

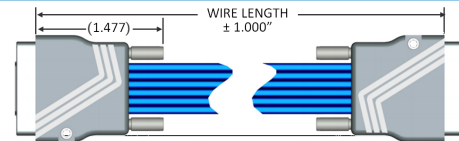
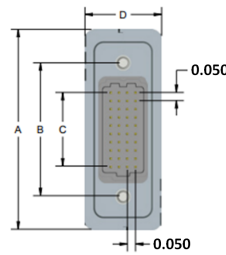
versI™

VRD – Differential Pair Twinax Cable Assembly

Pitch: 1.27 mm

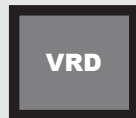
VRD cable assemblies are designed for twinax applications. These cable assemblies come in standard lengths but custom lengths and configurations can also be requested. Ruggedized hoods are standard

DIMENSIONS



Columns	A	B	C	Rows	D
10	1.222	0.813	0.450	4	0.470
20	1.722	1.313	0.950	5	0.520
30	2.222	1.813	1.450	6	0.570
40	2.722	2.313	1.950	8	0.670
50	3.222	2.813	2.450	10	0.770

Sample Part Number Format: VRD-04-10-50-01-03-060



SERIES
 Differential Pair
 Twinax Cable
 Assembly
 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" Au



CONNECTOR 1
 01G – Male with guide pins
 01N – Male with threaded nut #2-56
 01L – Male with locking screw #2-56
 01J – Male with jackscrew #2-56
 03G – Female with guide sockets
 03N – Female with threaded nut #2-56
 03L – Female with locking screw #2-56
 03J – Female with jackscrew #2-56



CONNECTOR 2
 000 – Flying Leads
 01G – Male with guide pins
 01N – Male with threaded nut #2-56
 01L – Male with locking screw #2-56
 01J – Male with jackscrew #2-56
 03G – Female with guide sockets
 03N – Female with threaded nut #2-56
 03L – Female with locking screw #2-56
 03J – Female with jackscrew #2-56



LENGTH*
 030 – 0.30 M
 040 – 0.40 M
 050 – 0.50 M
 060 – 0.60 M
 070 – 0.70 M
 080 – 0.80 M
 090 – 0.90 M
 100 – 1.00 M
 150 – 1.50 M
 200 – 2.00 M
 300 – 3.00 M

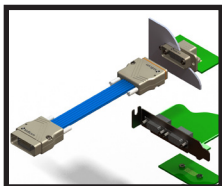
NOTES

* Other cable lengths and configurations available.
 AirBorn can manufacture other configurations to your exact specifications.

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

Shell: Aluminum alloy 6061-T6 per QQ-A-250/11 or 6061-T6511 per QQ-A-200/8
 Finish: Electroless nickel per SAE AMS-C-26074, Grade B, Class 3
 Socket Contact: BeCu per ASTM B194
 Pin Contacts: Phos bronze per ASTM B103
 Contact Finish: Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I
 Wire: 30 AWG*, 19/42 silver-plated copper
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Hardware: Stainless steel per ASTM A582/A582M or ASTM A320; passivated per SAE AMS-2700
 Embedment: Frey Eng. Co. insulating compound CF3003-80 and L-II-49 or equiv.

SI DATA – Simulated (Connectors Only)

1	Diff. Insertion Loss	-0.25 dB @ 5 GHz	-3dB @ 16 GHz
2	Diff. Return Loss	-20 dB @ 5 GHz	-6 dB @ 14 GHz
3	Diff. Impedance	100 ohm ±10% @ 50 ps rise time	
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)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[AirBorn:](#)

[VRD-04-30-50-01L-000-050](#) [VRD-10-10-50-03L-01L-030](#)