

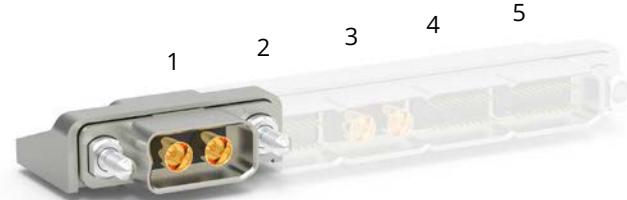
molex



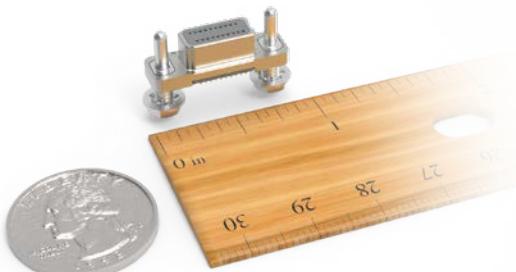
AirBorn Synergy

Modular High-Speed Hybrid Connectors

AirBorn Slnergy | Overview



Multi-bay, die-cast metal connector system with interchangeable molded insulator bays.



One- and two-bay Slnergy connectors are roughly the size of a US quarter — similar to Micro and Nano Ds.



SMPM interface (0.173"/4.39mm) available in cable and board-mount models.



Vertical and right-angle board-mount connectors. Discrete wire, SMPM RF and Twinax cabling assemblies.

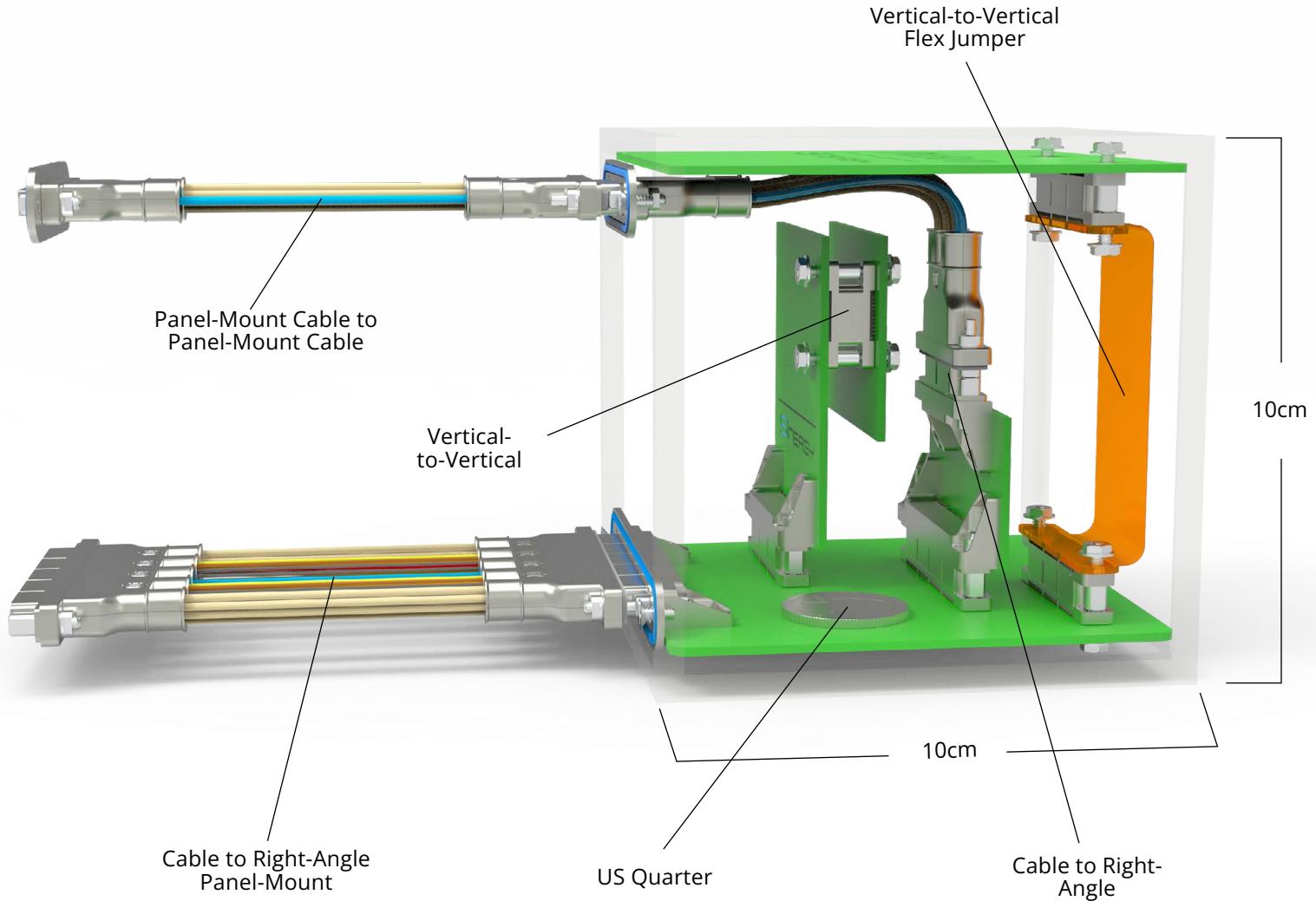
Small and Modular with Speeds up to 25Gbps

Molex AirBorn Slnergy Modular High-Speed Hybrid Connectors offer manufacturers a Modular solution with one to five configurable bays. Featuring four points of contact per pin with 50 microinches of gold plating, these connectors deliver speeds up to 25Gbps per lane or 75Gbps aggregate bidirectional bandwidth. Designed to withstand shock, vibration, moisture and extreme temperatures, AirBorn Slnergy connectors are thoroughly tested and qualified to meet MIL-DTL-83513 performance requirements. They support XAUI, USB 3.0, PCIe Gen 3/4, SAS-3/4 and Ethernet (10G/25G per lane) applications.

Key Features and Benefits:

- 0.0315" (0.8mm) signal and 0.173" (4.39mm) SMPM RF pitch
- Choose from discrete wire, SMPM RF or Twinax cable variations.
- High-density, multi-bay system
- Interchangeable molded signal and SMPM RF insulator bays
- IPC-A-610 Class 3 SMT termination
- Locking, jacking and guide hardware available
- Rugged die-cast or machined metal bodies
- Speeds up to 25Gbps per lane
- Qualification tests based on MIL-DTL-83513 performance requirements

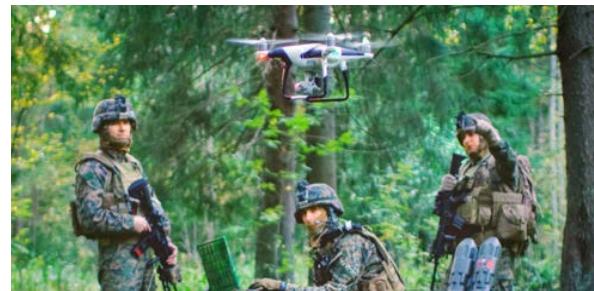
Exceptional Design Flexibility



AirBorn SInergy: Modularity and Versatility

AirBorn SInergy connectors provide a high-speed, high-density configurable solution that enables manufacturers and design engineers to mix and match any available module within a single interface. These connectors offer vertical board-mount, right-angle board-mount, cable I/O and flex circuit mounting options to help navigate box design challenges.

Ruggedness and Reliability



Keys to Surviving the Most Extreme Conditions

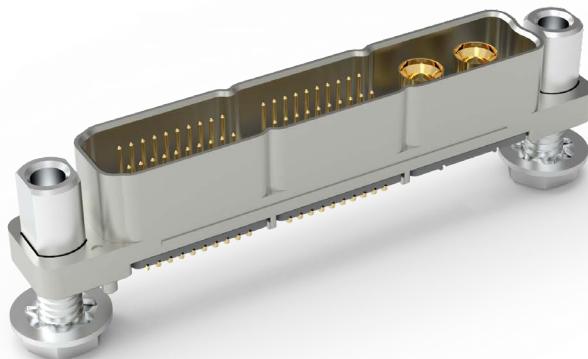
With decades of proven reliability and earned trust among manufacturers and design engineers, AirBorn Slnergy connectors deliver the rugged dependability essential for extreme applications where failure is not an option.

Applications:

- Avionics
- CubeSats
- FADEC systems
- Head-up displays
- Industrial equipment
- Military drones
- Missile systems
- Radar systems
- Radio communications
- RF antenna applications

SVR — Vertical Receptacle

Vertical board-mount receptacles feature one to five configurable bays, providing versatile connectivity options. AirBorn Slnergy connectors are tested and qualified to meet MIL-DTL-83513 performance requirements. Standard panel-mount options are available.



Sample Part Number Format: SVR-A1R-G1A-HHR									
SVR	-	1	R	-	A	-			
SERIES AirBorn Slnergy – Vertical Receptacle		TERMINATION TYPE 1 – Surface mount		HARDWARE KEYING A – Standard, no key	BAY A MODULE TYPE H – High Density R – RF (SMPM)	BAY B MODULE TYPE H – High Density R – RF	BAY C MODULE TYPE H – High Density R – RF	BAY D MODULE TYPE H – High Density R – RF	BAY E MODULE TYPE H – High Density R – RF
					Blank – No bay B	Blank – No bay C	Blank – No bay D	Blank – No bay E	
TERMINATION FINISH R – RoHS, 10 μ inches gold over nickel ¹									
SHELL/GASKET A – Standard B – Standard with interfacial seal C – Panel mount, no gasket or interfacial seal D – Panel mount with interfacial seal and gasket E – Panel mount with gasket and no interfacial seal		HARDWARE OPTIONS G1 – Guide socket - for use up to 0.125 PCB thickness G2 – Guide socket - for use 0.125 to 0.250 PCB thickness N1 – Fixed jack post - for use up to 0.125 PCB thickness N2 – Fixed jack post - for use 0.125 to 0.250 PCB thickness J1 – Turning jack screw - for use up to 0.125 PCB thickness J2 – Turning jack screw - for use 0.125 to 0.250 PCB thickness L1 – Turning lock screw - for use up to 0.125 PCB thickness L2 – Turning lock screw - for use 0.125 to 0.250 PCB thickness							

NOTES:

See Molex SPEC ESL6160 for additional application information.

¹ Applies to all surface mount leads in all bays.

Please review product specification drawing SVR-XXX-XXX-XXXX for complete configuration details.

See product specification drawings for replacement hardware kits and replacement gaskets.

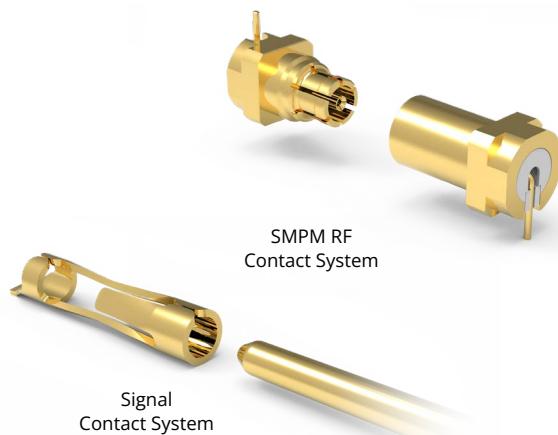
SVR mates with connector series: SVP, SCPP, SCPX, and SCRP (plug side).

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

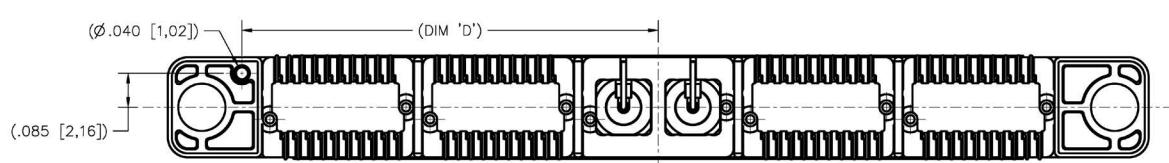
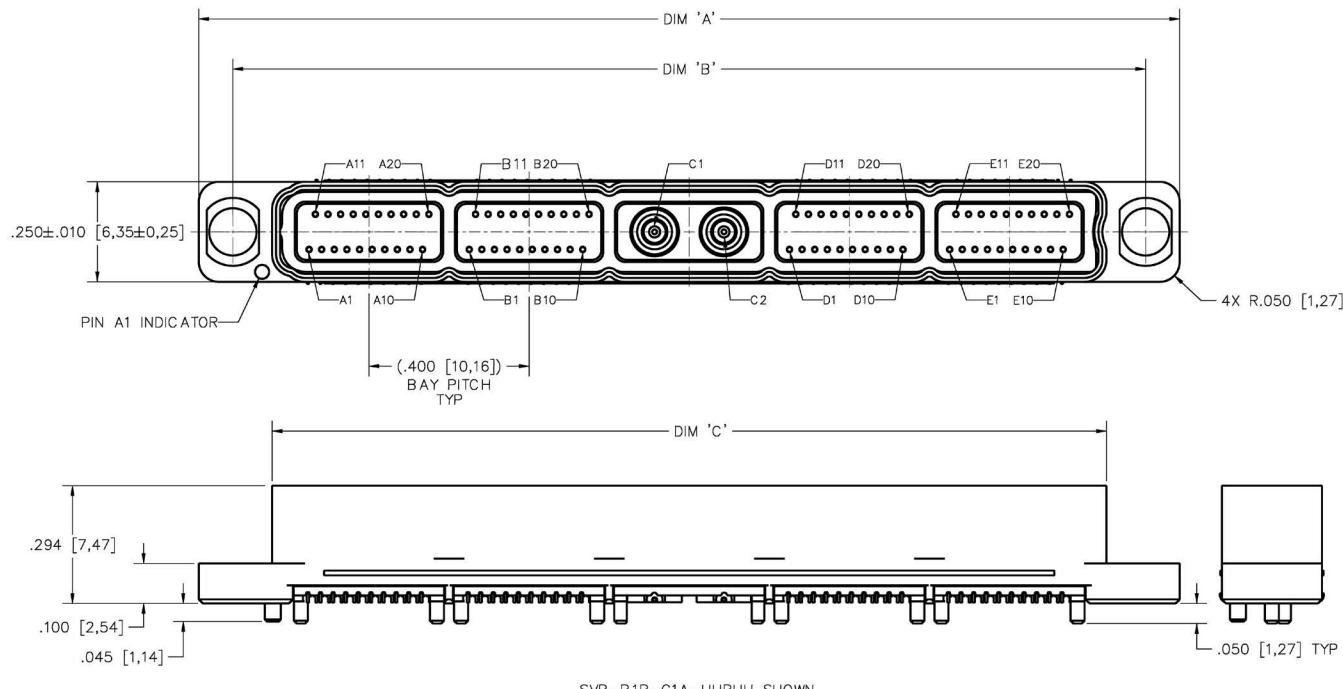
Rugged and Reliable Contact Every Time

AirBorn Slnergy connectors use two contact systems for robust performance. The Signal Contact System has a single-piece design with four points of contact and 50 microinches of gold plating on a 0.0315" (0.8 mm) pitch, meeting IPC-610 Class 3 SMT termination standards. The SMPM RF Contact System follows SMPM interface specifications with a 0.173" (4.39 mm) pitch for high-frequency signals.

Designed for military, aerospace, space and industrial applications, AirBorn Slnergy connectors withstand extreme environments while ensuring reliable contact.



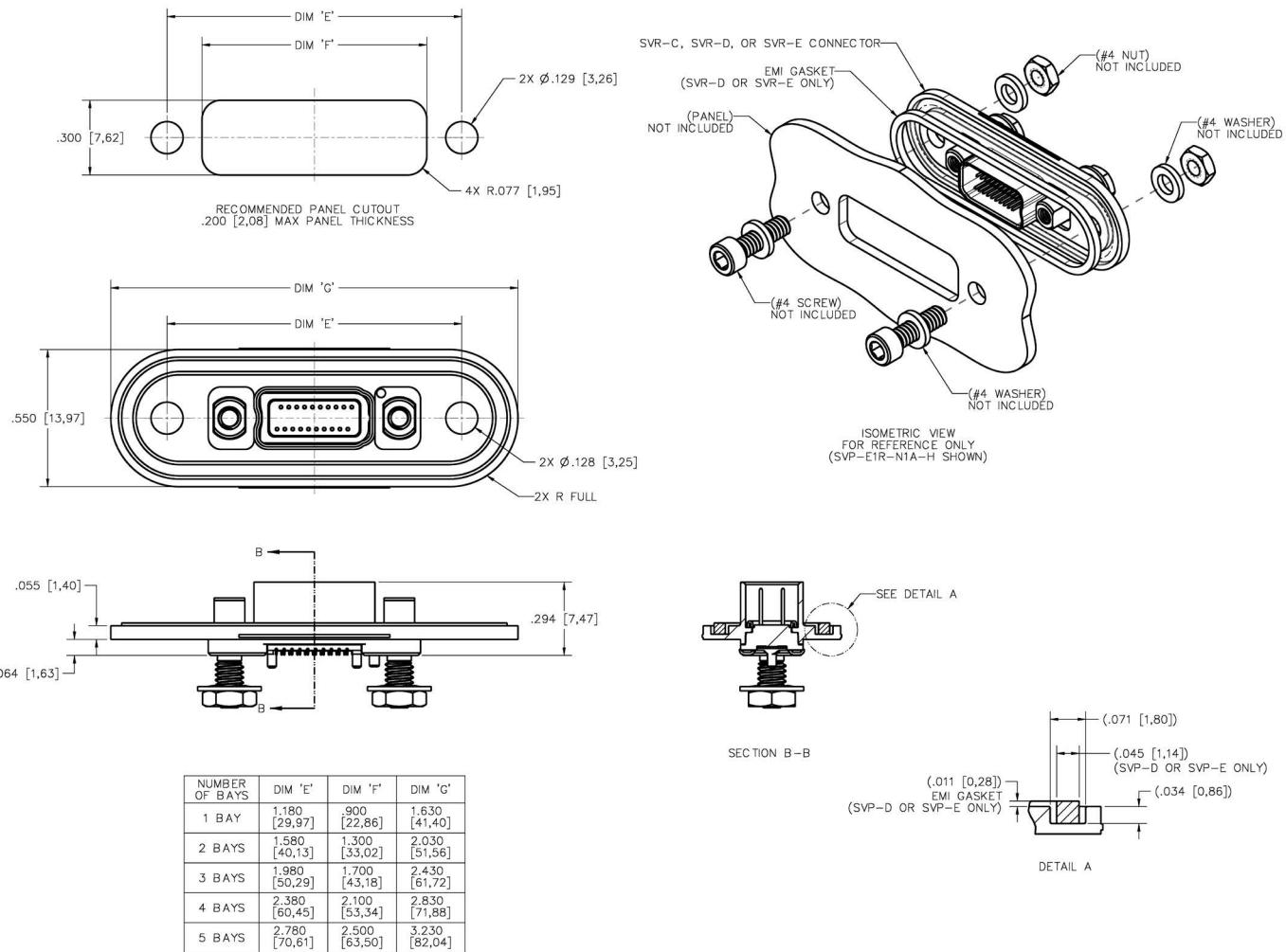
DIMENSIONS



NUMBER OF BAYS	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
1 BAY	.850 [21,59]	.680 [17,27]	.484 [12,29]	.240 [6,10]
2 BAYS	1.250 [31,75]	1.080 [27,43]	.884 [22,45]	.440 [11,18]
3 BAYS	1.650 [41,91]	1.480 [37,59]	1.284 [32,61]	.640 [16,26]
4 BAYS	2.050 [52,07]	1.880 [47,75]	1.684 [42,77]	.840 [21,34]
5 BAYS	2.450 [62,23]	2.280 [57,91]	2.084 [52,93]	1.040 [26,42]

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SVR Panel Mounting Instructions



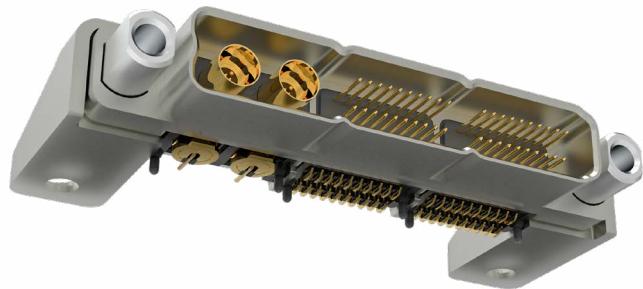
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SVR Materials and Finishes

ALL MODULES		
Molded Insulators	Material	Glass-filled liquid crystal polymer (LCP)
Shells	Material	Zinc alloy 3 per SAE AMS4803 (AG40A) or aluminum alloy 6061-T6 per SAE AMS-4027 or 6061-T6511 per SAE AMS-QQ-A-200/8
	Finish	Electroless nickel, 500 μ in min per SAE AMS2404, class 3
Hardware	Washer Material	Stainless steel per SAE NASM35333 (ASTM A240)
	Washer Finish	Passivated per SAE NASM35333 (SAE AMS-2700)
	Jack Post Material	Nitronic 60 per ASTM A193/A193M
	Jack Post Finish	Passivated per SAE AMS-2700
	Remaining Hardware Material	Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320
	Remaining Hardware Finish	Passivated per SAE AMS-2700
Interfacial Seal	Material	Fluorosilicone elastomer per MIL-DTL-25988
Panel-Mount Gasket	Material	Conductive elastomer per MIL-DTL-83528, type D
Pin Contact	Material	Phosphor bronze per ASTM B103
	Finish (Pin End)	50 μ in min localized gold per ASTM B 488, type II, code C over 50 μ in min nickel per ASTM B689, type 1
	Finish (Termination)	10-20 μ in localized gold flash per ASTM B488 type I, code A or C over 50 μ in min nickel per ASTM B689 type 1
Embedment	Material	Frey Eng. Co. Insulating compound CF3003-80 or equivalent
RF Contact	Material (Pin and Socket)	BeCu per ASTM B196
	Material (Bushings)	Brass per JIS-C3604
	Material (Dielectric)	PTFE (white) per ASTM D1710
	Finish (Pin and Socket)	30 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 4
	Finish (Bushing and Center Termination)	10 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 2
	Finish (Dielectric)	N/A

SRR — Right-Angle Receptacle

Right-angle board-mount receptacles feature one to five configurable bays, providing versatile connectivity options. AirBorn Slnergy connectors are tested and qualified to meet MIL-DTL-83513 performance requirements. Standard panel-mount options are available.



Sample Part Number Format: SRR-A1R-G1A-HHR									
SRR	-	1	R	-	A	-			
SERIES AirBorn Slnergy Right-Angle Receptacle		TERMINATION TYPE 1 – Surface mount		HARDWARE KEYING A – Standard, no key	BAY A MODULE TYPE H – High Density R – RF (SMPM)	BAY B MODULE TYPE H – High Density R – RF Blank – No bay B	BAY C MODULE TYPE H – High Density R – RF Blank – No bay C	BAY D MODULE TYPE H – High Density R – RF Blank – No bay D	BAY E MODULE TYPE H – High Density R – RF Blank – No bay E
SHELL/GASKET A – Standard B – Standard with interfacial seal C – Panel mount, no gasket or interfacial seal D – Panel mount with interfacial seal and gasket E – Panel mount with gasket and no interfacial seal		TERMINATION FINISH R – RoHS, 10 μ inches gold over nickel ¹		HARDWARE OPTIONS G1 – Guide socket N1 – Fixed jack post J1 – Turning jack screw L1 – Turning lock screw					
NOTES:									
See Molex SPEC ESL6160 for additional application information.									
¹ Applies to all surface mount leads in all bays.									
Please review product specification drawing SRR-XXX-XXX-XXXX for complete configuration details.									
See product specification drawings for replacement hardware kits and replacement gaskets.									
SR mates with connector series: SVP, SCPP, SCPX, and SCRP (plug side).									
NOTE: Please consult molex.com to configure your part number and for the latest revision controlled drawing and technical data.									

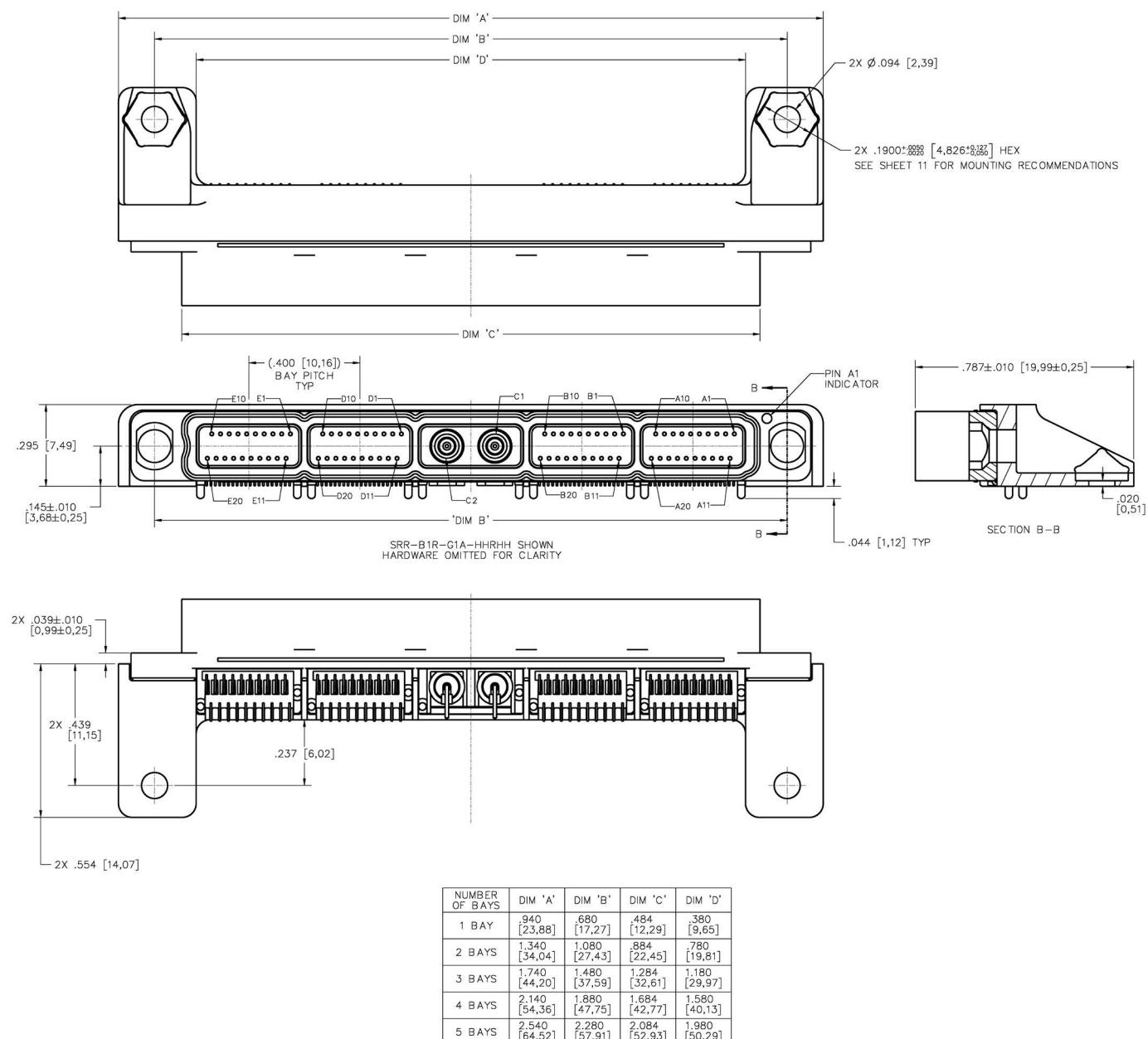
Rugged and Reliable Contact Every Time

AirBorn Slnergy connectors use two contact systems for robust performance. The Signal Contact System has a single-piece design with four points of contact and 50 microinches of gold plating on a 0.0315" (0.8 mm) pitch, meeting IPC-610 Class 3 SMT termination standards. The SMPM RF Contact System follows SMPM interface specifications with a 0.173" (4.39 mm) pitch for high-frequency signals.

Designed for military, aerospace, space and industrial applications, AirBorn Slnergy connectors withstand extreme environments while ensuring reliable contact.

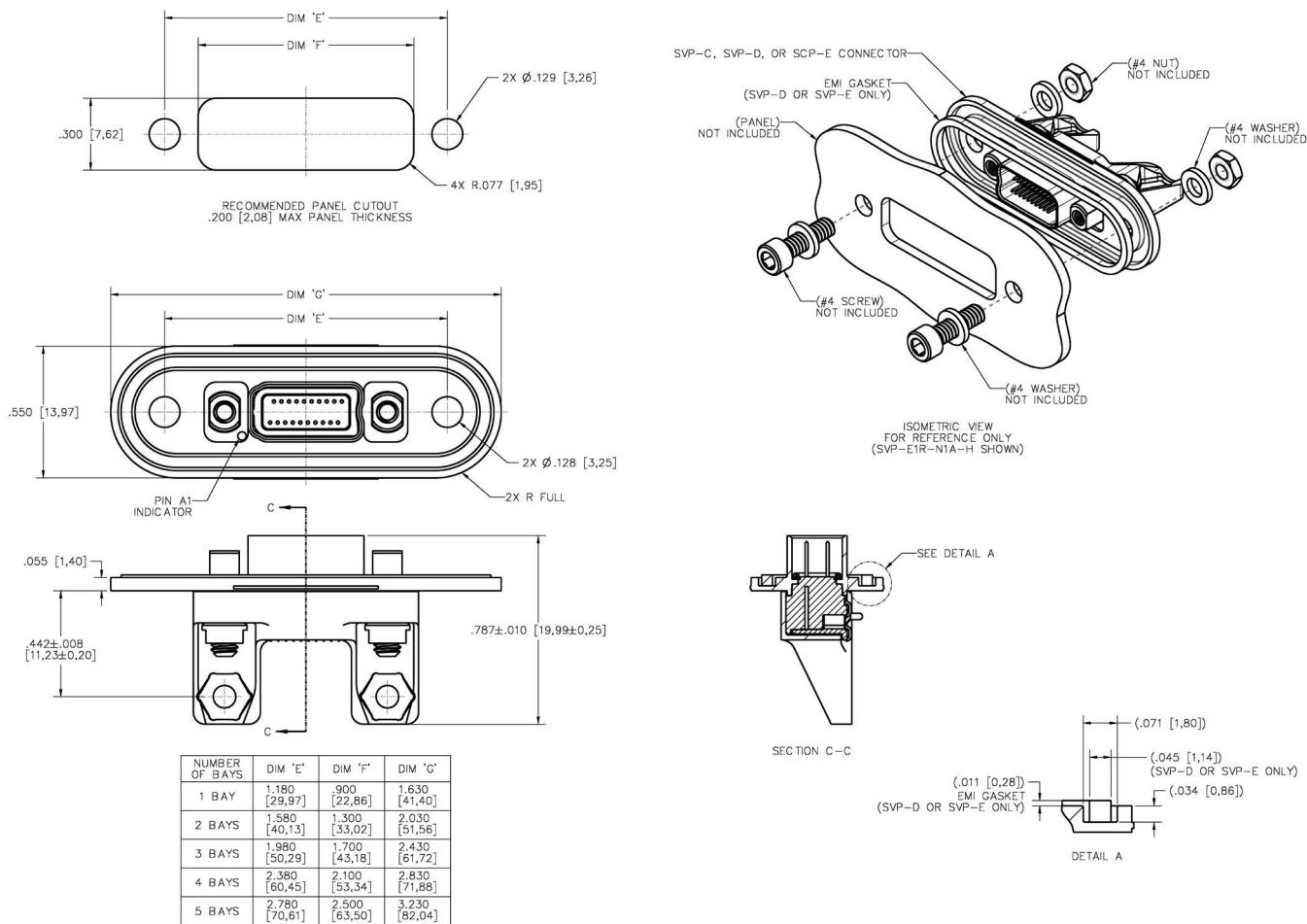


DIMENSIONS



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SRR Panel Mounting Instructions

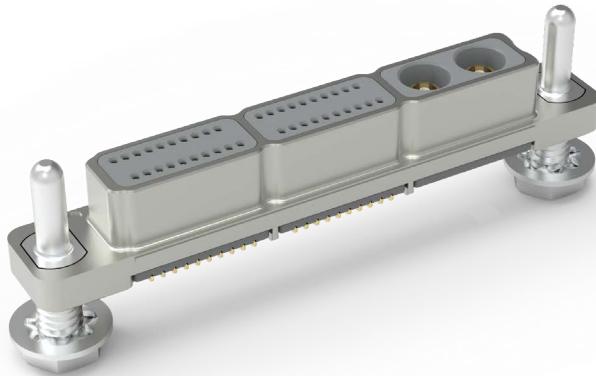


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ALL MODULES		
Molded Insulators	Material	Glass-filled liquid crystal polymer (LCP)
Shells	Material	Zinc alloy 3 per SAE AMS4803 (AG40A) or aluminum alloy 6061-T6 per SAE AMS-4027 or 6061-T6511 per SAE AMS-QQ-A-200/8
	Finish	Electroless nickel, 500 μ in min per SAE AMS2404, class 3
Hardware	Jack Post Material	Nitronic 60 per ASTM A193/A193M
	Jack Post Finish	Passivated per SAE AMS-2700
	Remaining Hardware Material	Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320
	Remaining Hardware Finish	Passivated per SAE AMS-2700
Interfacial Seal	Material	Fluorosilicone elastomer per MIL-DTL-25988
Panel-Mount Gasket	Material	Conductive elastomer per MIL-DTL-83528, type D
HD MODULES		
Pin Contact	Material	Phosphor bronze per ASTM B103
	Finish (Pin End)	50 μ in min localized gold per ASTM B 488, type II, code C over 50 μ in min nickel per ASTM B689, type 1
	Finish (Termination)	10-20 μ in localized gold flash per ASTM B488 type I, code A or C over 50 μ in min nickel per ASTM B689 type 1
Embedment	Material	Frey Eng. Co. Insulating compound CF3003-80 or equivalent
RF MODULES		
RF Contact	Material (Pin and Socket)	BeCu per ASTM B196
	Material (Bushings)	Brass per JIS-C3604
	Material (Dielectric)	PTFE (white) per ASTM D1710
	Finish (Pin and Socket)	30 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 4
	Finish (Bushing and Center Termination)	10 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 2
	Finish (Dielectric)	N/A

SVP — Vertical Plug

Vertical board-mount plugs feature one to five configurable bays, providing versatile connectivity options. AirBorn Slnergy connectors are tested and qualified to meet MIL-DTL-83513 performance requirements. Standard panel-mount options are available.



Sample Part Number Format: SVP-A1R-G1A-HHR									
SVP - 	1 	R - 	A - 	 	 	 	 	 	
SERIES AirBorn Slnergy - Vertical Plug	TERMINATION TYPE 1 - Surface mount	HARDWARE KEYING A - Standard, no key	BAY A MODULE TYPE H - High Density R - RF (SMPM)	BAY B MODULE TYPE H - High Density R - RF Blank - No bay B	BAY C MODULE TYPE H - High Density R - RF Blank - No bay C	BAY D MODULE TYPE H - High Density R - RF Blank - No bay D	BAY E MODULE TYPE H - High Density R - RF Blank - No bay E		
TERMINATION FINISH R - RoHS, 10µ inches gold over nickel ¹									
SHELL/GASKET A - Standard C - Panel mount without gasket E - Panel mount with gasket		HARDWARE OPTIONS G1 - Guide pin - for use up to 0.125 PCB thickness G2 - Guide pin - for use 0.125 to 0.250 PCB thickness N1 - Fixed jack post - for use up to 0.125 PCB thickness N2 - Fixed jack post - for use 0.125 to 0.250 PCB thickness J1 - Turning jack screw - for use up to 0.125 PCB thickness J2 - Turning jack screw - for use 0.125 to 0.250 PCB thickness L1 - Turning lock screw - for use up to 0.125 PCB thickness L2 - Turning lock screw - for use 0.125 to 0.250 PCB thickness							

NOTES:

See Molex SPEC ESL6160 for additional application information.

¹Applies to all surface mount leads in all bays.

Please review product specification drawing SVR-XXX-XXX-XXXXX for complete configuration details.

See product specification drawings for replacement hardware kits and replacement gaskets.

SVP mates with connector series: SVR, SRR, SCRR, SCRX, and SCRP (receptacle side).

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

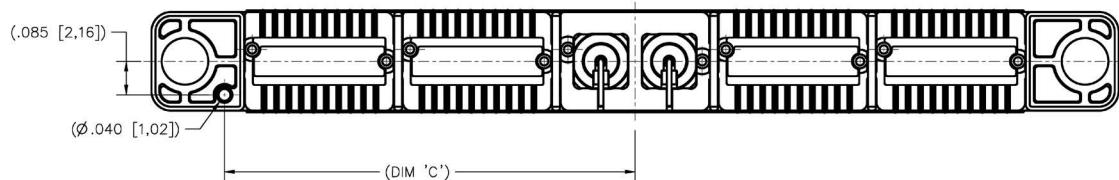
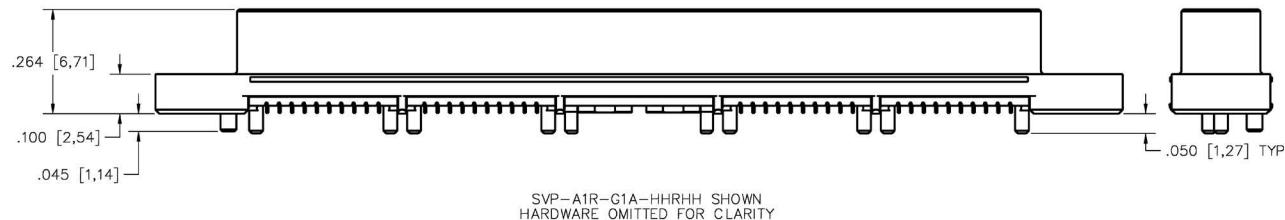
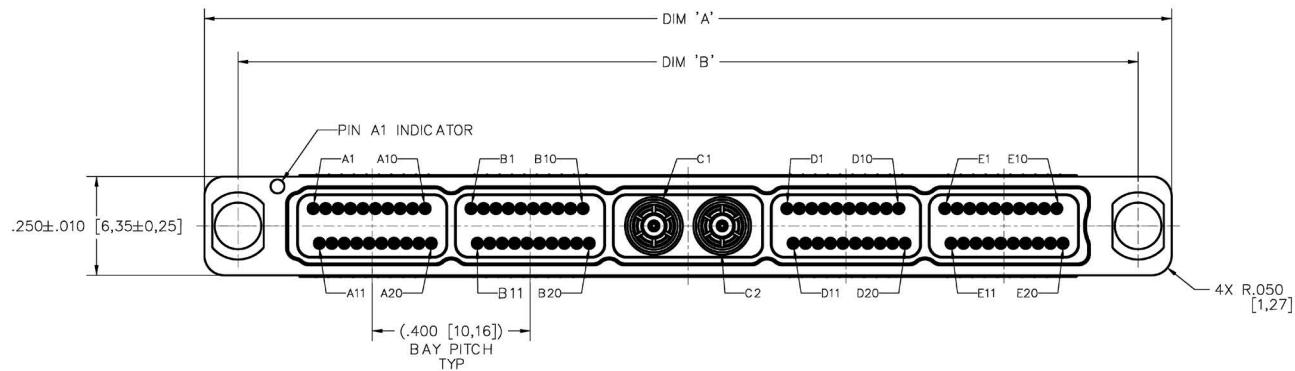
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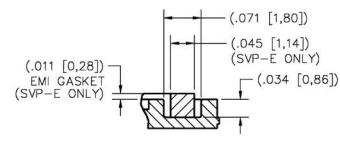
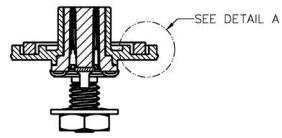
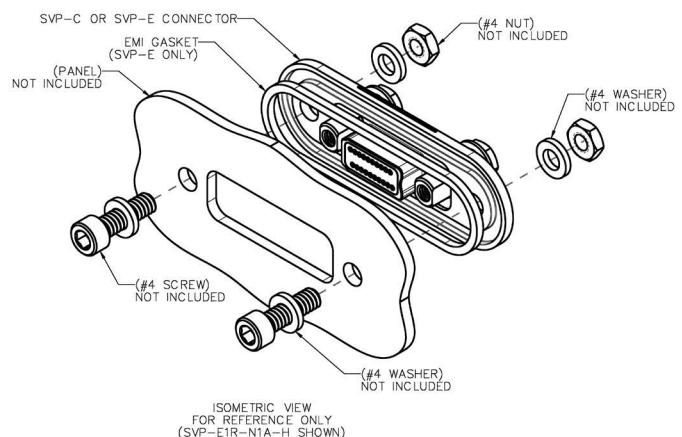
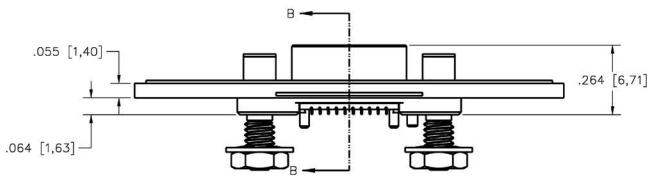
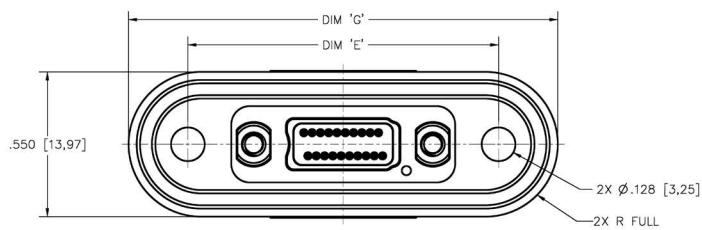
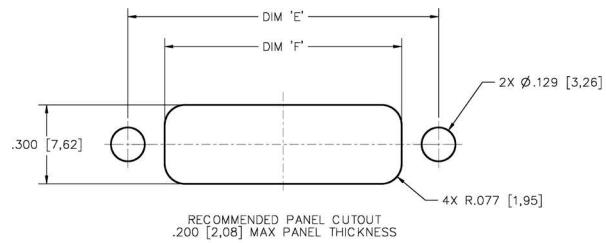
DIMENSIONS



NUMBER OF BAYS	DIM 'A'	DIM 'B'	DIM 'C'
1 BAY	.850 [21.59]	.680 [17.27]	.240 [6.10]
2 BAYS	1.250 [31.75]	1.080 [27.43]	.440 [11.18]
3 BAYS	1.650 [41.91]	1.480 [37.59]	.640 [16.26]
4 BAYS	2.050 [52.07]	1.880 [47.75]	.840 [21.34]
5 BAYS	2.450 [62.23]	2.280 [57.91]	1.040 [26.42]

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SVP Panel Mounting Instructions



NUMBER OF BAYS	DIM 'E'	DIM 'F'	DIM 'G'
1 BAY	1,180 [29,97]	.900 [22,86]	1,630 [41,40]
2 BAYS	1,580 [40,13]	1,300 [33,02]	2,030 [51,56]
3 BAYS	1,980 [50,29]	1,700 [43,18]	2,430 [61,72]
4 BAYS	2,380 [60,45]	2,100 [53,34]	2,830 [71,88]
5 BAYS	2,780 [70,61]	2,500 [63,50]	3,230 [82,04]

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SVP Materials and Finishes

ALL MODULES		
Molded Insulators	Material	Glass-filled liquid crystal polymer (LCP)
Shells	Material	Zinc alloy 3 per SAE AMS4803 (AG40A) or aluminum alloy 6061-T6 per SAE AMS-4027 or 6061-T6511 per SAE AMS-QQ-A-200/8
	Finish	Electroless nickel, 500 μ in min per SAE AMS2404, class 3
Hardware	Washer Material	Stainless steel per SAE NASM35333 (ASTM A240)
	Washer Finish	Passivated per SAE NASM35333 (SAE AMS-2700)
	Jack Post Material	Nitronic 60 per ASTM A193/A193M
	Jack Post Finish	Passivated per SAE AMS-2700
	Remaining Hardware Material	Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320
	Remaining Hardware Finish	Passivated per SAE AMS-2700
Panel-Mount Gasket	Material	Conductive elastomer per MIL-DTL-83528, type D
HD MODULES		
Pin Contact	Material	Phosphor bronze per ASTM B103
	Finish (Pin End)	50 μ in min localized gold per ASTM B 488, type II, code C over 50 μ in min nickel per ASTM B689, type 1
	Finish (Termination)	10-20 μ in localized gold flash per ASTM B488 type I, code A or C over 50 μ in min nickel per ASTM B689 type 1
Embedment	Material	Frey Eng. Co. Insulating compound CF3003-80 or equivalent
RF MODULES		
RF Contact	Material (Pin and Socket)	BeCu per ASTM B196
	Material (Bushings)	Brass per JIS-C3604
	Material (Dielectric)	PTFE (white) per ASTM D1710
	Finish (Pin and Socket)	30 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 4
	Finish (Bushing and Center Termination)	10 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 2
	Finish (Dielectric)	N/A

SC — Cables

Twinaxial cable, discrete wire and SMPM RF options feature one to five configurable bays. AirBorn SInergy connectors are tested and qualified to meet MIL-DTL-83513 performance requirements. Standard panel-mount options are available.



Sample Part Number Format: SCRP-BJA-XXX-100-TCT														
SC				-			A	-				-		
SERIES AirBorn SInergy - Cable				CONNECTOR 2 GENDER R - Receptacle P - Plug X - Flying leads			CONNECTOR 1 HARDWARE KEYING A - Standard, no key							LENGTH See opposite page
CONNECTOR 1 GENDER R - Receptacle P - Plug				CONNECTOR 1 HARDWARE G - Guide socket N - Fixed jack post J - Turning jack screw L - Turning lock screw			CONNECTOR 2 HARDWARE KEYING A - Standard, no key X - Flying leads							BAY A MODULE TYPE C - Discrete wire T - Twinax R - RF (SMPM)
				CONNECTOR 1 SHELL/GASKET A - Standard B - Standard, with interfacial seal (receptacle only) C - Panel mount, no gasket or interfacial seal D - Panel mount, with interfacial seal and gasket (receptacle only) E - Panel mount, with gasket and no interfacial seal			CONNECTOR 2 SHELL/GASKET A - Standard B - Standard, with interfacial seal (receptacle only) C - Panel mount, no gasket or interfacial seal D - Panel mount, with interfacial seal and gasket (receptacle only) E - Panel mount, with gasket and no interfacial seal X - Flying leads						BAY B MODULE TYPE C - Discrete wire T - Twinax R - RF (SMPM) Blank - No Bay E	
														BAY C MODULE TYPE C - Discrete wire T - Twinax R - RF (SMPM) Blank - No Bay E
														BAY D MODULE TYPE C - Discrete wire T - Twinax R - RF (SMPM) Blank - No Bay E
														BAY E MODULE TYPE C - Discrete wire T - Twinax R - RF (SMPM) Blank - No Bay E
NOTES:														
Flying leads not available for RF models.														
NOTE: Please consult molex.com to configure your part number and for the latest revision controlled drawing and technical data.														

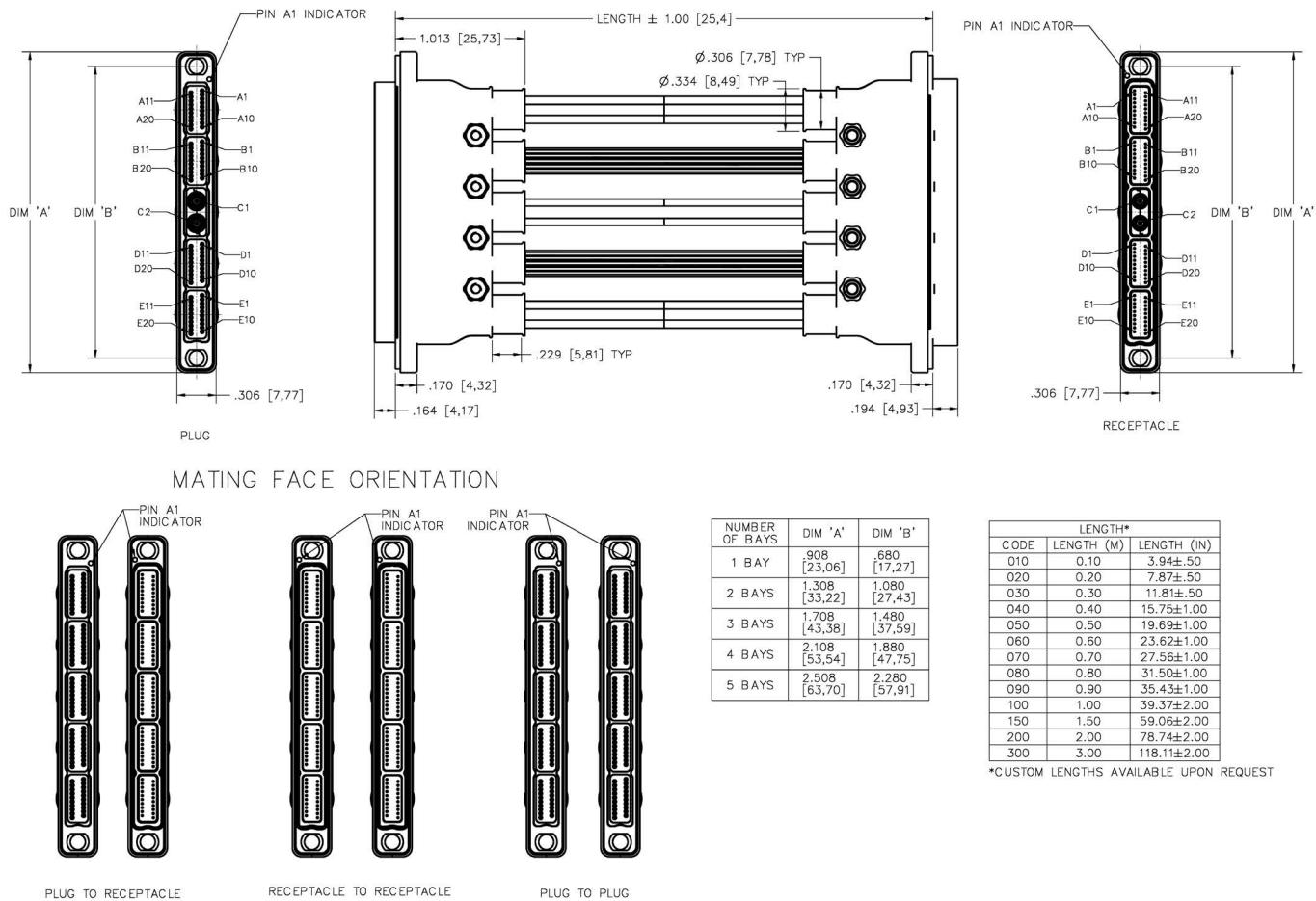
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DIMENSIONS



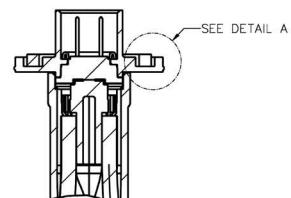
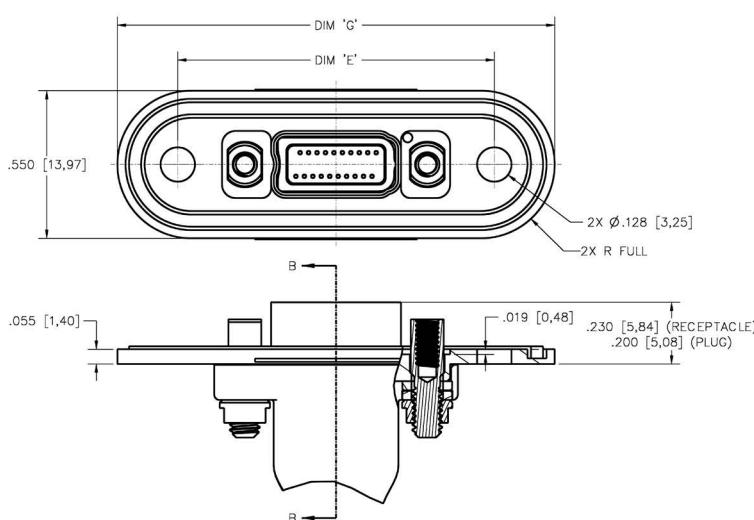
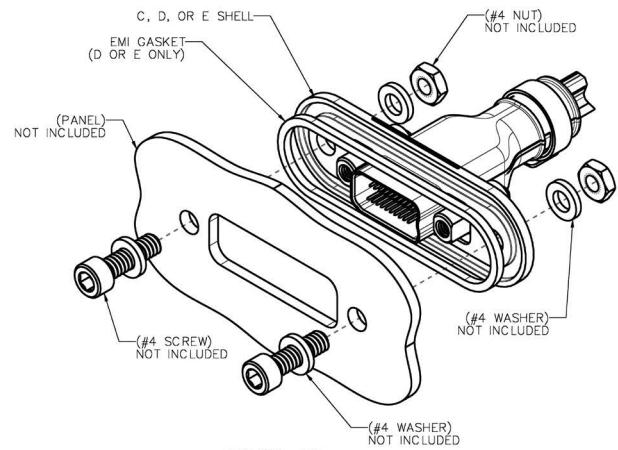
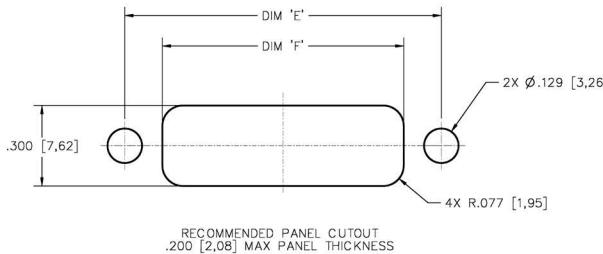
NUMBER OF BAYS	DIM 'A'	DIM 'B'
1 BAY	.908 [23.06]	.680 [17.27]
2 BAYS	1.308 [33.22]	1.080 [27.43]
3 BAYS	1.708 [43.38]	1.480 [37.59]
4 BAYS	2.108 [53.54]	1.880 [47.75]
5 BAYS	2.508 [63.70]	2.280 [57.91]

CODE	LENGTH*	
	LENGTH (M)	LENGTH (IN)
010	0.10	3.94±.50
020	0.20	7.87±.50
030	0.30	11.81±.50
040	0.40	15.75±1.00
050	0.50	19.69±1.00
060	0.60	23.62±1.00
070	0.70	27.56±1.00
080	0.80	31.50±1.00
090	0.90	35.43±1.00
100	1.00	39.37±2.00
150	1.50	59.06±2.00
200	2.00	78.74±2.00
300	3.00	118.11±2.00

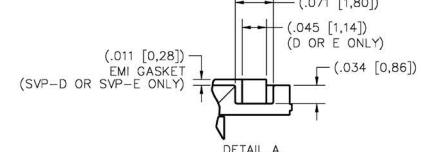
*CUSTOM LENGTHS AVAILABLE UPON REQUEST

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

SC Panel Mounting Instructions



SECTION B-B



NUMBER OF BAYS	DIM 'E'	DIM 'F'	DIM 'G'
1 BAY	1.180 [29,97]	.900 [22,86]	1.630 [41,40]
2 BAYS	1.580 [40,13]	1.300 [33,02]	2.030 [51,56]
3 BAYS	1.980 [50,29]	1.700 [43,18]	2.430 [61,72]
4 BAYS	2.380 [60,45]	2.100 [53,34]	2.830 [71,88]
5 BAYS	2.780 [70,61]	2.500 [63,50]	3.230 [82,04]

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SC Materials and Finishes

ALL MODULES		
Molded Insulators	Material	Glass-filled liquid crystal polymer (LCP)
Shells	Material	Zinc alloy 3 per SAE AMS4803 (AG40A) or aluminum alloy 6061-T6 per SAE AMS-4027 or 6061-T6511 per SAE AMS-QQ-A-200/8
	Finish	Electroless nickel, 500 μ in min per SAE AMS2404, class 3
Hardware	Socket Head Cap Screw Material	Stainless steel per NAS1352
	Socket Head Cap Screw Finish	Passivated per NAS13
	Jack Post Material	Nitronic 60 per ASTM A193/A193M
	Jack Post Finish	Passivated per SAE AMS-2700
	Remaining Hardware Material	Stainless steel per ASTM A484/A484M, ASTM A582/A582M, or ASTM A320
	Remaining Hardware Finish	Passivated per SAE AMS-2700
Band Clamp (Single Bay Only)	Material	Stainless steel per TBD
	Finish	Passivated per AMS2700
Solder	Material	SAC305, 95.5% Sn, 3.0% Ag, .5% Cu
Overmold	Material	TBD
Interfacial Gasket	Material	Fluorosilicone elastomer per MIL-DTL-25988
Panel-Mount Gasket	Material	Conductive elastomer per MIL-DTL-83528, type D
TWINAX AND DISCRETE WIRE MODULES		
Contact	Pin Material	Phosphor bronze per ASTM B103
	Socket Material	BeCu Per ASTM B194
	Finish (Mating End)	50 μ in min localized gold per ASTM B 488, type II, code C over 50 μ in min nickel per ASTM B689, type 1
Twinax/Discrete Wire		See product spec. drawing SCXX-XXX-XXX-XXX-XXXX
RF MODULE		
RF Contact	Material (Pin and Socket)	BeCu per ASTM B196
	Material (Bushings)	Brass per JIS-C3604
	Material (Dielectric)	PTFE (white) per ASTM D1710
	Finish (Pin and Socket)	30 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 4
	Finish (Brushing and Center Termination)	10 μ in min localized gold over 100 μ in min nickel per MIL-G-45204 type 1, class 2
	Finish (Dielectric)	N/A
Coaxial Cable		See product specification drawing SCXX-XXX-XXX-XXX-XXXX

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