

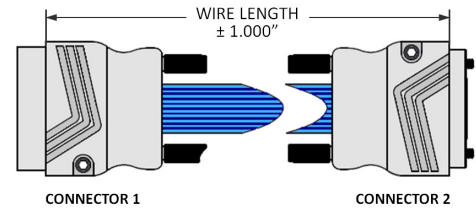
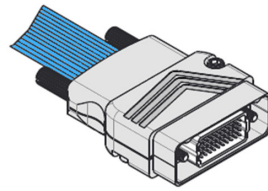


## VRW – Discrete Wire Cable Assembly with Internal Solder Connection

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



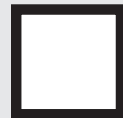
**SERIES**  
 Discrete Wire Cable Assembly  
 1.27 mm



**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.

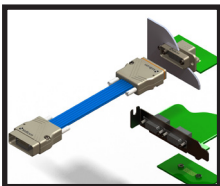
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

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

\*AirBorn can manufacture special configurations to your exact specifications.\*