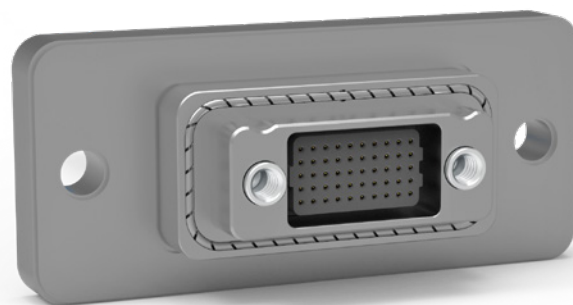


VPD — I/O Copper Cable

VPD models are single-ended, thermal interface, panel-mounted cables designed to mate with AV4M2 active optical cables and CV4M2 copper cables. Dust covers come standard with this model cable.



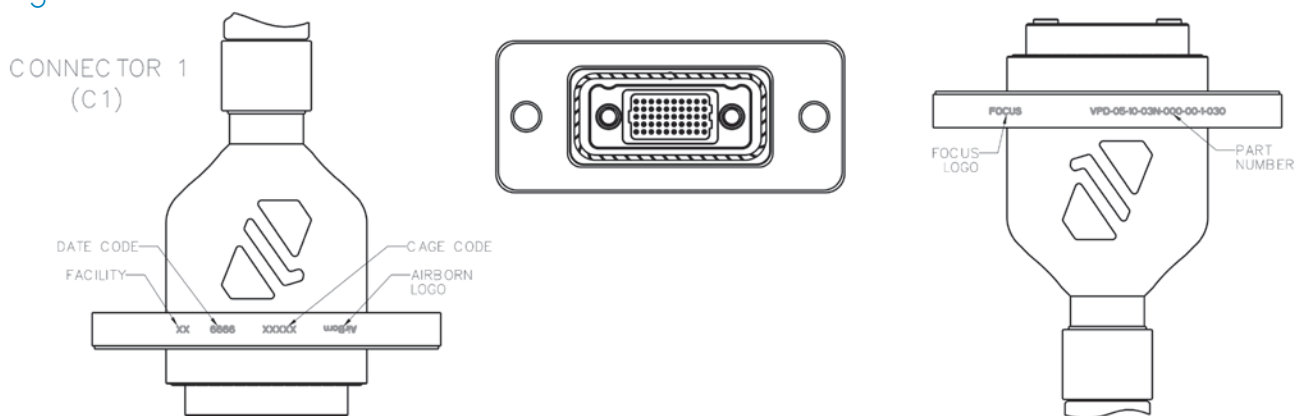
Sample Part Number Format: VPD-05-10-03N-000-00-1-030

VPD	05	10	03N	000			
Series VPD – Vertical Panel- Mount Female	Rows 05 – 5 Rows	Columns 10 – 10 Columns	Connector 1: verSI Panel Mount 03N – Female With Threaded Jacknut #4-40	Connector 2 000 – Flying Leads	Keying Polarization* 00 – Option 'A' - Standard 01 – Option 'B' 02 – Option 'C' 03 – Option 'D' 04 – Option 'E' 05 – Option 'F' 06 – Option 'G' 07 – Option 'H' *See pages 36-43 for keying details and dimensions	Braiding 1 – No Braid 2 – Braid	Length 030 – .98 Feet (0.30 Meters) 040 – 1.31 Feet (0.40 Meters) 050 – 1.64 Feet (0.50 Meters) 060 – 1.96 Feet (0.60 Meters) 070 – 2.29 Feet (0.70 Meters) 080 – 2.62 Feet (0.80 Meters) 090 – 2.95 Feet (0.90 Meters) 100 – 3.28 Feet (1.00 Meters)

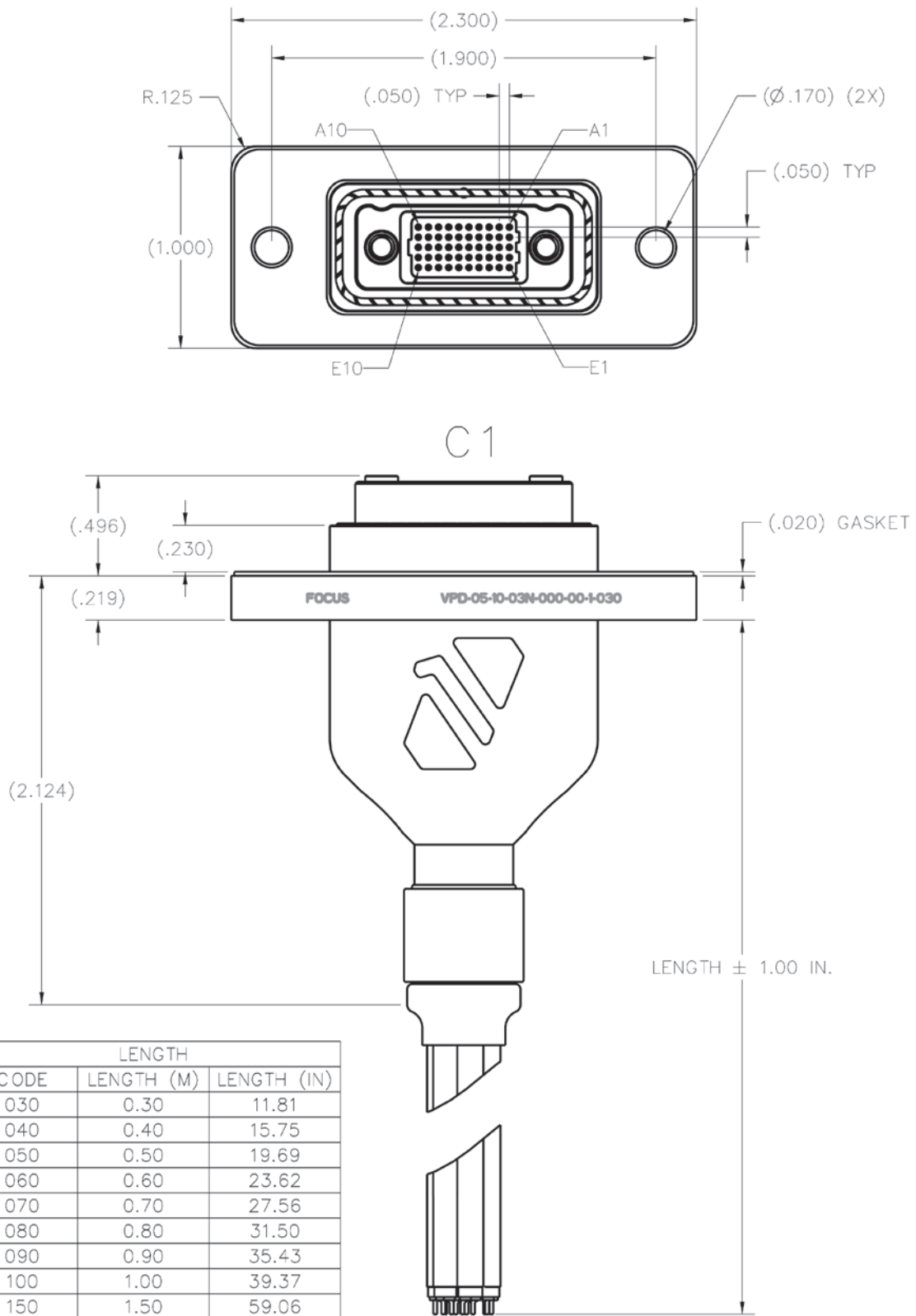
- Notes:**
- Mates with AV4MX & CV4MX cables
 - Packaging: cable to be packaged with dust covered installed (not shown) and in ESD safe packaging

NOTE: Please consult airborn.com to configure your part number and for the latest revision controlled drawing and technical data.

Marking Detail



Dimensions



Please consult the AirBorn website for the latest revision of this document prior to beginning any design work.

VPD Materials, Finishes, & Performance

Materials & Finishes

Shell	Material	6061-T6, 6061-T651, or 6061-T6511 aluminum SAE AMS 4027 or SAE AMS-QQ-A-200/8
	Finish	500µin min electroless Ni per SAE AMS-2404, class 3
Contacts	Socket Material	BeCu per ASTM B194
	Finish	50µin min localized gold finish per ASTM B488, over 50µin min Ni per ASTM B689 Type I
Cable	Finish	26 AWG, 100 OHM twinax cable
Wire	Material	24 AWG, M22759/33-24, black
Molded Insulator	Finish	Glass-filled liquid crystal polymer (LCP) per ASTM D5138
Hardware	Material	Stainless steel per ASTM A582/A582M or ASTM A320
	Finish	Passivate per SAE MAS-2700
Embedment	Material	Frey Eng. Co. Insulating compound CF3003-80 and L-II-49 or equivalent
Solder	Material	SN/PB solder, 63% PB, 37% SN
PCB	Material	ISOLA 185HR PCB laminate
	Finish	Electroless nickel immersion gold per IPS-6012/DS
Spira Gasket	Material	Beryllium copper
	Finish	Electroplated, 90% tin, 10% lead per AMS-P-81728
Thermal Electrical Gasket	Material	Silver-Copper filled silicon, acrylic, electrically conductive, pressure sensitive adhesive (PSA) backing

Performance

Contact Rating	2 Amperes max, see AirBorn PTB66 for more info
Operating Temperature	-55°C to 125°C, see AirBorn PTB66 for more info
Contact Engagement Force	6.0oz max*
Contact Separation Force	0.5oz min*
Connector Mating Force	10oz X (# of contacts) max tested per MIL-DTL-83513
Connector Unmating Force	10oz X (# of contacts) max tested per MIL-DTL-83513
DWV (Sea Level)	600V, RMS, 60Hz, see AirBorn PTB61 for more info
Recommended Maximum Operating Voltage	200V, RMS, 60Hz, see AirBorn PTB61 for more info
Insulation Resistance	5,000 MEGAOHMS minimum @ 500 VDC, tested per MIL-DTL-83513
Durability	10,000 connector mating cycles, exceeds MIL-DTL-83513
Sinusoidal Vibration	20g, tested per MIL-DTL-83513
Shock	50g, tested per MIL-DTL-83513
Outgassing	Max TML of 1% and max CVCM of .1% per MIL-DTL-83513

*Max pin size used for contact engagement force and min pin size used for contact separation force.

Please consult the AirBorn website for the latest revision of this document prior to beginning any design work.