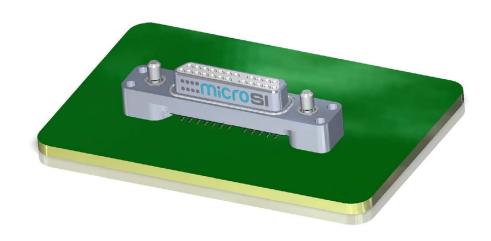




:::Micros1™

The AirBorn microSI product line is designed to meet requirements for high-speed/signal integrity applications while still delivering the reliability customers have come to expect from AirBorn. MicroSI delivers flexibility by design, offering vertical board-mount, right angle board-mount, and cable I/O configurations supporting 1X, 4X, and 8X 100 Ω and 85 Ω differential serial buses. Its balanced design limits skew within pairs. The MIL-DTL-83513 (Micro-D) qualified contact system and metal shells ensure ruggedness and durability.



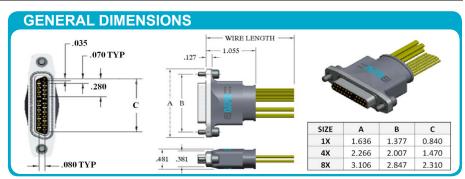


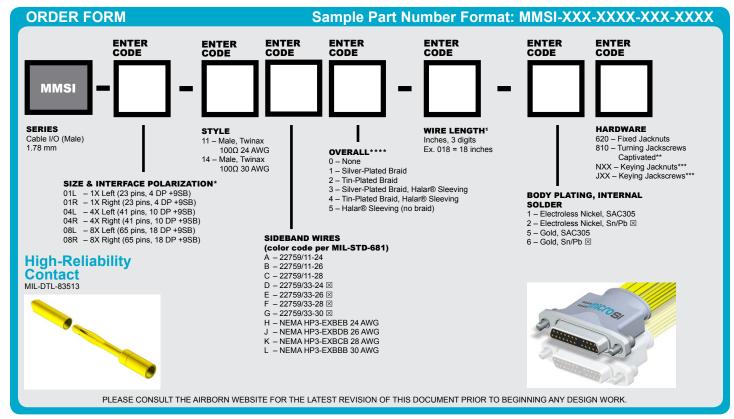




MMSI - Cable I/O (Male)

MMSI cable connectors are used in cable applications where signal integrity is desired. The connector interface controls the polarization of the twinax contact style. Comes with a variety of wiring and hardware options. All cable connectors are available in custom lengths.





NOTES

- Overall braid and/or Halar® will be 1.0 ± 0.5 inches shorter than specified wire length. Minimum length without overall braid or Halar® is 3 inches. If overall braid or Halar® is specified the minimum length is 6 inches.
- \boxtimes Option not RoHS compliant
- Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the non-angled side.
- Captivated hardware is factory-installed and non-removable
- Factory-installed and non-removable.
- Halar is a registered trademark of Ausimont.

MATERIALS and FINISHES

	<u> </u>
Socket Contact:	Brass
Pin Contacts:	BeCu alloy strip
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	Aluminum alloy 6061-T6
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	Glass-filled liquid crystal polymer (LCP)
Embedment:	. Frey Eng. Co. compound CF3003-80 & L-II-49
Hardware:	Corrosion-resistant steel
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	Corrosion-resistant steel
NOTE: AirBorn can manufacture special configura	tions to your exact specifications.

PERFORMANCE

			FERI ORIVIAIVOE	
SIG	NAL INTEGRITY PERFORMANCE (C	Connectors Only)		
			Insulation Resistance	5,000 megohms minimum @ 500 VDC
1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm	Durability:	500 connector mating cycles
^	Diff Innertical Lane	10 011- @ 0 40	Contact Engaging Force:	6.0 ounces maximum/contact
2	Diff. Insertion Loss	10 GHz @ -3 dB	Contact Separating Force:	0.5 ounces minimum/contact
3	Diff. Return Loss	7.5 GHz @ -10 dB	Mating and Unmating Force:	
4	Intra-Pair	< 2 ps	NOTE: Performance values are estimates at t	his time. Actual values will be determined when final

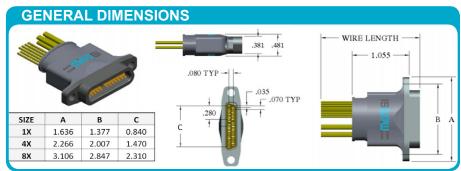
NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.

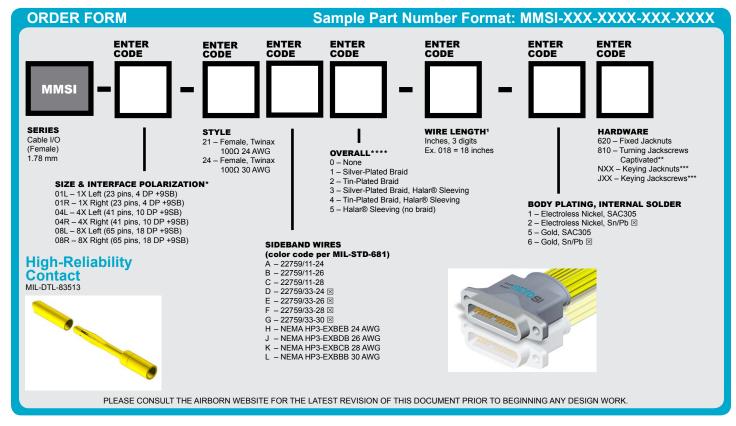




MMSI - Cable I/O (Female)

MMSI cable connectors are used in cable applications where signal integrity is desired. The connector interface controls the polarization of the twinax contact style. Comes with a variety of wiring and hardware options. All cable connectors are available in custom lengths.





NOTES

- Overall braid and/or Halar® will be 1.0 ± 0.5 inches shorter than specified wire length.
 Minimum length without overall braid or Halar® is 3 inches. If overall braid or Halar® is specified the minimum length is 6 inches.
- All microSI females have fluorosilicone interfacial seals installed.
- oxdot Option not RoHS compliant
- * Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable.
- *** Factory-installed and non-removable
- **** Halar is a registered trademark of Ausimont.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)		
1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

MATERIALS and FINISHES

Socket Contact:	Brass
Pin Contacts:	BeCu alloy strip
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	Aluminum alloy 6061-T6
Shell Finishes:	
Molded Insulators:	s-filled liquid crystal polymer (LCP)
Embedment: Frey Eng. Co	
Hardware:	Corrosion-resistant steel
Interfacial Seal Gaskets:	
EMI Gaskets:	Corrosion-resistant steel

NOTE: AirBorn can manufacture special configurations to your exact specifications.

PERFORMANCE

Contact Rating: Operating Temperature:	55° C to 125° C
Maximum Working Voltage:	
Insulation Resistance	
Durability:	
Contact Engaging Force:	
Contact Separating Force:	
Mating and Unmating Force:	10 ounces maximum/contact

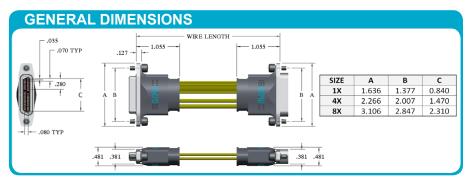


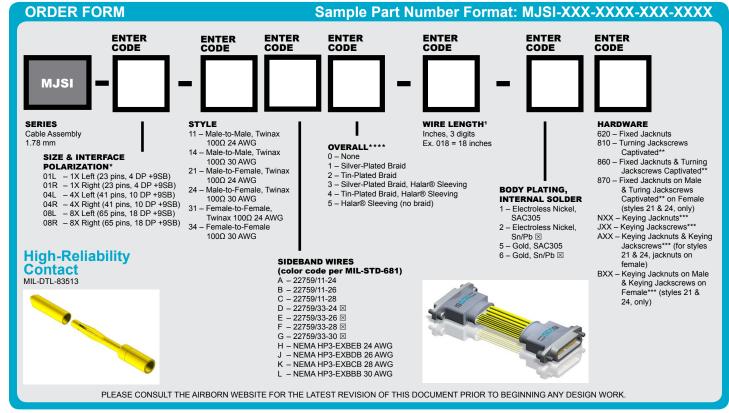




MJSI - Cable Assembly

MJSI cable assemblies are used in jumper applications where signal integrity is desired. They have a wide range of styles, wiring options, and hardware options. All cable assemblies are available in custom lengths.





NOTES

- All microSI females have fluorosilicone interfacial seals installed.
- Overall braid and/or Halar® will be 1.0 ± 0.5 inches shorter than specified wire length.
 Minimum length without overall braid or Halar® is 3 inches. If overall braid or Halar® is specified the minimum length is 6 inches.
- Hardware is the same for both connectors unless otherwise noted.
- * Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable.
- *** Factory-installed and non-removable
- **** Halar is a registered trademark of Ausimont.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)		
1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

MATERIALS and FINISHES

Socket Contact:	Brass
Pin Contacts:	
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	
Shell Finishes:	Electroless nickel or Gold
Molded Insulators:	Glass-filled liquid crystal polymer (LCP)
	Frey Eng. Co. compound CF3003-80 & L-II-49
Hardware:	
	Fluorosilicone
EMI Gaskets:	

NOTE: AirBorn can manufacture special configurations to your exact specifications.

PERFORMANCE

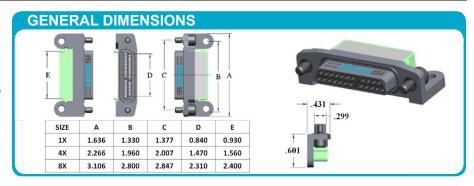
Contact Rating: 3 amperes maximur Operating Temperature: .55° C to 125° Maximum Working Voltage: 200V, RMS, 60F Insulation Resistance 5,000 megohms minimum @ 500 VD Durability: 500 connector mating cycle Contact Engaging Force: 6.0 ounces maximum/contact Contact Separating Force: 0.5 ounces minimum/contact	C Iz C es ct
Mating and Unmating Force:	ct

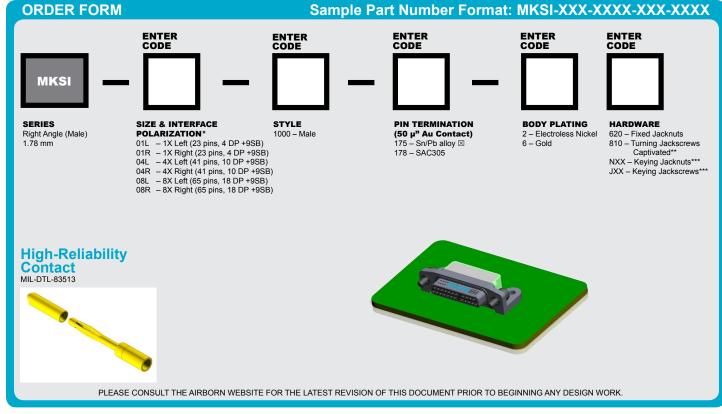




MKSI - Right Angle (Male)

MKSI right angle board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.





NOTES

- Option not RoHS compliant.
- Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable
- Factory-installed and non-removable. Refer to Keying Options page.

MATERIALS and FINISHES

Socket Contact:	
Contact Finish:	
Shells:	Aluminum alloy 6061-T6
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	
Embedment: Fr	
Hardware:	
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	

NOTE: AirBorn can manufacture special configurations to your exact specifications.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

PERFORMANCE

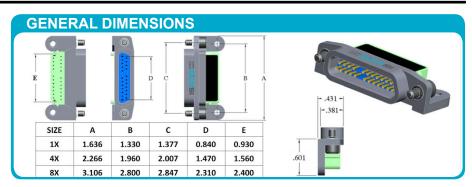
Contact Rating:	3 amperes maximum
Operating Temperature:	55° C to 125° C
Maximum Working Voltage:	200V, RMS, 60Hz
Insulation Resistance	5,000 megohms minimum @ 500 VDC
Durability:	500 connector mating cycles
Contact Engaging Force:	6.0 ounces maximum/contact
Contact Separating Force:	0.5 ounces minimum/contact
Mating and Unmating Force:	10 ounces maximum/contact

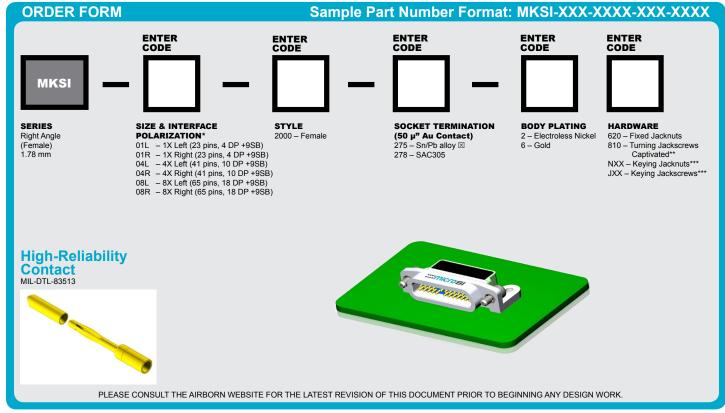




MKSI - Right Angle (Female)

MKSI right angle board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.





NOTES

- 1. All microSI females have fluorosilicone interfacial seals installed.
- Option not RoHS compliant.
- Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable.
- *** Factory-installed and non-removable. Refer to Keying Options page.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

MATERIALS and FINISHES

INAI LINALO and i livio	I ILO
Socket Contact:	Brass
Pin Contacts:	BeCu alloy strip
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	
Embedment:	Frey Eng. Co. compound CF3003-80 & L-II-49
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	Corrosion-resistant steel

NOTE: AirBorn can manufacture special configurations to your exact specifications.

PERFORMANCE

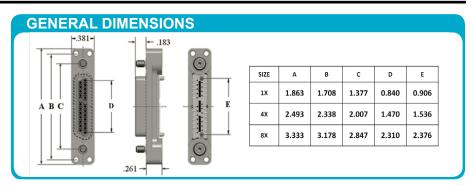
Contact Rating: Operating Temperature: Maximum Working Voltage: Insulation Resistance Durability:	
Contact Engaging Force:	
Contact Separating Force:	
Mating and Unmating Force:	

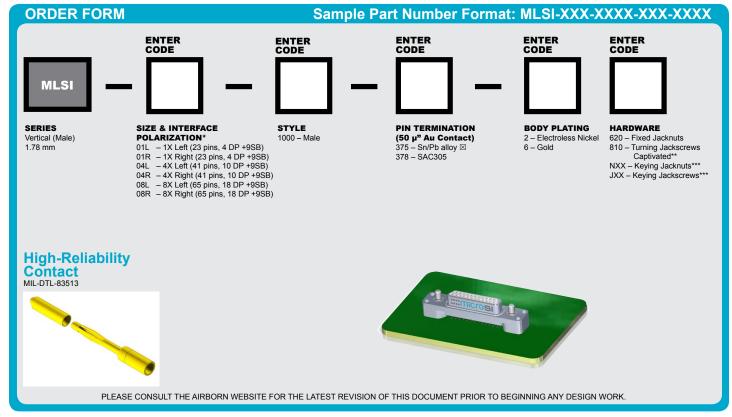




MLSI - Vertical (Male)

MLSI vertical board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.





NOTES

- Option not RoHS compliant.
- * Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable.
- *** Factory-installed and non-removable. Refer to Keying Options page.

MATERIALS and FINISHES

Socket Contact:	Brass
Pin Contacts:	BeCu alloy strip
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	
	Frey Eng. Co. compound CF3003-80 & L-II-49
Hardware:	
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	

NOTE: AirBorn can manufacture special configurations to your exact specifications.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

PERFORMANCE

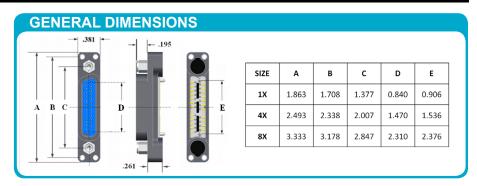
Contact Rating:	3 amperes maximum
Operating Temperature:	55° C to 125° C
Maximum Working Voltage:	200V, RMS, 60Hz
Insulation Resistance	000 megohms minimum @ 500 VDC
Durability:	500 connector mating cycles
Contact Engaging Force:	6.0 ounces maximum/contact
Contact Separating Force:	0.5 ounces minimum/contact
Mating and Unmating Force:	10 ounces maximum/contact

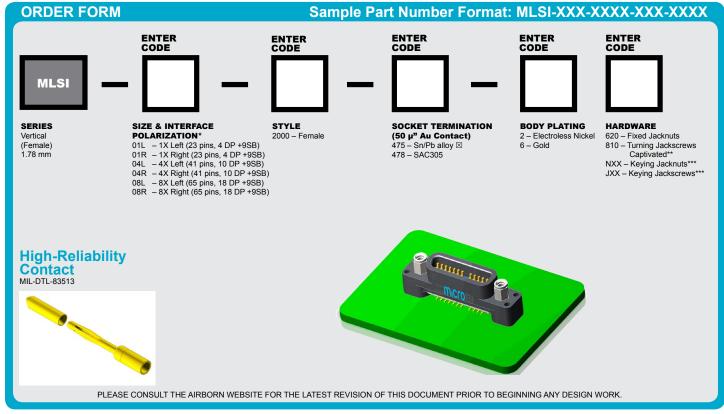




MLSI - Vertical (Female)

MLSI vertical board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.





NOTES

- 1. All microSI females have fluorosilicone interfacial seals installed.
- Option not RoHS compliant.
- Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the nonangled side.
- ** Captivated hardware is factory-installed and non-removable.
- *** Factory-installed and non-removable. Refer to Keying Options page.

SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

MATERIALS and FINISHES

MAI ENIALO GIIG I INIOITE	
Socket Contact:	Brass
Pin Contacts:	
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	Aluminum alloy 6061-T6
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	Glass-filled liquid crystal polymer (LCP)
Embedment:	Frey Eng. Co. compound CF3003-80 & L-II-49
Hardware:	
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	Corrosion-resistant steel

NOTE: AirBorn can manufacture special configurations to your exact specifications.

PERFORMANCE

Contact Rating: Operating Temperature: Maximum Working Voltage: Insulation Resistance Durability:	
Contact Engaging Force:	
Contact Separating Force:	
Mating and Unmating Force:	