

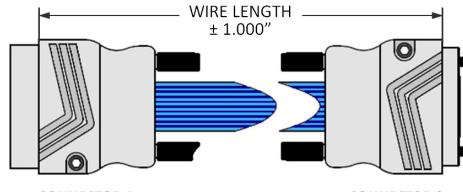
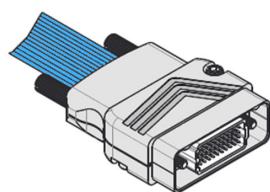


**VRW – Discrete Wire Cable Assembly with Internal Solder Connection**

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

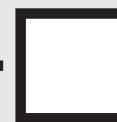
**Sample Part Number Format: VRW-04-10-50-03J-01J-A030**



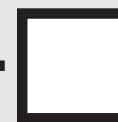
**SERIES**  
Discrete Wire  
Cable Assembly  
1.27 mm



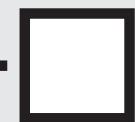
**ROWS**  
04 – 4 Rows  
05 – 5 Rows  
06 – 6 Rows  
08 – 8 Rows  
10 – 10 Rows



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



**CONTACT  
PLATING**  
50 – 50  $\mu$ " 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.

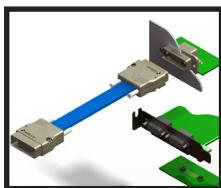
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

**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  $\mu$ , 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 B699 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		
NEMA HP3 EXBEB (24 AWG) – Multicolored	A		
White	M		
White	010	0.10	0.328
NEMA HP3 EXBDB (26 AWG) – Multicolored	B		
White	020	0.20	0.656
NEMA HP3 EXBCB (28 AWG) – Multicolored	C		
White	030	0.30	0.984
NEMA HP3 EXBBB (30 AWG) – Multicolored	D		
White	040	0.40	1.312
NEMA HP3 EXBBB (30 AWG) – Multicolored	E		
White	050	0.50	1.640
NEMA HP3 EXBBB (30 AWG) – Multicolored	F		
White	060	0.60	1.969
NEMA HP3 EXBBB (30 AWG) – Multicolored	G		
White	070	0.70	2.297
SAE AS22759/33-24 (AWG) – Multicolored	H		
White	080	0.80	2.625
SAE AS22759/33-26 (AWG) – Multicolored	J		
White	090	0.90	2.953
SAE AS22759/33-26 (AWG) – Multicolored	K		
White	100	1.00	3.281
SAE AS22759/33-28 (AWG) – Multicolored	L		
White	150	1.50	4.921
SAE AS22759/33-28 (AWG) – Multicolored	M		
White	200	2.00	6.562
SAE AS22759/33-30 (AWG) – Multicolored	N		
White	300	3.00	9.843
SAE AS22759/33-30 (AWG) – Multicolored	P		
White	R		
SAE AS22759/33-30 (AWG) – Multicolored	S		
White	S		

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