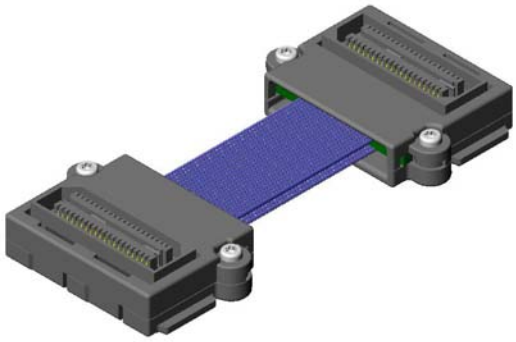
Project Number: NA	Tracking Code: TC0326--0218		
Requested by: John Reid	Date: 6/27/2003	Product Rev: 3	
Part #: EQCD-020-06.00-STR-STL-3	Lot #: 6/30/03	Tech: Troy Cook	Eng: John Reid
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch			Qty to test: 60
Test Start: 07/22/2003	Test Completed: 10/10/2003		



DVT

PART DESCRIPTION

EQCD-020-06.00-STR-STL-3

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: DVT, QSE DV-DV.

APPLICABLE DOCUMENTS

Standards: EIA Publication 364

TEST SAMPLES AND PREPARATION

1) All materials were manufactured in accordance with the applicable product specification.
2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
3) After soldering, the parts to be used for LLCR testing were cleaned according to TLWI-0001
4) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used
5) The automated procedure is used with aqueous compatible soldering materials
6) The ultrasonic procedure can be used with either aqueous or non-aqeous soldering components and follows:
   a) Sample test boards are to be ultrasonically cleaned after test lead attachment, preparation and/or soldering using the following process.
   b) Sample test boards are immersed into Branson 3510 cleaner containing Kyzen Ionox HC1 (or equivalent) with the following conditions:
      i) Temperature: ----------55° C+/- 5° C
      ii) Frequency:----------40 KHz
      iii) Immersion Time: ----------5 to 10 Minutes
   c) Sample test boards are removed and placed into the Branson 3510 cleaner containing deionized water with the following conditions:
      i) Temperature: ----------55° C +/- 5° C
      ii) Frequency:----------40 KHz
      iii) Immersion Time: ----------5 to 10 Minutes
   d) Sample test boards are removed and placed in a beaker positioned on a hot plate with a magnetic stirrer containing deionized water warmed to 55° C +/- 5° C for 1/2 to 1 minute
   e) Upon removal, the sample test boards are rinsed for 1/2 to 1 minute in room temperature free flowing deionized water.
   f) After the final rinse, the sample test boards are dried in an air-circulating oven for 10 to 15 minutes at 50° C +/- 5° C
   g) Sample test boards are then allowed to set and recover to room ambient condition prior to testing.
7) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
8) Any additional preparation will be noted in the individual test procedures.

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

FLOWCHARTS

TEST STEP	GROUP 1 On PC Board, DV 6 Adjacent Signal Lines	GROUP 2 Cable Center 6 Adjacent Signal Lines	GROUP 3 On PC Board, DV GP	GROUP 4 Cable Center GP
01	CCC	CCC	CCC	CCC

Tabulate calculated current at RT, 75° C, 80° C and 95° C
after derating 20% and based on 105° C
CCC, Temp rise = EIA-364-70

TEST STEP	GROUP 1A DV Top Cable	GROUP 1A DV Bottom Cable
01	IR	IR
02	Data Review	Data Review
03	Thermal Aging	Thermal Aging
04	IR	IR
05	Data Review	Data Review
06	Humidity	Humidity
07	IR	IR

Thermal Aging = EIA-364-17, Test Condition 4, 105 deg C;
Time Condition 'B' (250 hours)
Humidity =EIA-364-31, Test Condition B (240 Hours)
and Method III (+25 ° C to +65 ° C @ 90%RH to 98% RH)
delete steps 7a and 7b

TEST STEP	GROUP 1a DV Top Cable Ambient	GROUP 2a DV Bottom Cable Ambient	GROUP 1b DV Top Cable Thermal	GROUP 2b DV Bottom Cable Thermal	GROUP 1c DV Top Cable Humidity	GROUP 2c DV Bottom Cable Humidity
01	DWV/Working Voltage	DWV/Working Voltage	Thermal Aging	Thermal Aging	Humidity	Humidity
02			DWV/Working Voltage	DWV/Working Voltage	DWV/Working Voltage	DWV/Working Voltage

Thermal Aging = EIA-364-17, Test Condition 4, 105 deg C;
Time Condition 'B' (250 hours)
Humidity =EIA-364-31, Test Condition B (240 Hours)
and Method III (+25 ° C to +65 ° C @ 90%RH to 98% RH)
delete steps 7a and 7b

FLOWCHARTS Continued

TEST STEP	GROUP 1A	GROUP 1B
	DV	DV
	GND 0°	GND 90°
01	Pull test, Continuity	Pull test, Continuity

Secure both cables in the center
Monitor continuity and pull
record forces when continuity fails.

	Flex Mode	Pendulum Mode
TEST STEP	GROUP 1	GROUP 2
	DV	DV
-	GND, ±90° Bend Shroud	GND, ±35° Bend Shroud
01	Resistance	Resistance
02	5000 Cycles	5000 Cycles
03	Data Review	Data Review
04	Resistance	Resistance
05	10000 Cycles	10000 Cycles
06	Data Review	Data Review
07	Resistance	Resistance
08	15000 Cycles	15000 Cycles
09	Data Review	Data Review
10	Resistance	Resistance
11	20000 Cycles	20000 Cycles
12	Data Review	Data Review
13	Resistance	Resistance
14	25000 Cycles	25000 Cycles
15	Resistance	Resistance

Cycling with 8 oz. cable loading at 1500 to 3000 /Hour

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

ATTRIBUTE DEFINITIONS

Following is a brief, simplified description of attributes.

THERMAL AGING:

1) EIA-364-17, *Temperature Life with or without Electrical Load Test Procedure for Electrical Connectors.*
   a) Test Condition 4 at 105° C.
   b) Test Time Condition B for 250 hours.
2) Connectors are mated.

CYCLIC HUMIDITY:

1) Reference document: EIA-364-31, *Humidity Test Procedure for Electrical Connectors.*
   a) Test Condition B, 240 Hours.
   b) Method III, +25° C to + 65° C, 90% to 98% Relative Humidity excluding sub-cycles 7a and 7b.
2) Connectors are mated.

TEMPERATURE RISE (Current Carrying Capacity, CCC):

1) EIA-364-70, *Temperature Rise versus Current Test Procedure for Electrical Connectors and Sockets*.
2) When current passes through a contact, the temperature of the contact increases as a result of I^2R (resistive) heating.
3) The number of contacts being investigated plays a significant part in power dissipation and therefore temperature rise.
4) The size of the temperature probe can affect the measured temperature.
5) Copper traces on PC boards will contribute to temperature rise:
   a) Self heating (resistive)
   b) Reduction in heat sink capacity affecting the heated contacts
6) A de-rating curve, usually 20%, is calculated.
7) Calculated de-rated currents at three temperature points are reported:
   a) Ambient
   b) 75^{o} C
   c) 80^{o} C
   d) 95^{o} C
8) Typically, neighboring contacts (in close proximity to maximize heat build up) are energized.
9) The thermocouple (or temperature measuring probe) will be positioned at a location to sense the maximum temperature in the vicinity of the heat generation area.
10) A computer program, *TR 803.exe*, ensures accurate stability for data acquisition.
11) Hook-up wire cross section is larger than the cross section of any connector leads/PC board traces, jumpers, etc.
12) Hook-up wire length is longer than the minimum specified in the referencing standard.

ATTRIBUTE DEFINITIONS Continued

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

To determine if the sockets can operate at its rated voltage and withstand momentary over potentials due to switching, surges, and other similar phenomenon. Separate samples are used to evaluate the effect of environmental stresses so not to influence the readings from arcing that occurs during the measurement process.

1) PROCEDURE:
   a) Reference document: EIA-364-20, *Withstanding Voltage Test Procedure for Electrical Connectors*.
   b) Test Conditions:
      i) Between Adjacent Contacts
      ii) Mated
      iii) Mounted
      iv) Rate of Application 500 V/Sec
      v) Test Voltage (VAC) until breakdown occurs
2) MEASUREMENTS/CALCULATIONS
   a) The breakdown voltage shall be measured and recorded.
   b) The dielectric withstanding voltage shall be recorded as 75% of the minimum breakdown voltage.
   c) The working voltage shall be recorded as one-third (1/3) of the dielectric withstanding voltage (one-fourth of the breakdown voltage).

INSULATION RESISTANCE (IR):

To determine the resistance of insulation materials to leakage of current through or on the surface of these materials when a DC potential is applied.

1) PROCEDURE:
   a) Reference document: EIA-364-21, *Insulation Resistance Test Procedure for Electrical Connectors*.
   b) Test Conditions:
      i) Between Adjacent Contacts
      ii) Mated
      iii) Mounted
      iv) Electrification Time 2.0 minutes
      v) Test Voltage (VDC) corresponding to calibration settings for measuring resistances
2) MEASUREMENTS:
   a) When the specified test voltage is applied (VDC), the insulation resistance shall not be less than 1000 megohms.

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

SUPPLEMENTAL TESTS:

1. **Connector Pull … Secure cable near cable center and pull on connector**
   a. **At 90°, right angle to cable**

   b. **At 0°, in-line with cable**

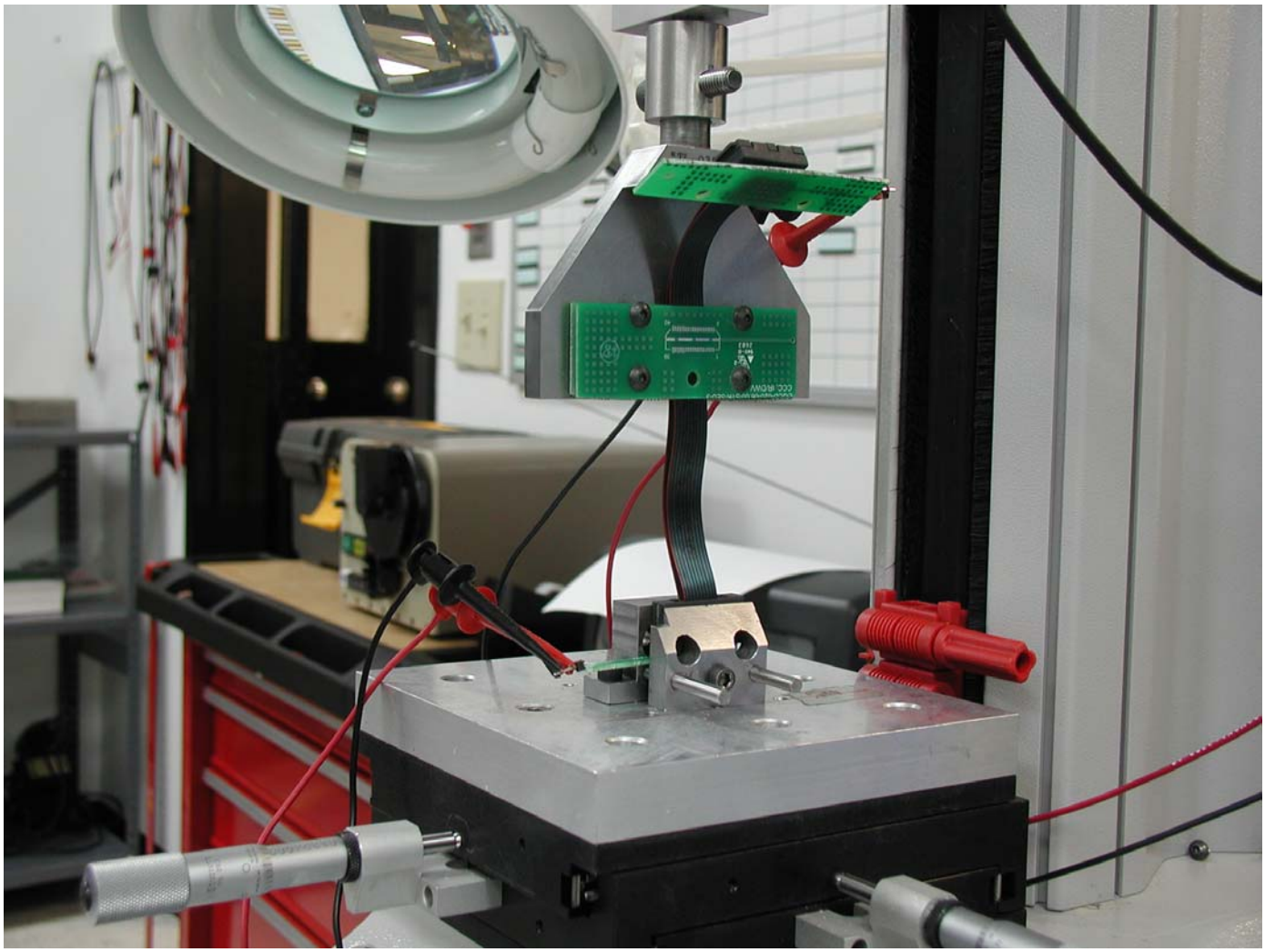
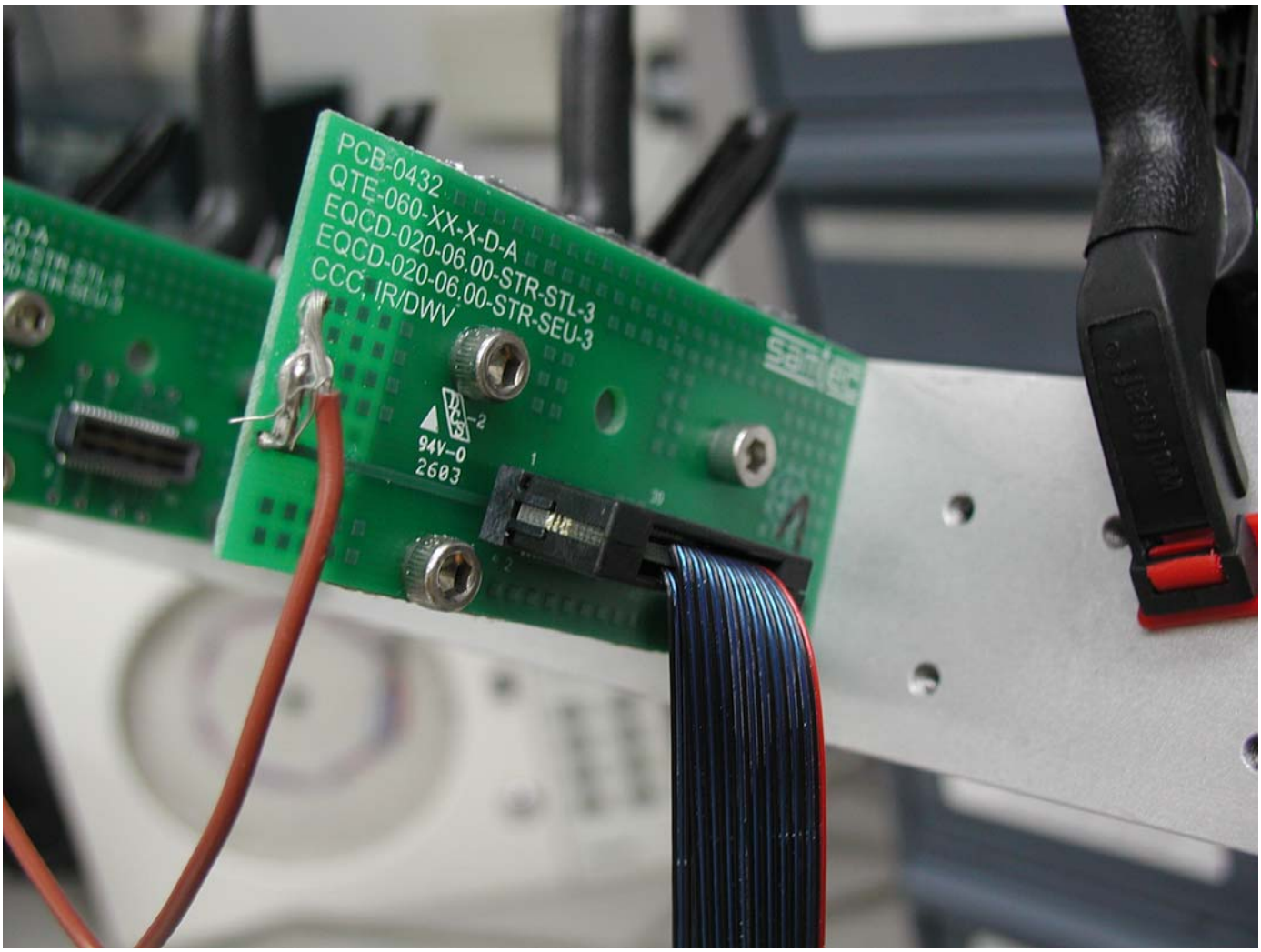


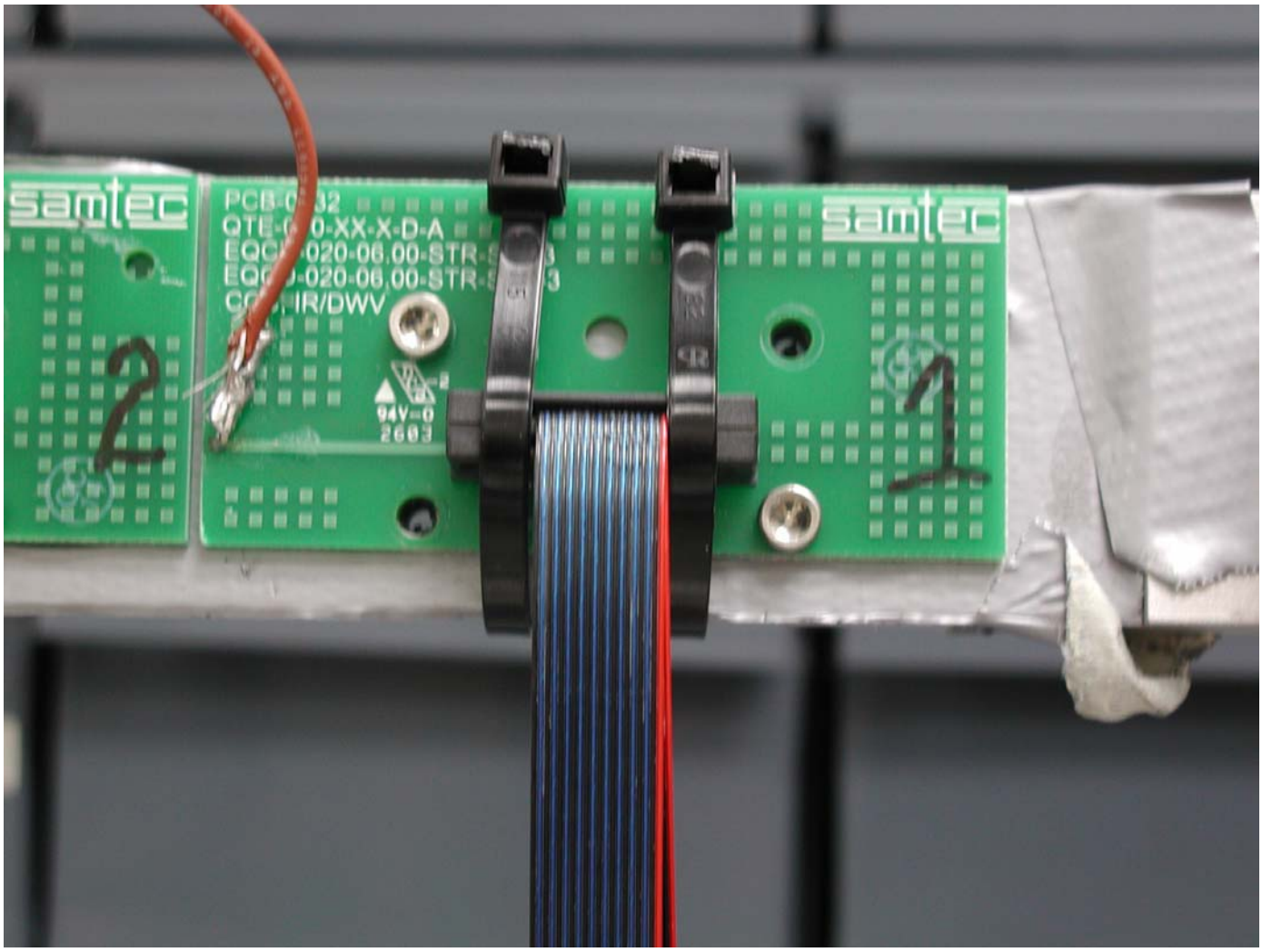
Fig. 1
0° connector pull. Notice the electrical continuity hook-up wires

2. Cable Durability, Bend up to 25,000 cycles with an 8 oz. load on cable end

a. ± 35° Pendulum Mode



b. ± 90° Flex Mode



Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

RESULTS

Temperature Rise, CCC At 95°C, relative to 105°C and 20% de-rated

- **At Cable Termination on PCB**
  - **6 Adjacent Conductors Powered----------0.36 A**
  - **Ground Plane Powered ----------5.4 A**
- **At Center of Cable**
  - **6 Adjacent Conductors Powered----------0.33 A**
  - **Ground Plane Powered ----------9.4 A**

Dielectric Withstanding Voltage minimums, DWV

- **Initial**
  - **Breakdown ---------- 1000 VAC**
  - **DWV----------750 VAC**
  - **Working voltage----------250 VAC**
- **Thermal**
  - **Breakdown ----------960 VAC**
  - **DWV----------720 VAC**
  - **Working voltage----------240 VAC**
- **Humidity**
  - **Breakdown ----------940 VAC**
  - **DWV----------705 VAC**
  - **Working voltage----------235 VAC**

Insulation Resistance minimums, IR

- **Initial----------100,000 Meg Ω ---------- Pass**
- **Thermal---------- 50,000 Meg Ω**
- **Humidity----------100,000 Meg Ω**

Supplemental – Connector/Cable Pull

- **0°---------- 60.88 lbs min**
- **90° ---------- 45.12 lbs min**

Supplemental – Cable Bend 25,000 Cycles

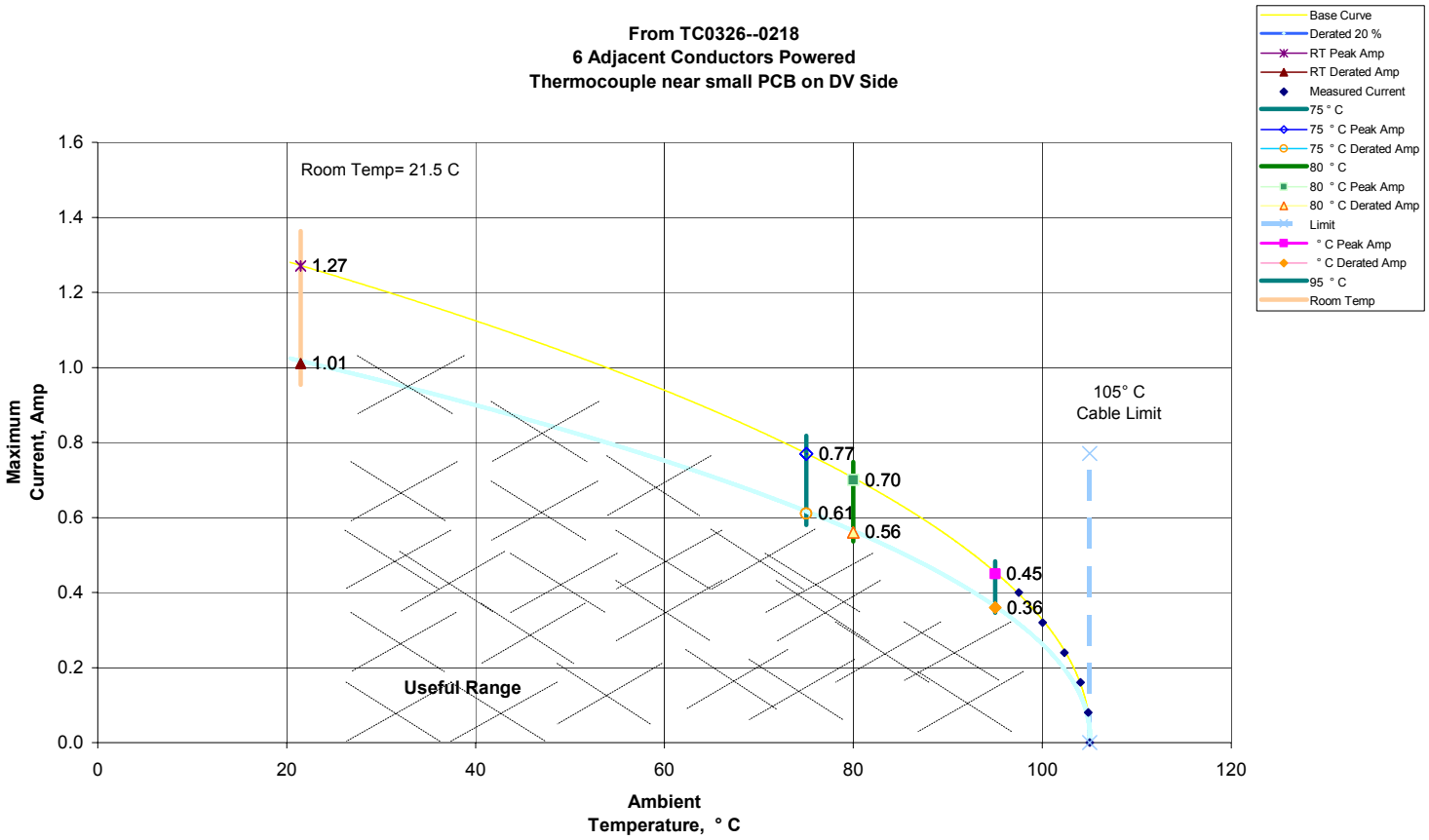
- **0°---------- No Electrical Failures**
- **90° ---------- No Electrical Failures**

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES

TEMPERATURE RISE (Current Carrying Capacity, CCC):

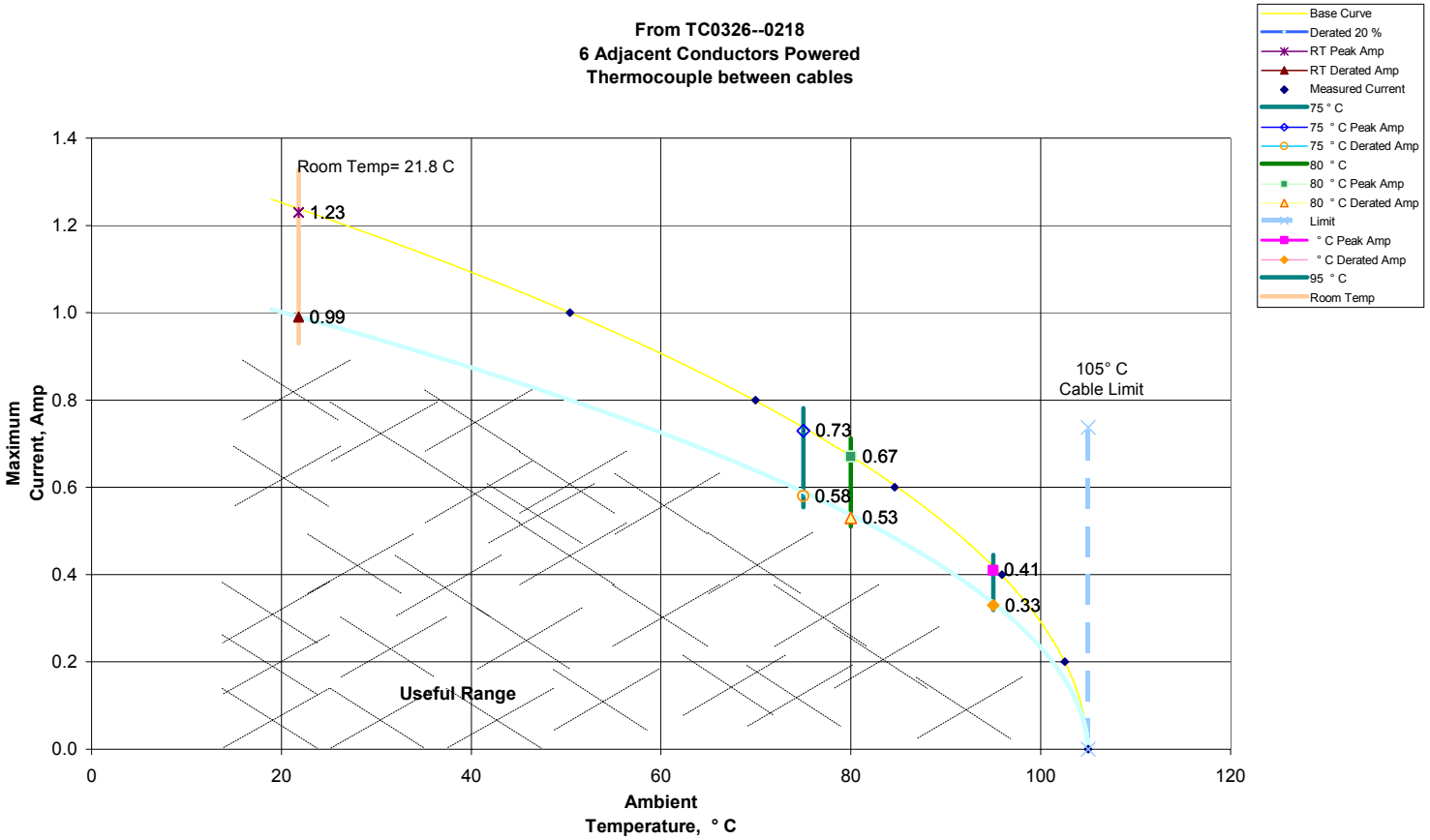
1) High quality thermocouples whose temperature slopes track one another were used for temperature monitoring.
2) The thermocouples were placed at a location to sense the maximum temperature generated during testing.
3) Temperature readings recorded are those for which three successive readings, 15 minutes apart, differ less than 1° C (computer controlled data acquisition).
4) Two configurations were tested and temperatures were monitored at the PCB near cable termination and at a point near the center of the cable, remote from the PBC:
   a) Ground Plane Powered



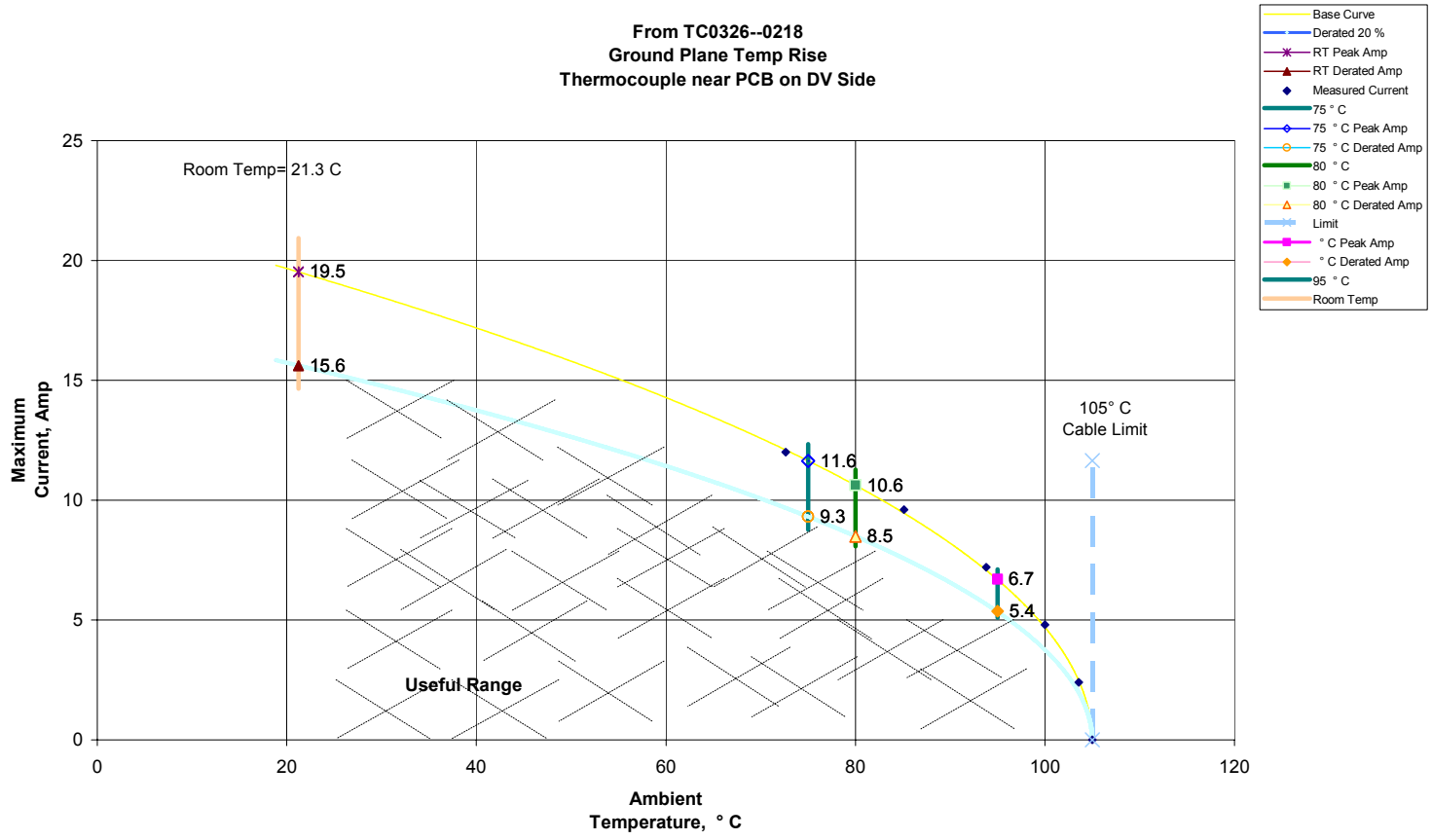
Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES Continued

From TC0326--0218
6 Adjacent Conductors Powered
Thermocouple between cables

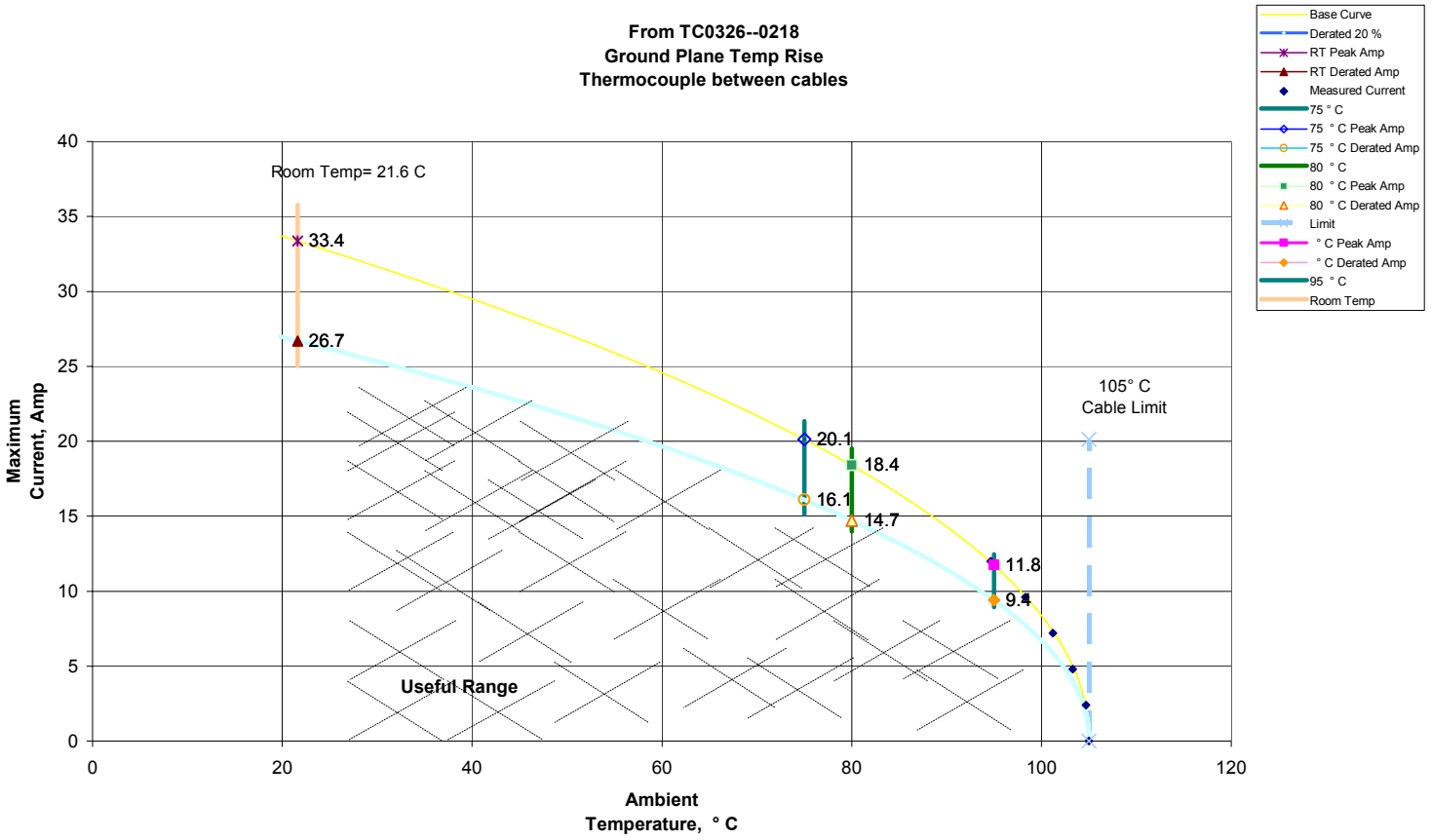


From TC0326--0218
Ground Plane Temp Rise
Thermocouple near PCB on DV Side



Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES Continued



DATA SUMMARIES Continued

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Voltage Rate ***500 VAC Per Sec.***
Test Voltage ***Until Breakdown Occurs***

Initial, VAC

	Breakdown Voltage	DWV	Working Voltage
Average	1020	765	255
Min	1000	750	250
Max	1040	780	260

Voltage Rate ***500 VAC Per Sec.***
Test Voltage ***Until Breakdown Occurs***

Thermal, VAC

	Breakdown Voltage	DWV	Working Voltage
Average	1005	754	251
Min	960	720	240
Max	1050	788	263

Voltage Rate ***500 VAC Per Sec.***
Test Voltage ***Until Breakdown Occurs***

Humidity, VAC

	Breakdown Voltage	DWV	Working Voltage
Average	1145	859	286
Min	940	705	235
Max	1350	1013	338

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES Continued

INSULATION RESISTANCE (IR):

Electrification Time ***Two (2) minutes***

Initial, Meg Ohms

	Insulation Resistance
Average	100000
Min	100000
Max	100000

Electrification Time ***Two (2) minutes***

Thermal, Meg Ohms

	Insulation Resistance
Average	75000
Min	50000
Max	100000

Electrification Time ***Two (2) minutes***

Humidity, Meg Ohms

	Insulation Resistance
Average	100000
Min	100000
Max	100000

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES Continued

SUPPLEMENTAL TESTS: Connector Pull

Pull DV 0 Degrees

	Force (Lbs)
Minimum	60.88
Maximum	*129.98*
Average	***89.16***

Pull DV 90 Degrees

	Force (Lbs)
Minimum	45.12
Maximum	*100.13*
Average	***72.2***

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

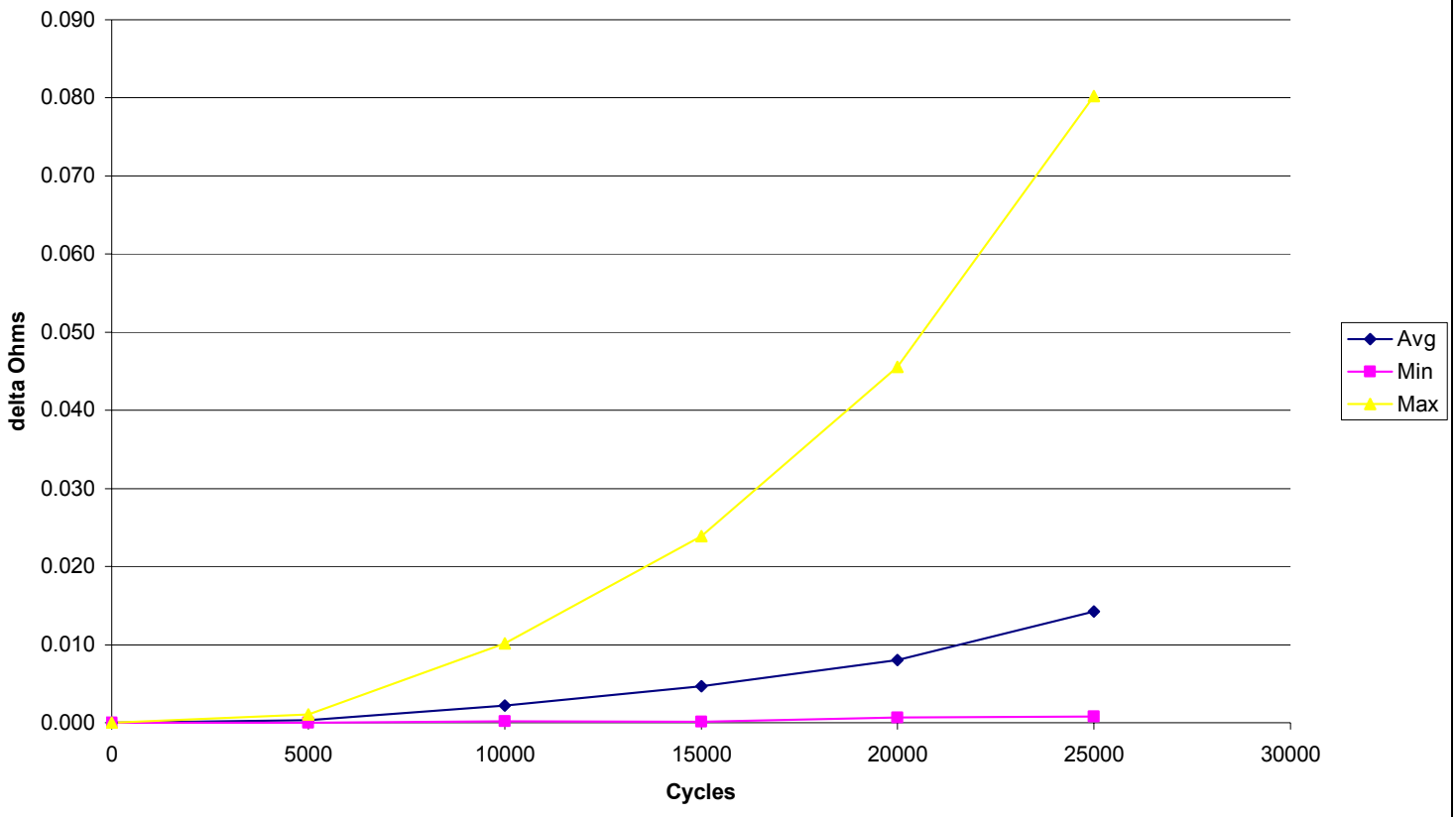
DATA SUMMARIES Continued

SUPPLEMENTAL TESTS: Cable Durability ± 90° Flex Mode

DV End 90 Degrees

	Resistance Change, Ohms/Gnd System					
	Initial	5000 Cycles	10000 Cycles	15000 Cycles	20000 Cycles	25000 Cycles
Avg	0.0000	0.0003	0.0022	0.0047	0.0081	0.0143
Min	0.0000	0.0000	0.0002	0.0002	0.0007	0.0008
Max	0.0000	0.0011	0.0102	0.0239	0.0456	0.0803
St. Dev.	0.0000	0.0003	0.0031	0.0074	0.0142	0.0251

From TC0337--0280
Ground Durability - DV End
± 90 Degree Flex



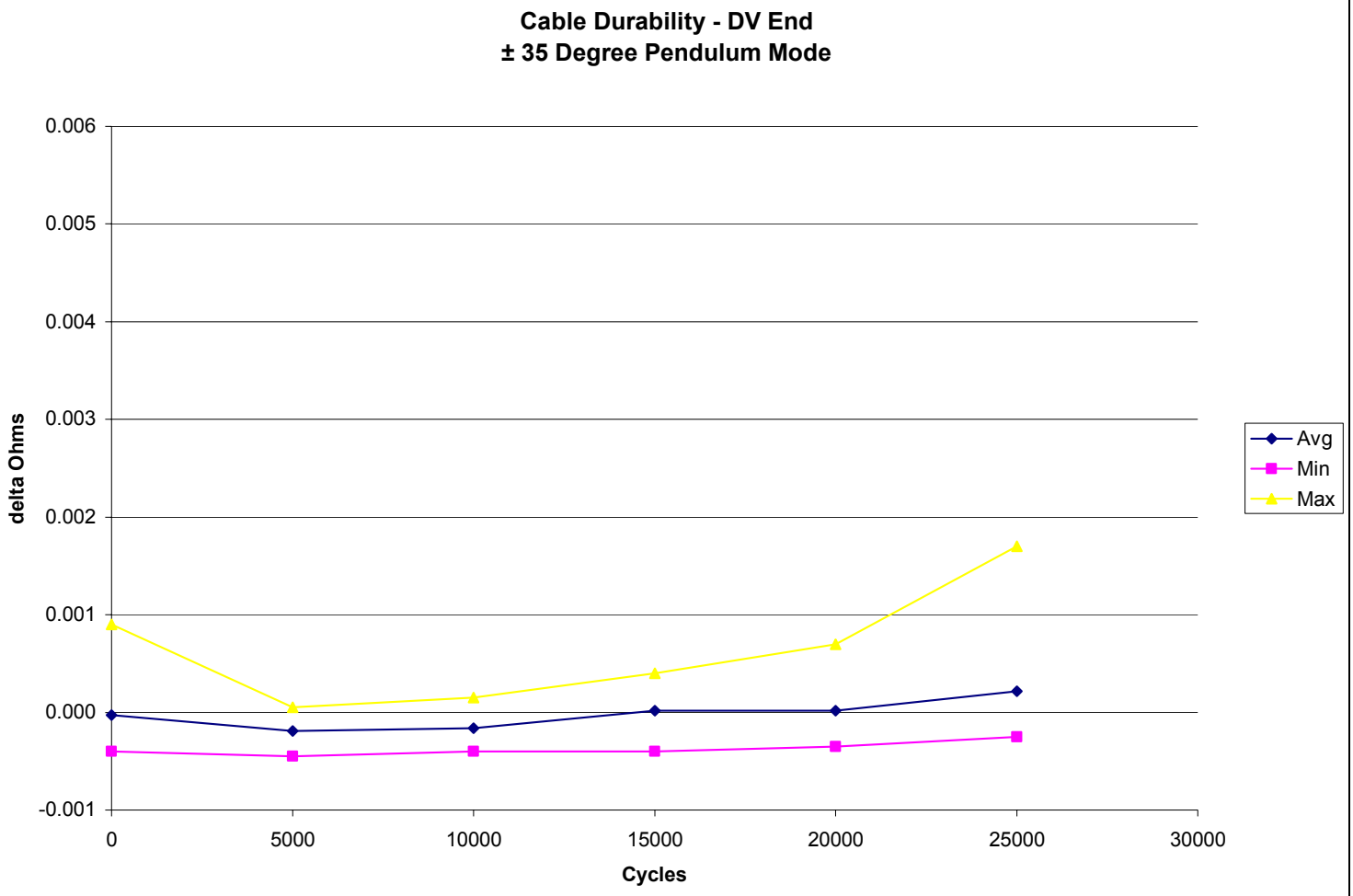
Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA SUMMARIES Continued

SUPPLEMENTAL TESTS: Cable Durability ± 35° Pendulum Mode

DV 35
END degrees

	Resistance, Ohms/gnd system, +/- 35 Degree Pendulum Mode					
	Initial	**5000 Cycles**	**10000 Cycles**	**15000 Cycles**	**20000 Cycles**	**25000 Cycles**
Avg	0.0000	-0.0002	-0.0002	0.0000	0.0000	0.0002
Min	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0002
Max	0.0009	0.0001	0.0002	0.0004	0.0007	0.0017
St. Dev.	0.0004	0.0003	0.0004	0.0005	0.0006	0.0012



Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Test Date:	7/15/2003	Initial, VAC
Operator:	Troy Cook	
Temperature (C):	22	
Humidity (RH):	56%	
Pressure (In. Hg):	29.38	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Voltage Rate ***500 VAC Per Sec.***
Test Voltage ***Until Breakdown Occurs***
Initial, VAC

Sample #	**Breakdown Voltage**	**DWV**	**Working Voltage**
1	1000	750	250
2	1040	780	260

Sample #1 is top cable, #2 , Bottom

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

Test Date:	7/15/2003	Thermal, VAC
Operator:	Troy Cook	
Temperature (C):	22	
Humidity (RH):	56%	
Pressure (In. Hg):	29.38	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Voltage Rate ***500 VAC Per Sec.***

Test Voltage ***Until Breakdown Occurs***

Thermal, VAC

Sample #	**Breakdown Voltage**	**DWV**	**Working Voltage**
1	1050	788	263
2	960	720	240

Sample #1 is top cable, #2 , Bottom

Test Date:	7/15/2003	Humidity, VAC
Operator:	Troy Cook	
Temperature (C):	22	
Humidity (RH):	56%	
Pressure (In. Hg):	29.38	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Voltage Rate ***500 VAC Per Sec.***

Test Voltage ***Until Breakdown Occurs***

Humidity, VAC

Sample #	**Breakdown Voltage**	**DWV**	**Working Voltage**
1	1350	1013	338
2	940	705	235

Sample #1 is top cable, #2 , Bottom

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

INSULATION RESISTANCE (IR):

Test Date:	7/3/2003	Initial
Operator:	Troy Cook	
Temperature (C):	24	
Humidity (RH):	48%	
Pressure (In. Hg):	29.23	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Electrification Time ***Two (2) minutes***

Initial

Sample #	**Insulation Resistance**
1 (Top)	100000
2 (Bottom)	100000

Sample #1 is top cable, #2 , Bottom

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

Test Date:	7/15/2003	Thermal
Operator:	Troy Cook	
Temperature (C):	24	
Humidity (RH):	46%	
Pressure (In. Hg):	29.23	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Electrification Time ***Two (2) minutes***

Thermal

Sample #	**Insulation Resistance**
1 (Top)	50000
2 (Bottom)	100000

Sample #1 is top cable, #2 , Bottom

Test Date:	8/4/2003	Humidity
Operator:	Troy Cook	
Temperature (C):	23	
Humidity (RH):	52%	
Pressure (In. Hg):	29.23	
Equipment ID:	STG-01	

Contact Part #:	EQCD-DV
Used In:	N/A

Test Conditions	**YES**	**NO**
Adjacent Contacts	**X**	
Mated	**X**	
PC Mounted	**X**	

Electrification Time ***Two (2) minutes***

Humidity

Sample #	**Insulation Resistance**
1 (Top)	100000
2 (Bottom)	100000

Sample #1 is top cable, #2 , Bottom

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

SUPPLEMENTAL: Connector Pull 0°

Test Date:	9/11/2003
Operator:	Troy Cook
Temperature (C):	23
Humidity (RH):	57%
Pressure (In. Hg):	29.53
Equipment ID:	TCT-03
Load Cell:	LC-2500N(icell)
Readout ID:	MO-01

Contact Part #:	N/A
Used In:	EQCD-DV-DV

Pull DV 0 Degrees

Sample#	Force (Lbs)
1	76.73
2	110.27
3	60.88
4	129.98
5	67.93

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

SUPPLEMENTAL: Connector Pull 90°

Test Date:	7/31/2003
Operator:	Troy Cook
Temperature (C):	24
Humidity (RH):	47%
Pressure (In. Hg):	29.35
Equipment ID:	TCT-03
Load Cell:	LC-2500N(icell)
Readout ID:	MO-01

Contact Part #:	N/A
Used In:	EQCD-DV-DV

DV 90 Degrees	
Sample#	Maximum Force (Lbs)
1	100.13
2	71.45
3	60.04
4	66.84
5	45.12
6	63.82
7	90.06
8	65.24
9	61.05
10	87.20
11	83.19

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

SUPPLEMENTAL TESTS: Cable Durability ± 90° Flex Mode

	Initial	5000 Cycles	10000 Cycles	15000 Cycles	20000 Cycles	25000 Cycles
Test Date:	9/17/2003	9/17/2003	9/17/2003	9/17/2003	9/18/2003	9/18/2003
Operator:	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook
Temperature (C):	23	23	23	23	23	23
Humidity (RH):	48%	48%	48%	48%	44%	44%
Pressure (In. Hg):	29.53	29.53	29.53	29.53	29.44	29.44
Equipment ID:	MO-01	MO-01	MO-01	MO-01	MO-01	MO-01

DV End 90 Degrees

Cable	**Resistance Change, Ohms/Gnd System, +/- 90 Degree Flex Mode**					
	Initial	**5000 Cycles**	**10000 Cycles**	**15000 Cycles**	**20000 Cycles**	**25000 Cycles**
1	0.0095	0.0096	0.0105	0.0109	0.0121	0.0123
2	0.0097	0.0101	0.0114	0.0130	0.0128	0.0148
3	0.0098	0.0102	0.0122	0.0148	0.0164	0.0216
4	0.0097	0.0097	0.0099	0.0103	0.0114	0.0127
5	0.0094	0.0097	0.0115	0.0127	0.0133	0.0222
6	0.0095	0.0100	0.0109	0.0117	0.0136	0.0148
7	0.0097	0.0099	0.0107	0.0122	0.0142	0.0165
8	0.0100	0.0159	0.1356			
9	0.0097	0.0097	0.0099	0.0098	0.0104	0.0105
10	0.0112	0.0123	0.0214	0.0351	0.0568	0.0915

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

DATA Continued

SUPPLEMENTAL TESTS: Cable Durability ± 35° Pendulum Mode

	Initial	5000 Cycles	10000 Cycles	15000 Cycles	20000 Cycles	25000 Cycles
Test Date:	9/24/2003	9/24/2003	9/24/2003	9/25/2003	9/25/2003	9/25/2003
Operator:	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook
Temperature (C):	22	22	22	23	23	23
Humidity (RH):	46%	46%	46%	48%	48%	48%
Pressure (In. Hg):	30	30	30	30	30	30
Equipment ID:	MO-01	MO-01	MO-01	MO-01	MO-01	MO-01
Equipment ID:	HDR - 01	HDR - 01	HDR - 01	HDR - 01	HDR - 01	HDR - 01

DV END 35 degrees

Cable	**Resistance, Ohms/Gnd System +/1 35 Degree Pendulum Mode**					
	Initial	**5000 Cycles**	**10000 Cycles**	**15000 Cycles**	**20000 Cycles**	**25000 Cycles**
1	0.0098	0.0096	0.0094	0.0097	0.0096	0.0097
2	0.0098	0.0098	0.0098	0.0098	0.0098	0.0099
3	0.0098	0.0097	0.0094	0.0099	0.0099	0.0100
4	0.0094	0.0094	0.0094	0.0094	0.0094	0.0095
5	0.0095	0.0094	0.0094	0.0095	0.0095	0.0096
6	0.0096	0.0096	0.0096	0.0099	0.0099	0.0100
7	0.0097	0.0097	0.0097	0.0097	0.0097	0.0097
8	0.0107	0.0097	0.0099	0.0101	0.0099	0.0101
9	0.0095	0.0093	0.0099	0.0102	0.0105	0.0115

Tracking Code: TC0326--0218	Part #: EQCD-020-06.00-STR-STL-3
Part description: Micro Co-ax High Speed Cable Assy, 0.8 mm Pitch	

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: THL-01
Description: Temperature/Humidity Chart Recorder
Manufacturer: Dickson
Model: THDX
Serial #: 9316255
Accuracy: Temp: +/- 1C; Humidity: +/-2% RH (0 - 60%) +/- 3% RH (61 - 95%).
… Last Cal: 7/15/02, Next Cal: 7/15/03

Equipment #: MO-02
Description: Multimeter /Data Acquisition System
Manufacturer: Keithley
Model: 2700
Serial #: 0780546
Accuracy: See Manual
… Last Cal6/12/03, Next Cal: 6/12/04

Equipment #: MO-04
Description: Multimeter /Data Acquisition System
Manufacturer: Keithley
Model: 2700
Serial #: 0798688
Accuracy: See Manual
… Last Cal: 6/12/03, Next Cal: 6/12/04

Equipment #: PS-01
Description: System Power Supply
Manufacturer: Hewlett Packard
Model: HP 6033A
Serial #: (HP) 3329A-07330
Accuracy: See Manual
… Last Cal: 6/12/03, Next Cal: 6/12/04

Equipment #: TC090601-103/105
Description: IC Thermocouple-103/105
Manufacturer: Samtec
Serial #: TC090601-103/105
Accuracy: +/- 1 degree C

Equipment #: HPM-01
Description: Hipot Megommeter
Manufacturer: Hipotronics
Model: H306B-A
Serial #: M9905004
Accuracy: 2 % Full Scale Accuracy
… Last Cal: 6/12/03, Next Cal: 6/12/04

Equipment #: OV-03
Description: Cascade Tek Forced Air Oven
Manufacturer: Cascade Tek
Model: TFO-5
Serial #: 0500100
Accuracy: Temp. Stability: +/-.1C/C change in ambient Temp. Stability: +/-.1C/C change in ambient
… Last Cal: 6/25/02, Next Cal: 6/25/03

Equipment #: THC-01
Description: Temperature/Humidity Chamber
Manufacturer: Thermotron
Model: SM-8-7800
Serial #: 30676
Accuracy: See Manual
… Last Cal: 5/28/2003, Next Cal: 5/28/2004

Equipment #: TCT-03
Description: Dillon Quantrol TC2 Test Stand
Manufacturer: Dillon Quantrol
Model: TC2
Serial #: 02-1033-03
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.
… Last Cal: 6/12/03, Next Cal: 6/12/04

Equipment #: LC-2500N(icell)
Description: 2500 N Load Cell for Dillon Quantrol
Manufacturer: Dillon Quantrol
Model: icell
Serial #: 01-0132-01
Accuracy: .10% of capacity
… Last Cal: 3/27/03, Next Cal: 3/27/04

Equipment #: MO-01
Description: Micro-Ohmeter
Manufacturer: Keithley
Model: 580
Serial #: 9316255
Accuracy: See Manual
… Last Cal: 6/12/03, Next Cal: 6/12/04

Equipment #: HDR - 01
Description: HDR Flex Tester
Manufacturer: Samtec Inc.
Model: AT-1440-000
Serial #: AT-1440-000
Accuracy: N/A N/A
… Last Cal: Calibration Not Required