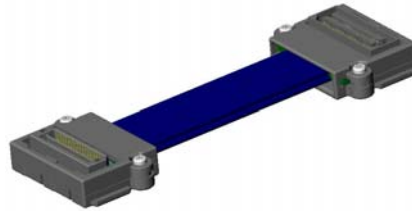


Series: EQDP 30 AWG Ribbon Twinax HS Cable Assembly, 0.8mm Pitch



1.0 SCOPE

- 1.1 This specification covers performance, tests, and quality requirements for the Samtec EQDP Twinax High Speed Cable Assembly 0.8mm pitch

2.0 ELECTRICAL

- 2.1 Dielectric Withstanding Voltage, DWV, per EIA-364-20
 - 2.1.1 825 VAC
- 2.2 Insulation Resistance, IR, per EIA-364-21
 - 2.2.1 > 1,000 Meg Ohms
- 2.3 Low Level Contact Resistance, LLCR, per EIA-364--23
 - 2.3.1 17.4 milli Ohms Average - Contact System
 - 2.3.2 2.4 milli Ohms Average - GND System
- 2.4 Current Carrying Capacity for a 30°C temp rise, CCC, per EIA-364-70
 - 2.4.1 0.5 A for a 10 degree C -Rise

3.0 MATERIALS

- 3.1 Insulator Material
 - 3.1.1 LCP
- 3.2 Contact
 - 3.2.1 Copper Alloy with Gold over 50 microlnches Nickel

4.0 MECHANICAL

- 4.1 Operational Temperature
 - 4.1.1 -25 degrees C to 80 degrees C
- 4.2 Normal Force at 0.006 inches deflection, per EIA-364-04
 - 4.2.1 90 gr.
- 4.3 Cable Flexing Life with 8 oz. load on end of cable, Loss of SIG or GND continuity
 - 4.3.1 35 degree mode: 1253, SIG and 25,000, GND
 - 4.3.2 90 degree mode: 1553, SIG and 25,000, GND
- 4.4 Cable /Connector Pull, Loss of SIG or GND continuity
 - 4.4.1 0 degree in-line pull: 210 lbs.
 - 4.4.2 90 degree pull: 200 lbs

Series: EQDP 30 AWG Ribbon Twinax HS Cable Assembly, 0.8mm Pitch**5.0 ENVIRONMENTAL**5.1 Thermal Aging per EIA-364-17

- 5.1.1 DWV at 1200 VAC --- PASS
- 5.1.2 Insulation Resistance >1000 Meg Ohms --- 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 1200 VAC --- PASS
- 5.2.2 Insulation Resistance >1000 Meg Ohms --- 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

6.0 HIGH FREQUENCY PERFORMANCE6.1 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
EQDP	Differential
Length	Bandwidth
6"	4.48 GHz
9"	4.46 GHz
12"	4.11 GHz
19.68"	3.58 GHz
29.53"	2.32 GHz
39.37"	1.32 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 components.