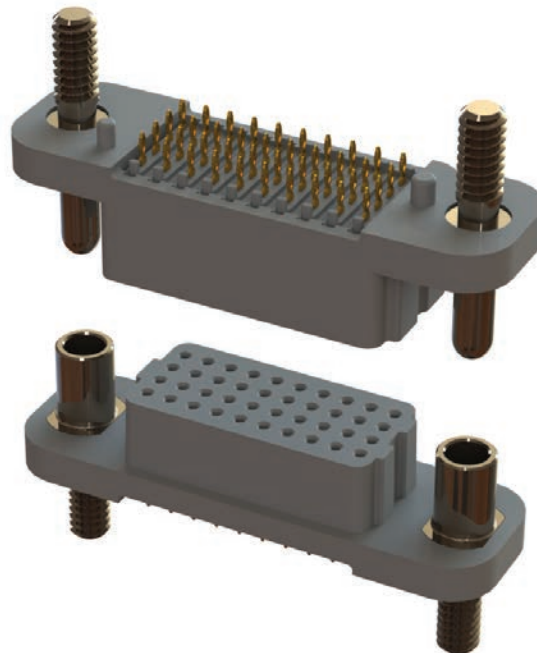




verSI™

The AirBorn verSI (versatile connectors with high-speed signal integrity) open-pin field product line is designed to meet the requirements for high-speed/high-density/signal integrity 100 Ω and 85 Ω differential serial bus applications while still delivering the reliability customers have come to expect from AirBorn.





VSM – Vertical (Male)

Pitch: 1.27 mm

VSM signal-integrity connectors are used in vertical, PCB-mount applications where a male interface is required. Termination styles include press-fit, paste-in-hole, plated thru-hole, and surface-mount.

DIMENSIONS

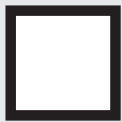
COLUMNS	A	B	C	ROWS	D
10	1.000	0.813	0.450	4	0.300
20	1.500	1.313	0.950	5	0.350
30	2.000	1.813	1.450	6	0.400
40	2.500	2.313	1.950	8	0.500
50	3.000	2.813	2.450	10	0.700

SPACING OPTION CODES	E		F		SPACING OPTIONS		
	inches	mm	inches	mm	E	F	F
-080	0.235	5.96	0.290	7.36	8 mm	0.235	0.290
-100	0.314	7.79	0.369	9.37	10 mm	0.314	0.369
-120	0.392	9.95	0.447	11.35	12 mm	0.392	0.447
-160	0.550	13.96	0.605	15.36	16 mm	0.550	0.605
-200	0.707	17.94	0.762	19.34	20 mm	0.707	0.762
-250	0.904	22.94	0.959	24.34	25 mm	0.904	0.959

Sample Part Number Format: VSM-04-10-080-50-02-G



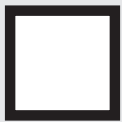
SERIES
 Vertical (Male)
 1.27 mm



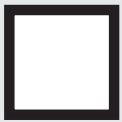
ROWS
 04 – 4 Rows
 05 – 5 Rows
 06 – 6 Rows
 08 – 8 Rows
 10 – 10 Rows



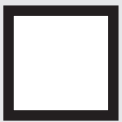
COLUMNS
 10 – 10 Columns
 20 – 20 Columns
 30 – 30 Columns
 40 – 40 Columns
 50 – 50 Columns



BOARD SPACING*
 080 – 8 mm
 100 – 10 mm
 120 – 12 mm
 160 – 16 mm
 200 – 20 mm
 250 – 25 mm



CONTACT PLATING
 50 – 50 μ" Au



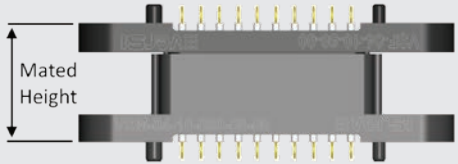
TERMINATION
 00 – Press-fit
 01 – Paste-In-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide pin¹
 G1 – Guide pin²
 J – #2-56 jackscrew¹
 J1 – #2-56 jackscrew²
 L – #2-56 locking screw¹
 L1 – #2-56 locking screw²
 N – #2-56 locking jacknut¹
 N1 – #2-56 locking jacknut²

BOARD SPACING		MATED HEIGHT (in)
VALUE	CODE	NOMINAL
8 mm	080	0.315
10 mm	100	0.394
12 mm	120	0.473
16 mm	160	0.630
20 mm	200	0.788
25 mm	250	0.985

Max allowable separation between mating faces is 0.035 inches.



NOTES

- Connector potting is standard.
- * Consult factory for additional board spacing options.
- ¹ Used for PC board thickness up to 0.125"
- ² Used for PC board thickness 0.125" up to 0.250"

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

FEATURES

verSI board-mount 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. Guide hardware is optional.



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	

MATERIALS and FINISHES

- Pin Contacts: Phos bronze per ASTM B103 or BeCu per ASTM B768 (press-fit contact)
- Contact Finish: Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I, 50 μIN min
- Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
- Potting Compound: Frey Eng. Co. insulating compound CF3003-80
- Hardware (except washers): Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320 passivated per SAE AMS-2700, Method 1, Type 2
- Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)

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

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)

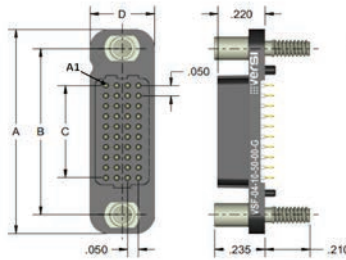


VSF – Vertical (Female)

Pitch: 1.27 mm

VSF signal-integrity connectors are used in vertical, PCB-mount applications where a female interface is required. Termination styles include press-fit, paste-in-hole, plated thru-hole, and surface-mount.

DIMENSIONS



VSF 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	0.600

Sample Part Number Format: VSF-04-10-50-02



SERIES
 Vertical
 (Female)
 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



TERMINATION
 00 – Press-fit
 01 – Paste-In-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide socket (boards up to .125" thk)
 G1 – Guide socket (boards .125"-.250" thk)
 J – #2-56 Jackscrew (boards up to .125" thk)
 J1 – #2-56 Jackscrew (boards .125"-.250" thk)
 L – #2-56 Locking screw (boards up to .125" thk)
 L1 – #2-56 Locking screw (boards .125"-.250" thk)
 N – #2-56 Locking jacknut (boards up to .125" thk)
 N1 – #2-56 Locking jacknut (boards .125"-.250" thk)

NOTES

Connector potting is standard.

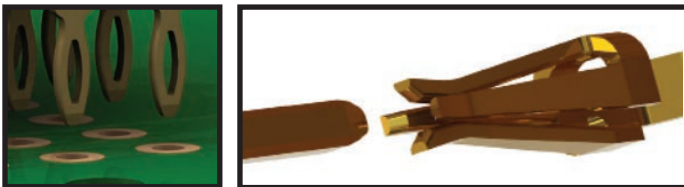
¹ Used for PC board thickness up to 0.125"

² Used for PC board thickness 0.125" up to 0.250"

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

FEATURES

verSI board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Socket Contacts: BeCu per ASTM B194
 Contact Finish: Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I, 50 μIN min
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320 passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)

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

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)



VRM – Vertical Rugged (Male)

Pitch: 1.27 mm

VRM signal-integrity connectors are ruggedized versions of the standard VSM male connectors. These connectors can be used in extreme environmental conditions while maintaining high reliability and continuous performance.

DIMENSIONS

VRM DIMENSIONS					
Columns	A	B	C	Rows	D
10	1.125	0.813	0.450	4	0.425
20	1.625	1.313	0.950	5	0.475
30	2.125	1.813	1.450	6	0.525
40	2.625	2.313	1.950	8	0.625
50	3.125	2.813	2.450	10	0.725

BOARD SPACING		
	E	F
8 mm	0.239	n/a
10 mm	0.319	0.374
12 mm	0.397	0.452
16 mm	0.555	0.610
20 mm	0.712	0.767
25 mm	0.909	0.964

Sample Part Number Format: VRM-04-10-100-50-02-G



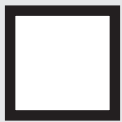
SERIES
 Vertical Rugged (Male)
 1.27 mm



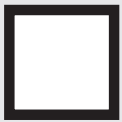
ROWS
 04 – 4 Rows
 05 – 5 Rows
 06 – 6 Rows
 08 – 8 Rows
 10 – 10 Rows



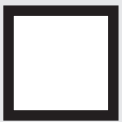
COLUMNS
 10 – 10 Columns
 20 – 20 Columns
 30 – 30 Columns
 40 – 40 Columns
 50 – 50 Columns



BOARD SPACING*
 080 – 8 mm
 100 – 10 mm
 120 – 12 mm
 160 – 16 mm
 200 – 20 mm
 250 – 25 mm



CONTACT PLATING
 50 – 50 μ" Au



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide pin**1
 G1 – Guide pin**2
 J – #2-56 Jackscrew**1
 J1 – #2-56 Jackscrew**2
 L – #2-56 Locking screw**1
 L1 – #2-56 Locking screw**2
 N – #2-56 Locking jacknut**1
 N1 – #2-56 Locking jacknut**2

NOTES

Connector potting is standard.

* Consult factory for additional board spacing options.

** Not available with 8 mm board spacing

¹ Used for PC board thickness up to 0.125"

² Used for PC board thickness 0.125" up to 0.250"

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

FEATURES

verSI board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Shell: Aluminum alloy 6061-T6 per SAE AMS 4027 or 6061-T6511 per QQ-A-200/8
 Finish: Electroless nickel per SAE AMS 2404, Class 3; 500 μin min
 Pin Contacts: Phos bronze per ASTM B103 or BeCu per ASTM B768 (press-fit contact)
 Contact Finish: Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I, 50 μin min
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)

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

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)

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	

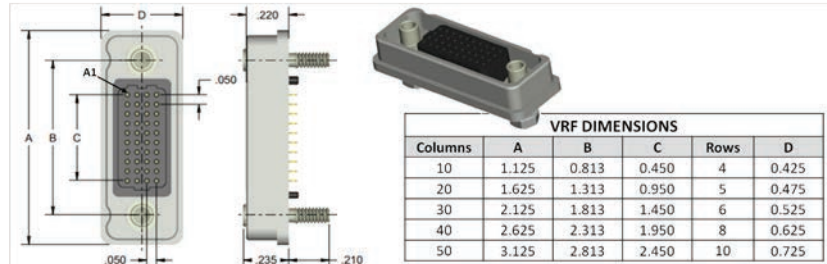


VRF – Vertical Rugged

Pitch: 1.27 mm

VRF signal-integrity connectors are ruggedized versions of the standard VSF female connectors. These connectors can be used in extreme environmental conditions while maintaining high reliability and continuous performance.

DIMENSIONS



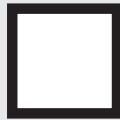
Sample Part Number Format: VRF-04-10-50-04-J



SERIES
 Vertical Rugged
 (Female)
 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



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide socket (boards up to .125" thk)
 G1 – Guide socket (boards .125"- .250" thk)
 J – #2-56 Jackscrew (boards up to .125" thk)
 J1 – #2-56 Jackscrew (boards .125"- .250" thk)
 L – #2-56 Locking screw (boards up to .125" thk)
 L1 – #2-56 Locking screw (boards .125"- .250" thk)
 N – #2-56 Locking jacknut (boards up to .125" thk)
 N1 – #2-56 Locking jacknut (boards .125"- .250" thk)
 GE – Guide pin/EMI gasket (boards up to .125" thk)
 G1E – Guide pin/EMI gasket (boards .125"- .250" thk)
 NE – #2-56 Locking jacknut/EMI gasket (boards up to .125" thk)
 N1E – #2-56 Locking jacknut/EMI gasket (boards .125"- .250" thk)

NOTES

Connector potting is standard.

¹ Used for PC board thickness up to 0.125"

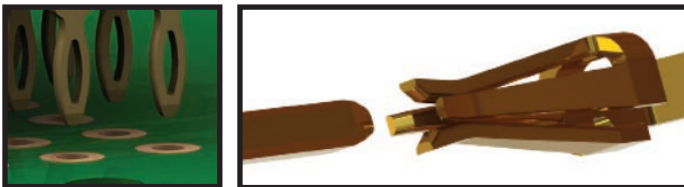
² Used for PC board thickness 0.125" up to 0.250"

NOTE: 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 board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Shell: Aluminum alloy 6061-T6 per SAE AMS 4027 or 6061-T6511 per QQ-A-200/8
 Finish: Electroless nickel per SAE AMS-2404, Class 3; 500 μIN min
 Socket Contact: BeCu per ASTM B194
 Contact Finish: Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I, 50 μIN min
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)
 EMI Gasket (GE, G1E, NE and N1E options only): Conductive Elastomer per MIL-DTL-83528 Type D

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)

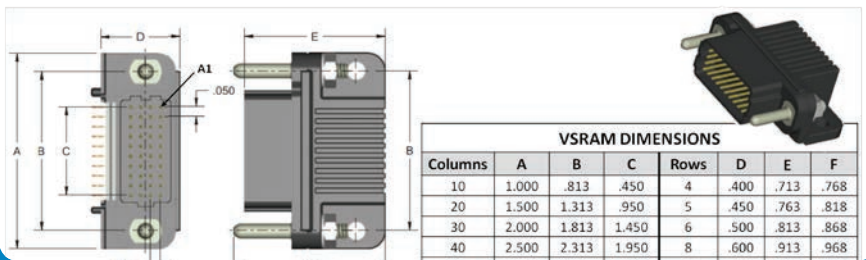


VSRAM – Right Angle (Male)

Pitch: 1.27 mm

VSRAM signal-integrity connectors are used in right angle, PCB-mount applications where a male interface is required. Termination styles include press-fit, paste-in-hole or plated thru-hole.

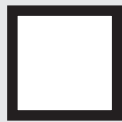
DIMENSIONS



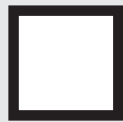
Sample Part Number Format: VSRAM-04-10-50-02-G



SERIES
 Right Angle (Male)
 1.27 mm



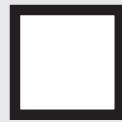
ROWS
 04 – 4 Rows
 05 – 5 Rows
 06 – 6 Rows
 08 – 8 Rows
 10 – 10 Rows



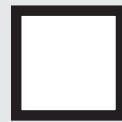
COLUMNS
 10 – 10 Columns
 20 – 20 Columns
 30 – 30 Columns
 40 – 40 Columns
 50 – 50 Columns



CONTACT PLATING
 50 – 50 μ" Au



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide pin
 N – #2-56 Locking jacknut

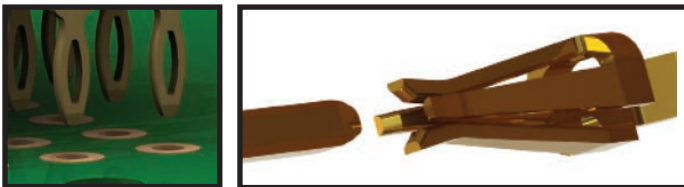
NOTES

Connector potting is standard.
 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 board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Pin Contacts (Mating Face): Phos bronze per ASTM B103
 Pin Contacts (Termination): BeCu per ASTM B768 (press-fit contact) or brass alloy per ASTM B36 (PIH or PTH)
 Contact Finish (Mating Face): Localized gold finish per ASTM B488, Type II, Code C over nickel per ASTM B689 Type I, 50 μN min
 Contact Finish (Termination): Localized gold finish per ASTM B488, Type II, Code C, 50 μN min over nickel per ASTM B689 Type I, 50 μN min (Press Fit) or Localized Gold per ASTM B488 Type I, Code A or C, 10-25 μN over nickel per ASTM B689 Type I, 50 μN min (PIH or PTH)
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M, or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)

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)

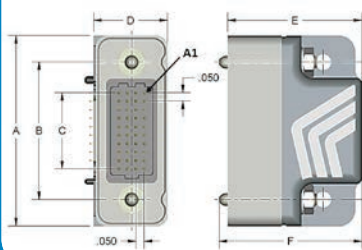


VRRAM – Rugged Right Angle (Male)

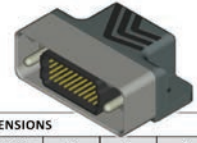
Pitch: 1.27 mm

VRRAM signal-integrity connectors are ruggedized versions of the standard VSRAM male connectors. These connectors can be used in extreme environmental conditions while maintaining high reliability and continuous performance.

DIMENSIONS



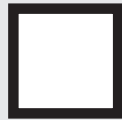
VRRAM DIMENSIONS							
Columns	A	B	C	Rows	D	E	F
10	1.125	0.813	0.450	4	0.438	0.798	0.847
20	1.625	1.313	0.950	5	0.488	0.848	0.897
30	2.125	1.813	1.450	6	0.538	0.898	0.947
40	2.625	2.313	1.950	8	0.638	0.998	1.047
50	3.125	2.813	2.450	10	0.738	1.098	1.147



Sample Part Number Format: VRRAM-04-10-50-02-N



SERIES
 Rugged
 Right Angle
 (Male)
 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



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide pin
 N – #2-56 Locking jacknut

NOTES

Connector potting is standard.
 AirBorn can manufacture other configurations to your exact specifications.

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

FEATURES

verSI board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Shell: Aluminum alloy 6061-T6 per SAE AMS 4027 or 6061-T6511 per QQ-A-200/8
 Finish: Electroless nickel per SAE AMS-2404, Class 3, 500 μN min
 Pin Contacts (Mating Face): Phos bronze per ASTM B103
 Pin Contacts (Termination): BeCu per ASTM B768 (press-fit contact) or brass alloy per ASTM B36 (PIH or PTH)
 Contact Finish (Mating Face): Localized gold finish per ASTM B488, Type II, Code C, over nickel per ASTM B689 Type I 50 μN min
 Contact Finish (Termination Face): Localized gold finish per ASTM B488, Type II, Code C, 50 μN min over nickel per ASTM B689 Type I, 50 μN min (Press Fit) or Localized Gold per ASTM B488, Type 1, Code A or C, 10-25 μN over nickel per ASTM B689 Type I, 50 μN min (PIH or PTH)
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M, or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700).

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)

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	

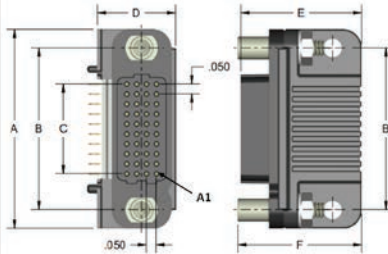


VSRAF – Right Angle (Female)

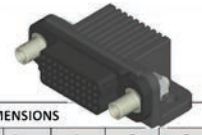
Pitch: 1.27 mm

VSRAF signal-integrity connectors are used in right angle, PCB-mount applications where a female interface is required. Termination styles include press-fit, paste-in-hole or plated thru-hole.

DIMENSIONS



VSRAF DIMENSIONS							
Columns	A	B	C	Rows	D	E	F
10	1.000	.813	.450	4	.400	.619	.634
20	1.500	1.313	.950	5	.450	.669	.684
30	2.000	1.813	1.450	6	.500	.719	.734
40	2.500	2.313	1.950	8	.550	.769	.784
50	3.000	2.813	2.450	10	.600	.819	.834



Sample Part Number Format: VSRAF-04-10-50-02-N



SERIES
 Right Angle
 (Female)
 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



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 G – Guide socket
 N – #2-56 Locking jacknut

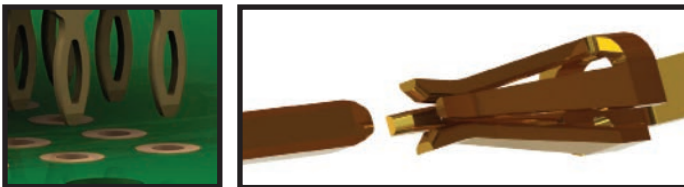
NOTES

Connector potting is standard.
 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 board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Socket Contact (Mating Face): BeCu per ASTM B194
 Socket Contact (Termination): Brass alloy per ASTM B36 (PIH or PTH) or BeCu per ASTM B768 (press-fit contact)
 Contact Finish (Mating Face): Localized gold finish per ASTM B488, Type II, Code C over nickel per ASTM B689 Type I, 50 μN min
 Contact Finish (Termination): .. Localized gold finish per ASTM B488, Type II, Code C, 50 μN min over nickel per ASTM B689 Type I, 50 μN min (Press Fit) or localized gold per ASTM B488, Type I, Code A or C, 10-25 μN over nickel per ASTM B689 Type I, 50 μN min (PIH or PTH)
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co. insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700).

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)

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	

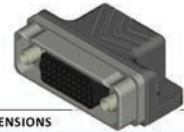
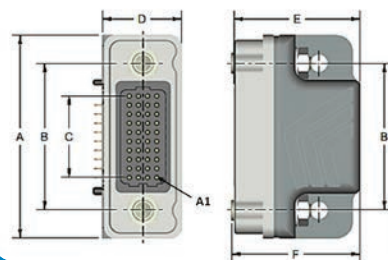


VRRAF – Rugged Right Angle (Female)

Pitch: 1.27 mm

VRRAM signal-integrity connectors are ruggedized versions of the standard VSRAF female connectors. These connectors can be used in extreme environmental conditions while maintaining high reliability and continuous performance.

DIMENSIONS



VRRAF DIMENSIONS							
Columns	A	B	C	Rows	D	E	F
10	1.125	0.813	0.450	4	0.438	0.698	0.714
20	1.625	1.313	0.950	5	0.488	0.748	0.764
30	2.125	1.813	1.450	6	0.538	0.798	0.814
40	2.625	2.313	1.950	8	0.638	0.898	0.914
50	3.125	2.813	2.450	10	0.738	0.998	1.014

Sample Part Number Format: VRRAF-04-10-50-00-G



SERIES
 Rugged Right Angle (Female)
 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



TERMINATION
 00 – Press-fit
 01 – Paste-in-hole
 02 – PTH 0.078"
 03 – PTH 0.109"
 04 – PTH 0.140"
 05 – PTH 0.156"
 06 – PTH 0.172"



OPTIONS
 Blank – No options
 E – EMI gasket
 G – Guide socket
 N – #2-56 Locking jacknut
 GE – Guide pin/EMI gasket
 NE – #2-56 Locking jacknut/EMI gasket

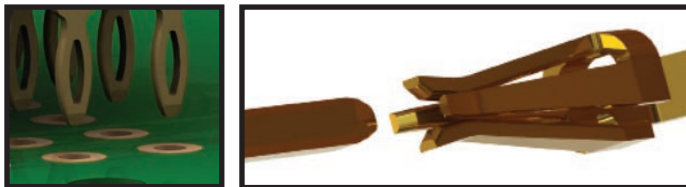
NOTES

Connector potting is standard.
 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 board-mount 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. Guide hardware is optional.



MATERIALS and FINISHES

Shell: Aluminum alloy 6061-T6 per SAE AMS 4027 or 6061-T6511 per QQ-A-200/8
 Finish: Electroless nickel per AMS-2404, Class 3; 500 μIN min
 Socket Contact (Mating Face): BeCu per ASTM B194
 Socket Contact (Termination): Brass alloy per ASTM B36 (PIH or PTH) or BeCu per ASTM B768 (press-fit contact)
 Contact Finish (Mating Face): Localized gold finish per ASTM B488, Type II, Code C over nickel per ASTM B689, Type I, 50 μIN min
 Contact Finish (Termination): Localized gold finish per ASTM B488, Type II, Code C, 50 μIN min over nickel per ASTM B689, Type I, 50 μIN min (Press Fit) or localized gold per ASTM B488, Type I, Code A or C, 10-25 μIN over nickel per ASTM B689 Type I, 50 μIN min (PIH or PTH)
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Potting Compound: Frey Eng. Co insulating compound CF3003-80
 Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
 Washers: Stainless steel & passivated per NASM35333
 EMI Gasket (GE and NE options only): Conductive Elastomer per MIL-DTL-83528 Type D

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)

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	

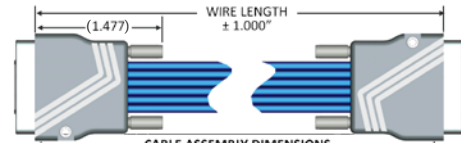
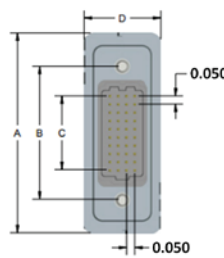


VRD – Differential Pair Twinax Cable Assembly

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



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

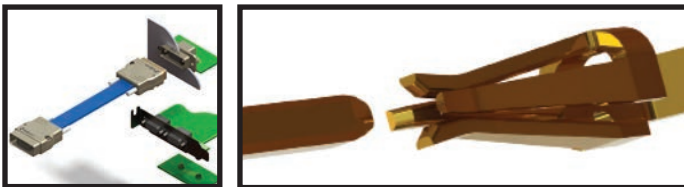
NOTES

* Other cable lengths and configurations available.

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.

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

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)

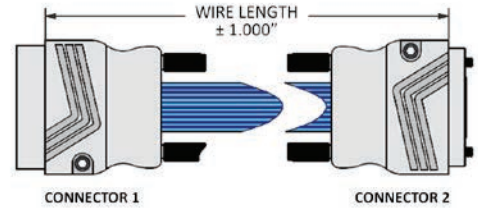
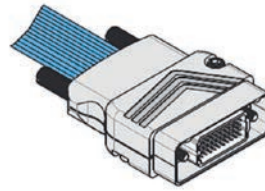


VRW – Discrete Wire Cable Assembly with Internal Solder Connection

Pitch: 1.27 mm

VRW cable assemblies come in standard wire and lengths but custom wire and length options are available. Ruggedized shells are standard.

DIMENSIONS



See next page for detailed drawings

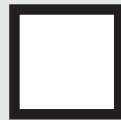
Sample Part Number Format: VRW-04-10-50-03J-01J-A030



SERIES
 Discrete Wire 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



WIRE CODE
 XXXX
 (Four characters are required -- see blue columns in the chart below.)

NOTES

All VRW part numbers are non-RoHS-compliant.

Wire colors per M83513 are ten (10) solid colors, repeating.

Per M83513, corrosion has been experienced on connectors that are pre-wired with 22759/33 and stored in sealed environments. Caution should be exercised when using this wire.

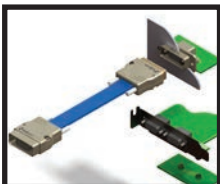
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

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-2404, Class 3; 500 μ", min.
 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
 Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
 Embedment: Frey Eng. Co. insulating compound CF3003-80 and L-II-49 or equiv.
 Hardware: Stainless steel per ASTM A582/A582M or ASTM A320; passivated per SAE AMS-2700



WIRE CODES

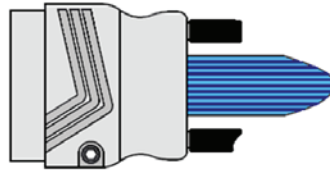
COLOR (per 83513) and GAGE		LENGTH		
			M	FT
NEMA HP3 EXBEB (24 AWG) – Multicolored	A			
	White	B	010	0.10 0.328
NEMA HP3 EXBDB (26 AWG) – Multicolored	C		020	0.20 0.656
	White	D	030	0.30 0.984
NEMA HP3 EXBCB (28 AWG) – Multicolored	E		040	0.40 1.312
	White	F	050	0.50 1.640
NEMA HP3 EXBBB (30 AWG) – Multicolored	G		060	0.60 1.969
	White	H	070	0.70 2.297
SAE AS22759/33-24 (AWG) – Multicolored	J		080	0.80 2.625
	White	K	090	0.90 2.953
SAE AS22759/33-26 (AWG) – Multicolored	L		100	1.00 3.281
	White	M	150	1.50 4.921
SAE AS22759/33-28 (AWG) – Multicolored	N		200	2.00 6.562
	White	P	300	3.00 9.843
SAE AS22759/33-30 (AWG) – Multicolored	R			
	White	S		

AirBorn can manufacture special configurations to your exact specifications.

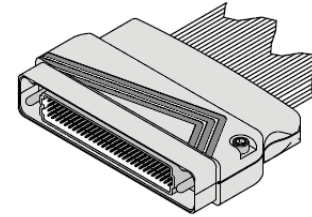


VRW DIMENSIONS

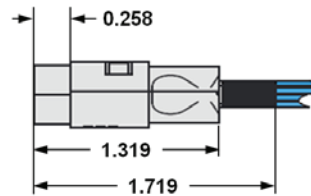
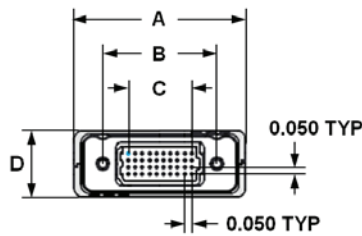
Male (Connector 1)



(Dimensional drawings shown with turning hardware)



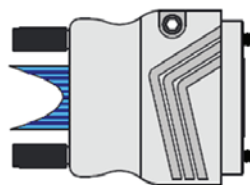
(Connector with guide pin hardware)



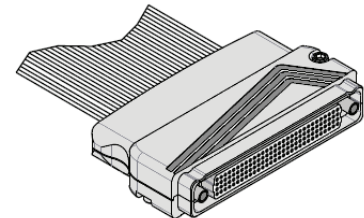
Columns	A	B	C	Rows	D
10	1.222	0.813	0.450	4	0.470
20	1.722	1.313	0.950	5	0.520
30	2.222	1.813	1.450	6	0.570
40	2.722	2.313	1.950	8	0.670
50	3.222	2.813	2.450	10	0.770

Tolerances (unless otherwise specified): ± 0.010 "

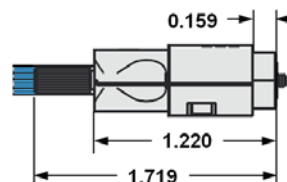
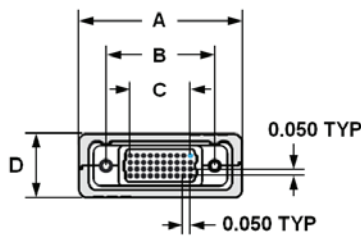
Female (Connector 2)



(Dimensional drawings shown with turning hardware)



(Connector with guide socket hardware)



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VRW PINOUTS

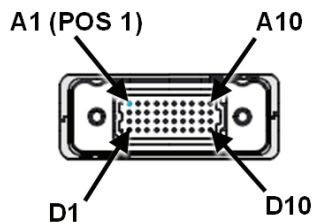
1-TO-1 WIRE CHART FOR JUMPER ASSEMBLIES

(Table illustrates connections for a 4-row, 10-column connector)

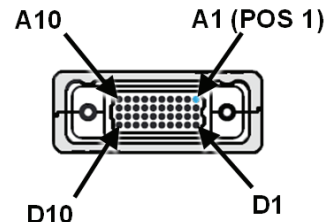
Connector 1	Connector 2	Connector 1	Connector 2	Connector 1	Connector 2	Connector 1	Connector 2
A1 — BLK — A1	B1 — BLK — B1	C1 — BLK — C1	D1 — BLK — D1	A2 — BRN — A2	B2 — BRN — B2	C2 — BRN — C2	D2 — BRN — D2
A3 — RED — A3	B3 — RED — B3	C3 — RED — C3	D3 — RED — D3	A4 — ORN — A4	B4 — ORN — B4	C4 — ORN — C4	D4 — ORN — D4
A5 — YEL — A5	B5 — YEL — B5	C5 — YEL — C5	D5 — YEL — D5	A6 — GRN — A6	B6 — GRN — B6	C6 — GRN — C6	D6 — GRN — D6
A7 — BLU — A7	B7 — BLU — B7	C7 — BLU — C7	D7 — BLU — D7	A8 — VIO — A8	B8 — VIO — B8	C8 — VIO — C8	D8 — VIO — D8
A9 — GRY — A9	B9 — GRY — B9	C9 — GRY — C9	D9 — GRY — D9	A10 — WHT — A10	B10 — WHT — B10	C10 — WHT — C10	D10 — WHT — D10

Wire colors per M83513 are ten (10) solid colors, repeating when there are more than 10 columns.

MALE



FEMALE



Sample part number:
 VRW-04-10-30-01G-03G-A030

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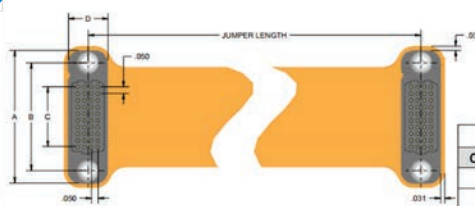


VSX – Flexible Circuit Jumper Assembly

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

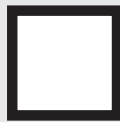
Sample Part Number Format: VSX-04-10-50-01G-03A-030



SERIES
 Flexible Circuit Jumper
 1.27 mm



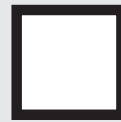
ROWS
 04 – 4 Rows
 05 – 5 Rows
 06 – 6 Rows
 08 – 8 Rows
 10 – 10 Rows



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



CONTACT PLATING
 50 – 50 μ² 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

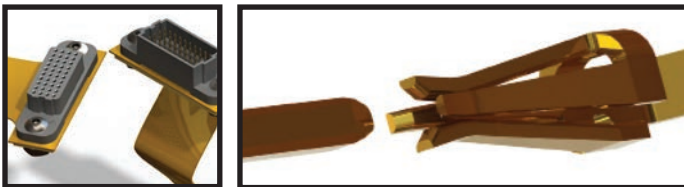
NOTES

* 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.



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	

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

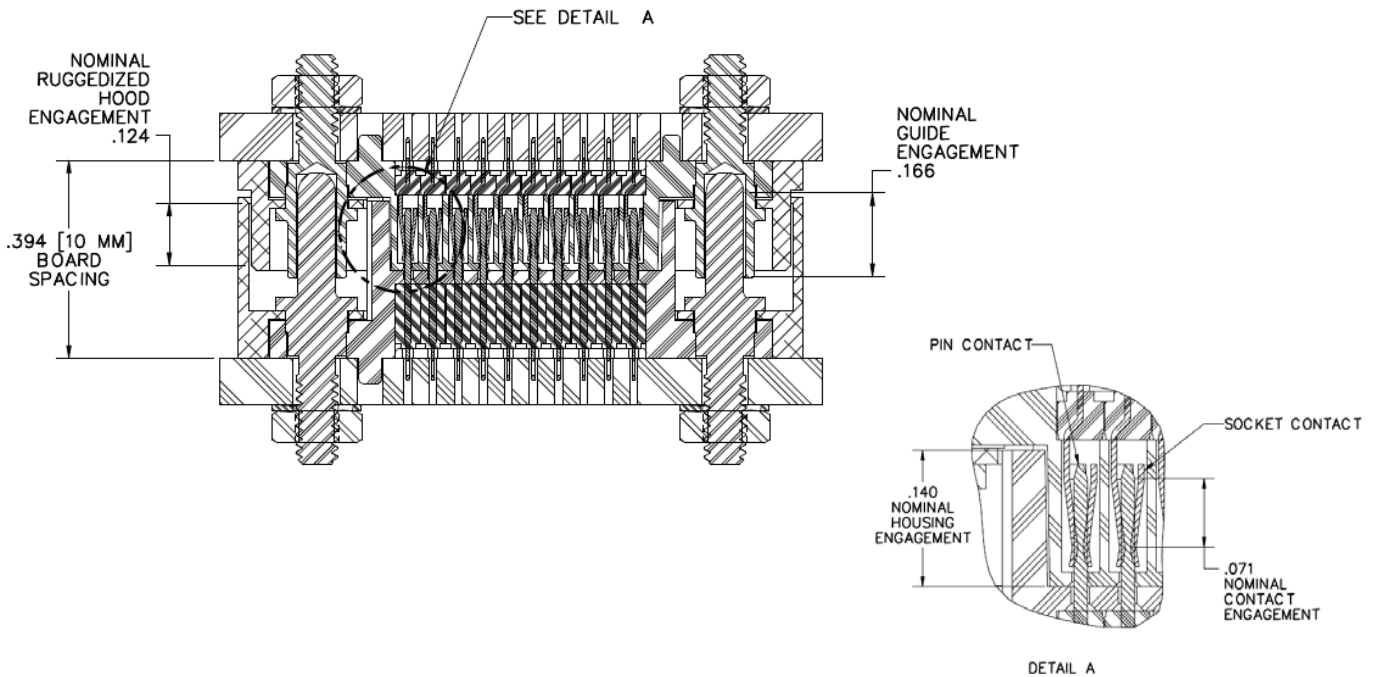
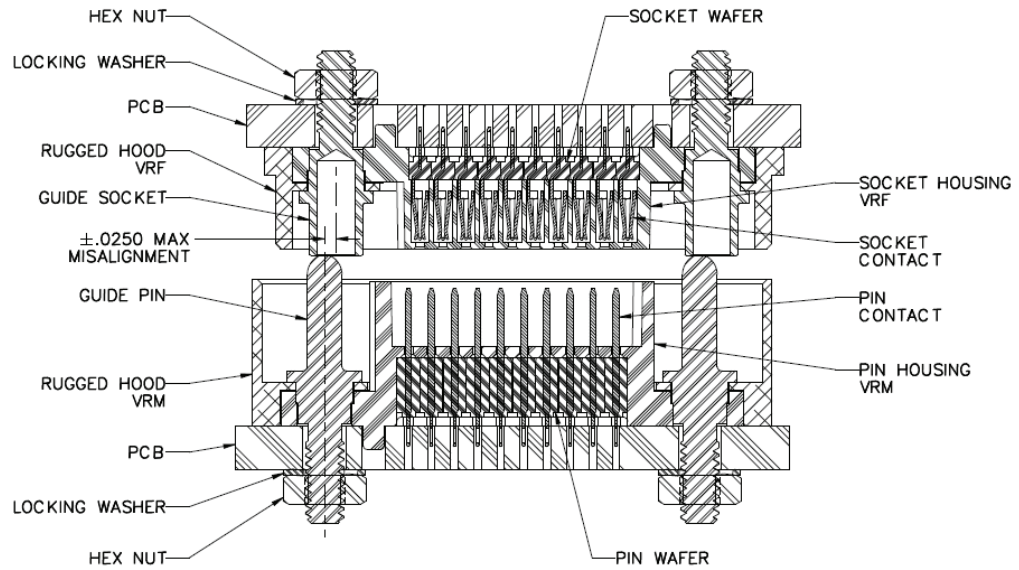
NOTE: AirBorn can manufacture other configurations to your exact specifications.

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)



verSI VERTICAL MISALIGNMENT AND ENGAGEMENT DIAGRAM



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