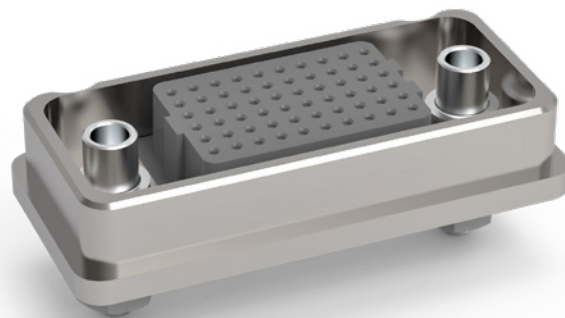


## VRF — Vertical Rugged Female

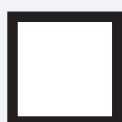
VRF signal-integrity connectors are ruggedized versions of the standard VSF female connectors. These connectors can be used in extreme environmental conditions while maintaining high reliability and continuous performance  
Pitch: 1.27 mm.



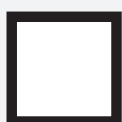
### Sample Part Number Format: VRF-04-10-50-50-04-G



**SERIES**  
Vertical Rugged  
(Female) 1.27 mm



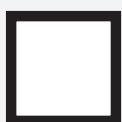
**ROWS**  
04 – 4 Rows  
05 – 5 Rows  
06 – 6 Rows  
08 – 8 Rows  
10 – 10 Rows



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



**CONTACT  
PLATING**  
50 – 50  $\mu$ " 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"  
10<sup>†</sup> – SMT - SN63PB37  
Solder Dipped  
11<sup>†</sup> – SMT - 42Sn/57.6Bi/0.4Ag  
lead free, solder dipped



**OPTIONS**  
Blank – No hardware<sup>‡</sup>  
G – Guide socket<sup>1</sup>  
G1 – Guide socket<sup>2</sup>  
J – Turning jackscrew<sup>1</sup>  
J1 – Turning jackscrew<sup>2</sup>  
L – Locking screw<sup>1</sup>  
L1 – Locking screw<sup>2</sup>  
N – Fixed jacknut<sup>1</sup>  
N1 – Fixed jacknut<sup>2</sup>  
E – No hardware/EMI gasket<sup>‡</sup>  
GE – Guide socket/EMI gasket<sup>1</sup>  
G1E – Guide socket/EMI gasket<sup>2</sup>  
JE – Turning jackscrew/EMI gasket<sup>1</sup>  
J1E – Turning jackscrew/EMI gasket<sup>2</sup>  
LE – Locking screw/EMI gasket<sup>1</sup>  
L1E – Locking screw/EMI gasket<sup>2</sup>  
NE – Fixed jacknut/EMI gasket<sup>1</sup>  
N1E – Fixed jacknut/EMI gasket<sup>2</sup>

### Notes:

See AirBorn spec ESL5001 for installation information.  
Connector potting is standard.

<sup>1</sup>Used for PC board thickness up to 0.125".

<sup>2</sup>Used for PC board thickness 0.125" up to 0.250".

<sup>†</sup>Surface Mount Termination only available on 4 Row vertical connectors.

<sup>‡</sup>No hardware supplied with blank hardware option connectors.

AirBorn can manufacture other configurations to your exact specifications.

RoHS Compliant (except for termination option 10); certificate of conformance available upon request with each shipment.

Please view document VRF-XX-XX-XX-XX-XX on [airborn.com](http://airborn.com) before part configuration for more product specification information.

NOTE: Please consult [airborn.com](http://airborn.com) to configure your part number and for the latest revision controlled drawing and technical data.

## Reliable Contact Every Time

VerSI connectors feature a low-mating-force, high-reliability contact system with four points-of-contact.

The open-pin field design allows flexibility in termination schemes. Single-ended, differential pair, power, and ground are all available in one connector design.

