

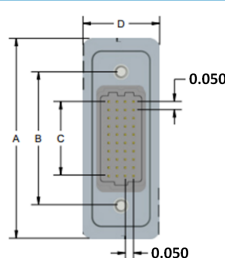


VRD – Differential Pair Twinax Cable Assembly

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



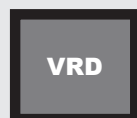
WIRE LENGTH $\pm 1.000"$

(1.477)

CABLE ASSEMBLY 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

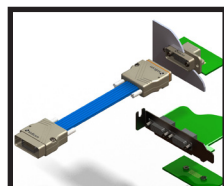
* Other cable lengths and configurations available.

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-I-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 $\pm 10\%$ @ 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)