

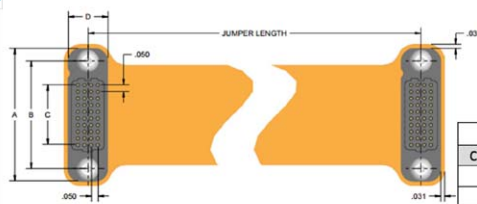


## VSX – Flexible Circuit Jumper Assembly

**Pitch: 1.27 mm**

VSX flexible circuit jumpers come in standard lengths and wiring configurations, but custom specifications can be requested.

### DIMENSIONS



FLEX JUMPER DIMENSIONS					
Columns	A	B	C	Rows	D
10	1.000	0.813	0.450	4	0.300
20	1.500	1.313	0.950	5	0.350
30	2.000	1.813	1.450	6	0.400
40	2.500	2.313	1.950	8	0.500
50	3.000	2.813	2.450	10	0.700

### Sample Part Number Format: VSX-04-10-50-01G-03A-030



**SERIES**  
 Flexible Circuit Jumper  
 1.27 mm



**ROWS**  
 04 – 4 Rows  
 05 – 5 Rows  
 06 – 6 Rows  
 08 – 8 Rows  
 10 – 10 Rows



**COLUMNS**  
 10 – 10 Columns  
 20 – 20 Columns  
 30 – 30 Columns  
 40 – 40 Columns  
 50 – 50 Columns



**CONTACT PLATING**  
 50 – 50 μ<sup>2</sup> Au



**CONNECTOR 1**  
 01A – Male; no hardware  
 03A – Female  
 01G – Male; guide pin  
 03G – Female; guide socket



**CONNECTOR 2**  
 01A – Male; no hardware  
 03A – Female  
 01G – Male; guide pin  
 03G – Female; guide socket



**LENGTH\***  
 015 – 0.15 M  
 030 – 0.30 M  
 045 – 0.45 M

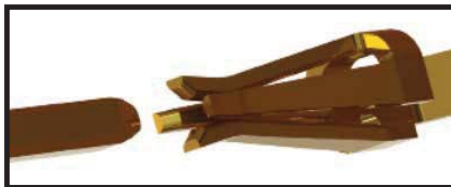
### NOTES

\* Other cable lengths and configurations available.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

### FEATURES

verSI connectors feature low mating force/high-reliability contact system with four points of contact. The open-pin field design allows for flexibility in termination schemes. Single-ended, differential pair, power, and ground are all available in one connector design.



### MATERIALS and FINISHES

Socket Contact: ..... BeCu per ASTM B194  
 Pin Contacts: ..... Phos bronze per ASTM B103 or per BeCu ASTM B768 (press-fit contact)  
 Contact Finish: ..... Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I  
 Molded Insulators: ..... Glass-filled liquid crystal polymer (LCP) per ASTM D5138  
 Hardware: ..... Stainless steel per ASTM A582/A582M or ASTM A320; passivated per ASTM A967, SAE AMS-QQ-P-35

NOTE: AirBorn can manufacture other configurations to your exact specifications.

### SI DATA – Simulated (Connectors Only)

1	Diff. Insertion Loss	22 GHz @ -2 db	
2	Diff. Return Loss	7.5 GHz @ -20 db	17.5 GHz @ -10 db
3	Diff. Impedance	100 ohm ±10%	
4	Diff. Skew	< 2 psec	

### PERFORMANCE

Contact Rating: ..... 2 amperes maximum  
 Operating Temperature: ..... -55° C to 125° C  
 Min. Contact Wipe: ..... 1.27 mm (0.050")  
 Contact Normal Force: ..... .35–40 grams  
 Max Recommended Voltage: ..... 200 V, RMS, 60 Hz  
 Insulation Resistance: ..... 5,000 megaohms minimum @ 500 VDC  
 Durability: ..... 2500 connector mating cycles  
 Sinusoidal Vibration: ..... 20 g (EIA-364-28, condition IV)  
 Shock: ..... 50 g (EIA-364-27, condition E)