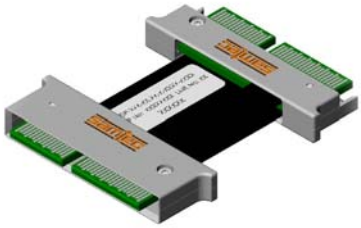
Series: EEDP 30 AWG ribbon twinax HS Cable Assembly, 0.8 mm pitch



1.0 SCOPE

1.1 This specification covers performance, test and quality requirements for the Samtec EEDP .8mm Twinax Edge Card High Data Rate Cable

2.0 ELECTRICAL

2.1 Dielectric Withstanding Voltage, DWV, per EIA-364-20
- 2.1.1 675 VAC SIG-SIG and 615 VAC SIG-GND

2.2 Insulation Resistance, IR, per EIA-364-21
- 2.2.1 >5000 Meg Ohms, SIG-SIG and SIG-GND --- PASS

3.0 MATERIALS

3.1 Insulator Material
- 3.1.1 LCP

3.2 Contact Pads
- 3.2.1 Gold Plated PCB

4.0 MECHANICAL

4.1 Operational Temperature
- 4.1.1 -20 degrees C to 90 degrees C

4.2 Cable Flexing Life with 8 oz. load on end of cable, Loss of SIG or GND continuity
- 4.2.1 35 degree mode: 70,000 cycles
- 4.2.2 90 degree mode: 1,000 cycles

4.3 Cable /Connector Pull, Loss of SIG or GND continuity
- 4.3.1 0 degree in-line pull: 162 lbs.
- 4.3.2 90 degree pull: 85 lbs.

5.0 ENVIRONMENTAL

5.1 Thermal Aging per EIA-364-17
- 5.1.1 DWV at 825 VAC SIG-SIG and 675 VAC SIG-GND
- 5.1.2 Insulation Resistance >5000 Meg Ohms, SIG-SIG and SIG-GND --- PASS
- 5.1.3 Test Conditions
  - 5.1.3.1 105 degrees C
  - 5.1.3.2 250 hours

5.2 Cyclic Humidity per EIA-364-31
- 5.2.1 DWV at 855 VAC, SIG-SIG and 600 VAC SIG-GND --- PASS
- 5.2.2 Insulation Resistance >5000 Meg Ohms SIG-SIG and SIG-GND --- PASS
- 5.2.3 Test Conditions
  - 5.2.3.1 Cyclic 25 degrees C to 65 degrees C for 240 hours, at 90% to 95% RH
  - 5.2.3.2 Time Condition "B" (240 hours) for Method III, excluding sub-cycle 7A and 7B

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6.0 HIGH FREQUENCY PERFORMANCE

6.1 Performance with Sinusoidal Signals

6.1.1 Readings based on using – 3dB insertion Loss point

6.1.2 For complete test information, click **HERE**

Series	**Configuration**
EEDP	Differential
Length	**Bandwidth**
6"	5.66 GHz
9"	5.33 GHz
12"	5.35 GHz
19.68"	2.85 GHz
29.53"	1.91 GHz
39.37"	1.15 GHz

For additional information, contact Samtec Signal Integrity Group
sig@samtec.com or 1-(800)-726-8329.

7.0 ASSEMBLY PRECAUTIONS

7.1 When laying out the printed wiring board, care should be taken to insure adequate clearance for the cable assembly housing. Failure to do so could result in interference with other component.