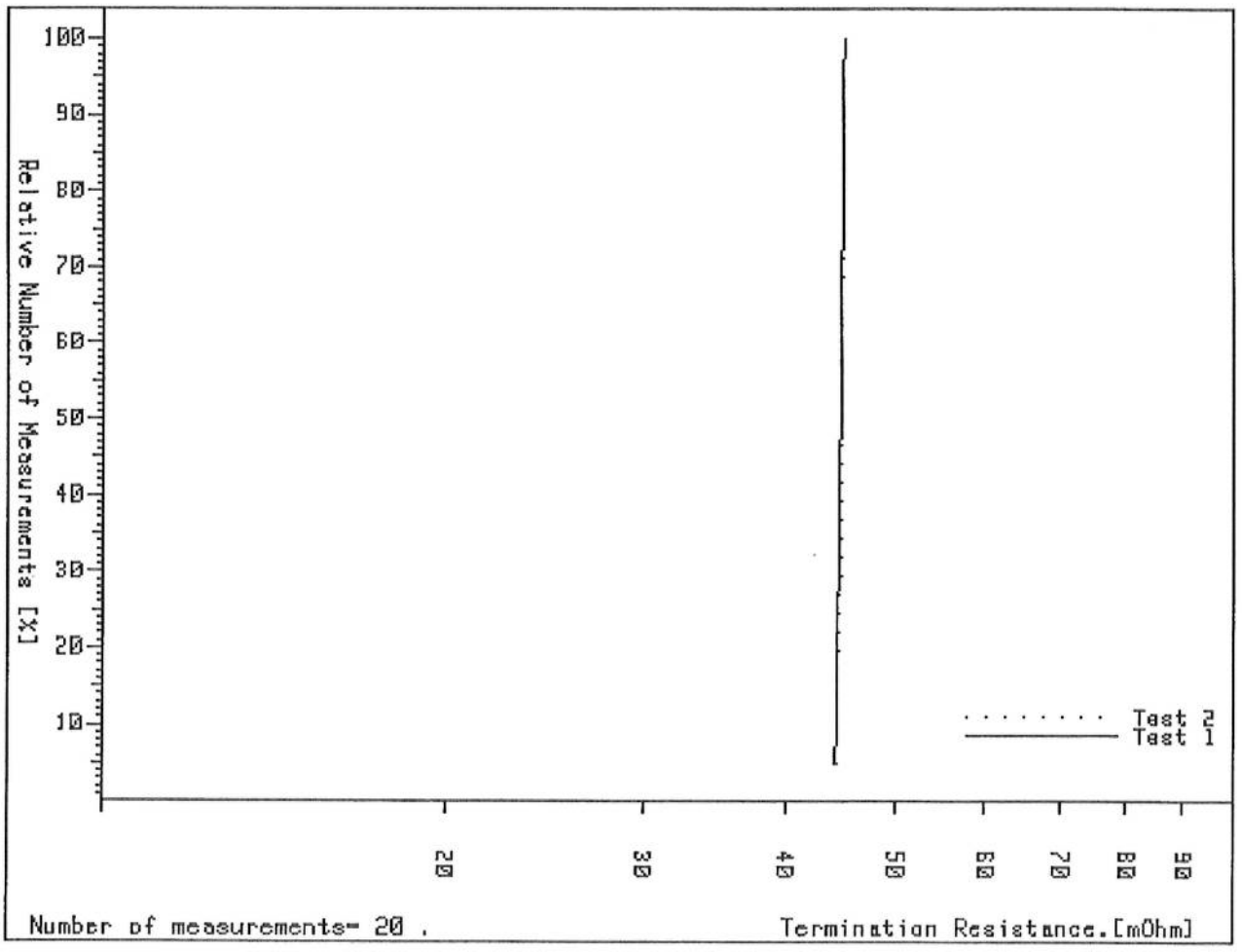
****

Product: MicroMaTch. SMC-MOW. (93.07.10).

Test 1 : Termination Resistance Initial.
Test 2 : 500 Hours Heat Age and Current cycling.
Group : 7
Lot : 2

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	45,27	45,59	0,32
Min. :	44,21	44,34	-0,09
Mean :	44,78	44,88	0,10
StDv :	0,26	0,29	0,08



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. SMC-MOW. (93.07.10).

Col.	Group	Lot	Test
-1-:	7	2	Termination Resistance Initial.
-2-:	7	2	500 Hours Heat Age and Current cycling.

	-1-	-2-
01	44,95	45,08
02	44,99	45,14
03	44,73	44,89
04	44,99	45,10
05	44,82	44,98
06	44,81	44,87
07	45,03	45,15
08	44,87	44,90
09	45,03	45,13
10	44,75	44,76
11	44,21	44,34
12	45,27	45,59
13	44,75	44,82
14	44,51	44,64
15	45,02	44,93
16	44,71	44,80
17	44,53	44,63
18	44,39	44,47
19	44,53	44,52
20	44,70	44,79
Max.:	45,27	45,59
Min.:	44,21	44,34
Mean:	44,78	44,88

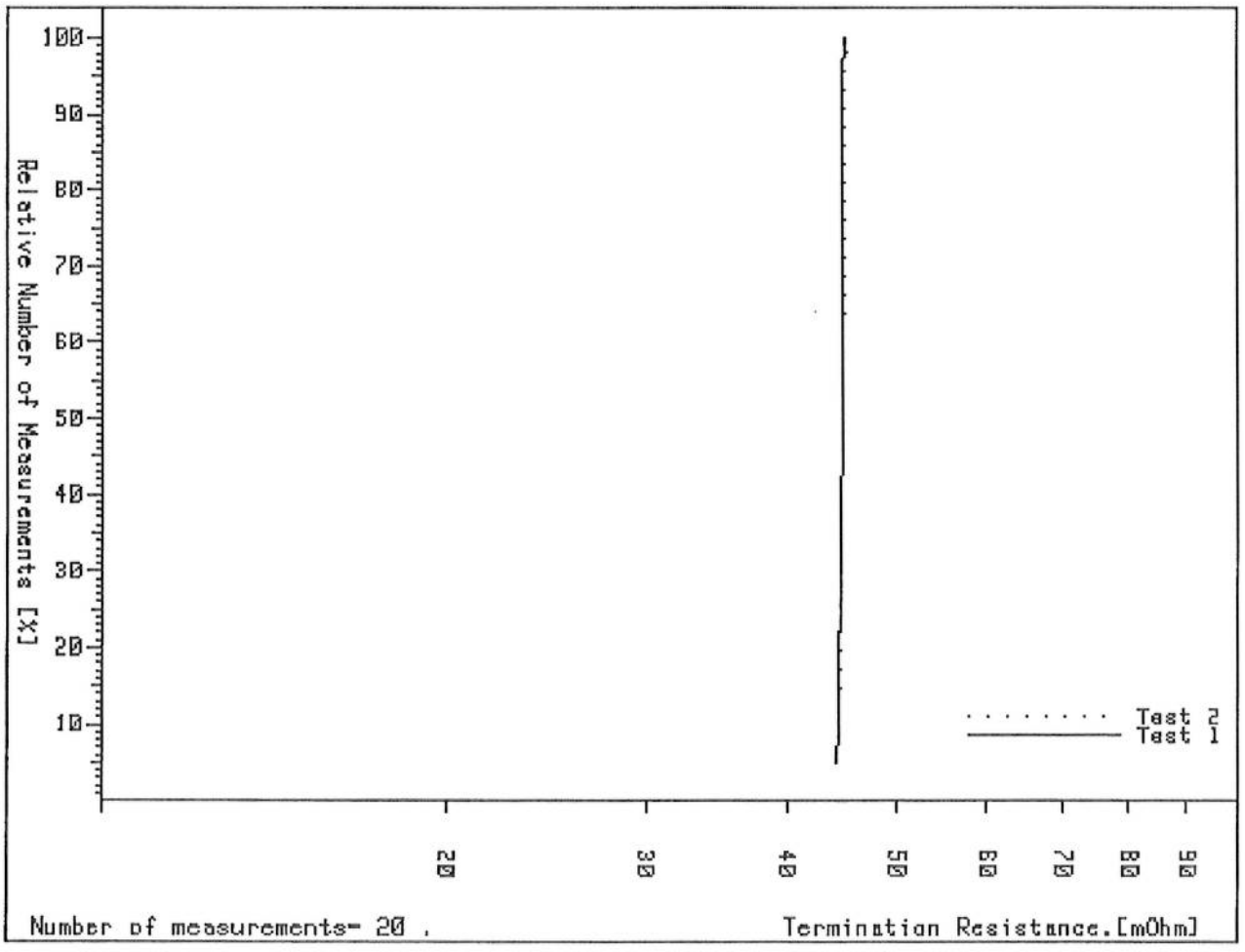
****

Product: MicroMaTch. SMC-MOW. (93.07.10).

Test 1 : Termination Resistance Initial.
Test 2 : 500 Hours Heat Age and Current cycling.
Group : 7
Lot : 3

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	45,14	45,24	0,18
Min. :	44,15	44,20	0,04
Mean :	44,73	44,84	0,11
StDv :	0,25	0,26	0,04



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. SMC-MOW. (93.07.10).

Col.	Group	Lot	Test
-1-:	7	3	Termination Resistance Initial.
-2-:	7	3	500 Hours Heat Age and Current cycling.

	-1-	-2-
01	44,84	44,99
02	44,96	45,08
03	44,64	44,73
04	45,14	45,24
05	44,76	44,92
06	44,86	44,90
07	44,97	45,10
08	44,91	44,97
09	44,91	45,08
10	44,90	44,99
11	44,15	44,20
12	44,60	44,70
13	44,87	44,96
14	44,56	44,73
15	44,46	44,54
16	44,85	44,98
17	44,54	44,67
18	44,34	44,46
19	44,52	44,61
20	44,79	44,95
Max.:	45,14	45,24
Min.:	44,15	44,20
Mean:	44,73	44,84

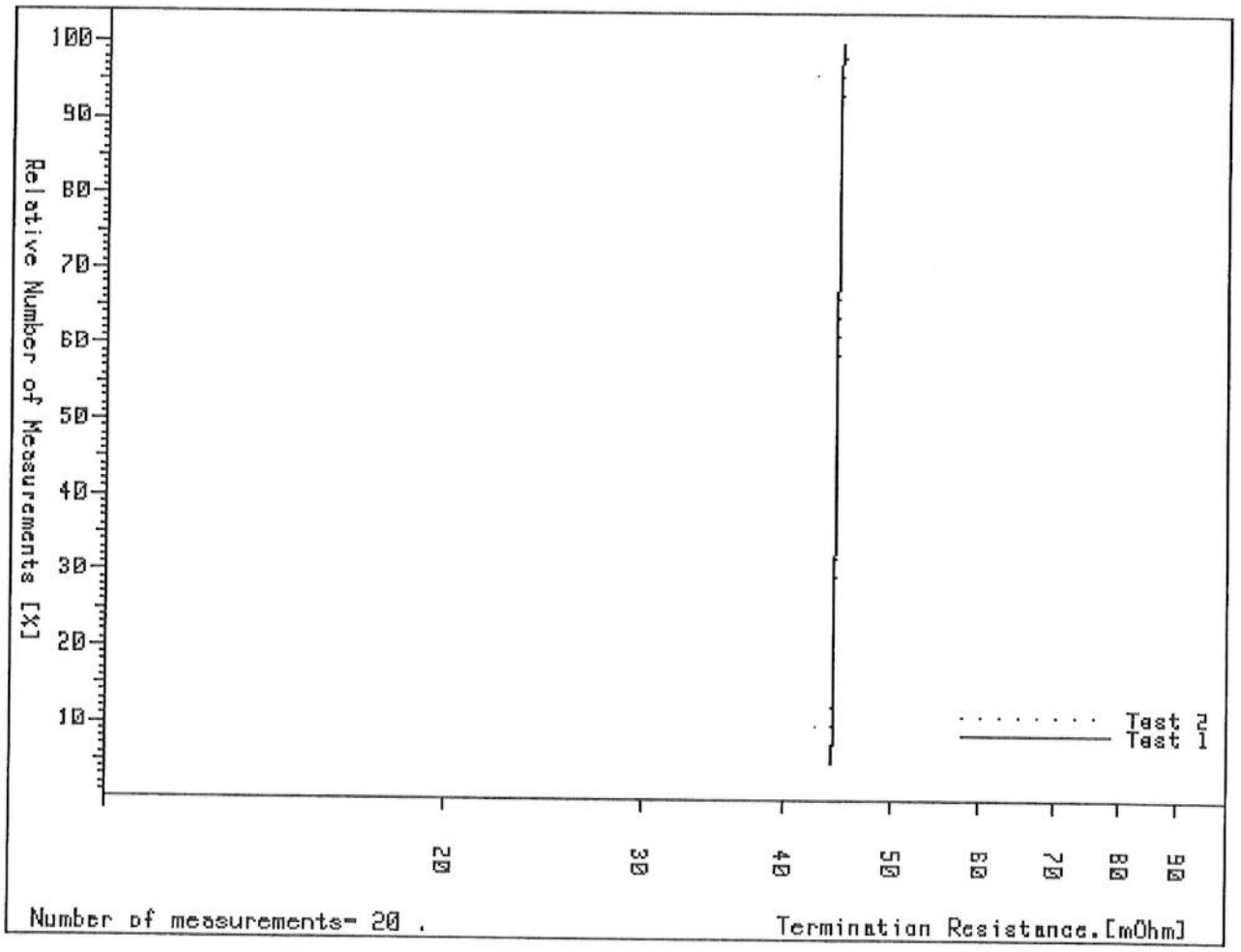
****

Product: MicroMaTch. SMC-MOW. (93.07.10).

Test 1 : Termination Resistance Initial.
Test 2 : 500 Hours Heat Age and Current cycling.
Group : 7
Lot : 4

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	45,17	45,25	0,12
Min. :	44,26	44,17	-0,40
Mean :	44,68	44,69	0,01
StDv :	0,23	0,26	0,11



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. SMC-MOW. (93.07.10).

Col.	Group	Lot	Test
-1-:	7	4	Termination Resistance Initial.
-2-:	7	4	500 Hours Heat Age and Current cycling.

	-1-	-2-
01	44,97	45,07
02	44,73	44,80
03	44,67	44,78
04	44,82	44,91
05	44,90	44,90
06	44,74	44,71
07	45,17	45,25
08	44,76	44,78
09	44,96	44,90
10	44,67	44,64
11	44,57	44,17
12	44,68	44,55
13	44,63	44,66
14	44,52	44,64
15	44,26	44,27
16	44,49	44,50
17	44,32	44,40
18	44,53	44,59
19	44,40	44,39
20	44,83	44,86
Max.:	45,17	45,25
Min.:	44,26	44,17
Mean:	44,68	44,69

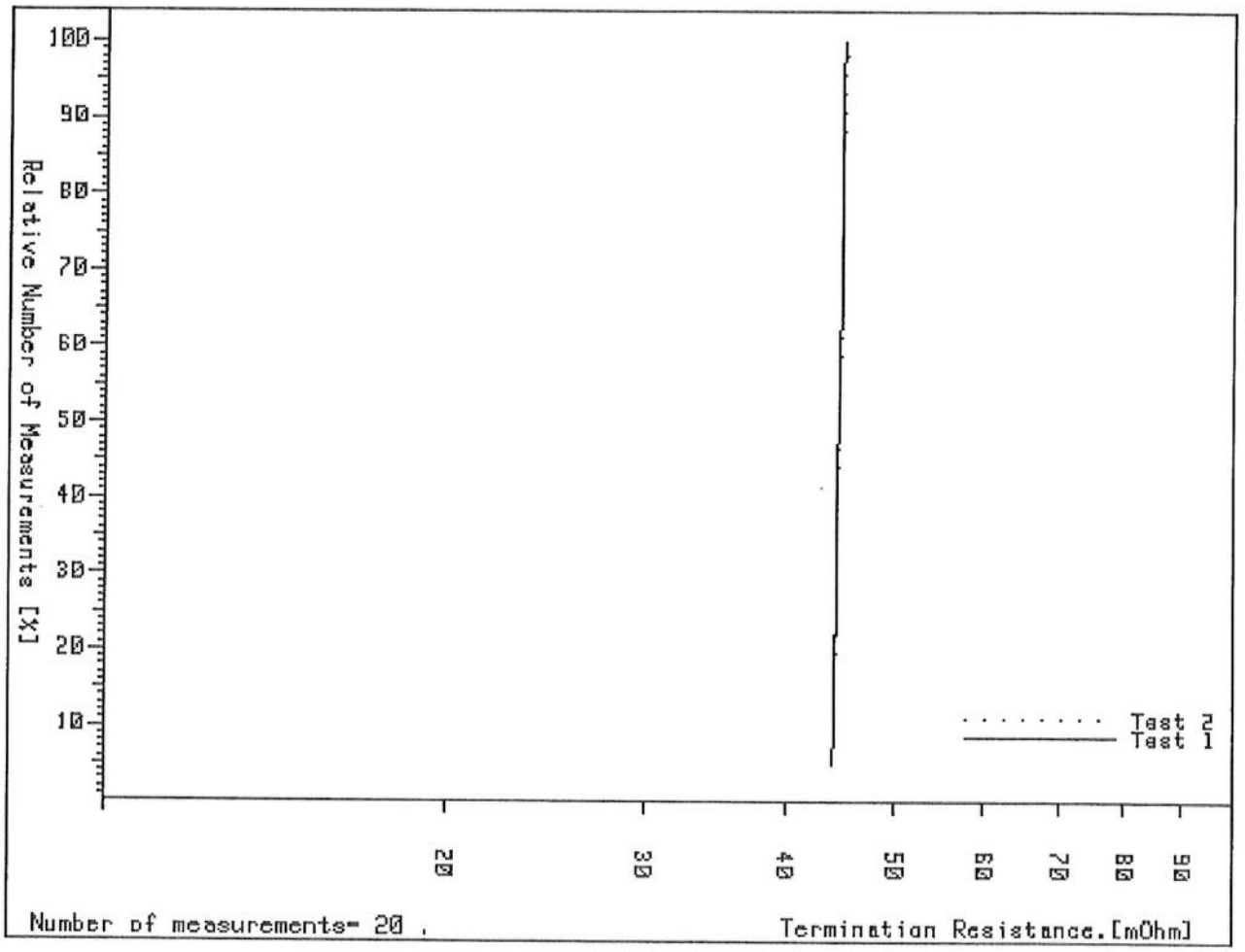
****

Product: MicroMaTch. SMC-MOW. (93.07.10).

Test 1 : Termination Resistance Initial.
Test 2 : 500 Hours Heat Age and Current cycling.
Group : 7
Lot : 5

All values in milliOhms

	Test 1	Test 2	delta R
Max. :	45,14	45,27	0,14
Min. :	44,03	44,07	0,01
Mean :	44,58	44,66	0,08
StDv :	0,29	0,31	0,04



****
Termination Resistances in milliOhms.
****
Product Tested: MicroMaTch. SMC-MOW. (93.07.10).

Col.	Group	Lot	Test
-1-:	7	5	Termination Resistance Initial.
-2-:	7	5	500 Hours Heat Age and Current cycling.

	-1-	-2-
01	44,81	44,93
02	44,67	44,74
03	44,44	44,53
04	44,85	44,94
05	44,89	45,00
06	44,77	44,83
07	44,88	44,99
08	44,76	44,81
09	45,14	45,27
10	44,83	44,86
11	44,18	44,23
12	44,57	44,68
13	44,37	44,41
14	44,33	44,47
15	44,03	44,07
16	44,51	44,61
17	44,30	44,38
18	44,20	44,29
19	44,37	44,38
20	44,65	44,76
Max.:	45,14	45,27
Min.:	44,03	44,07
Mean:	44,58	44,66

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