

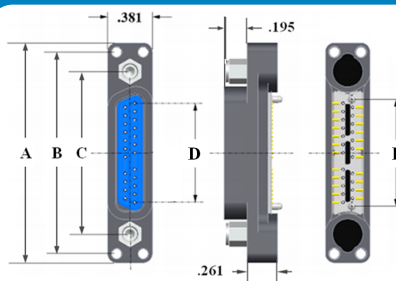


microSI™

MLSI – Vertical (Female)

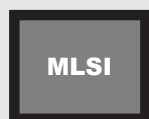
MLSI vertical board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.

GENERAL DIMENSIONS



SIZE	A	B	C	D	E
1X	1.863	1.708	1.377	0.840	0.906
4X	2.493	2.338	2.007	1.470	1.536
8X	3.333	3.178	2.847	2.310	2.376

Sample Part Number Format: MLSI-04L-2000-478-2810



SERIES
Vertical
(Female)
1.78 mm



SIZE & INTERFACE POLARIZATION*

01L – 1X Left (23 pins, 4 DP +9SB)
01R – 1X Right (23 pins, 4 DP +9SB)
04L – 4X Left (41 pins, 10 DP +9SB)
04R – 4X Right (41 pins, 10 DP +9SB)
08L – 8X Left (65 pins, 18 DP +9SB)
08R – 8X Right (65 pins, 18 DP +9SB)



STYLE
2000 – Female



**SOCKET TERMINATION
(50 μ" Au Contact)**
475 – Sn/Pb alloy ☐
478 – SAC305



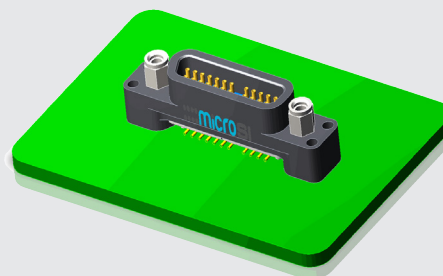
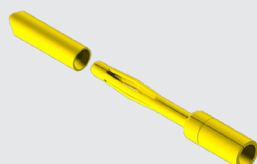
BODY PLATING
2 – Electroless nickel
6 – Gold



HARDWARE
620 – Fixed jacknut
810 – Turning jackscrews,
captivated**
NXX – Keying jackscrews***
JXX – Keying jackscrews***

High-Reliability Contact

MIL-DTL-83513



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

NOTES

- 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 non-angled side.
- Captivated hardware is factory-installed and non-removable.
- Factory-installed and non-removable. Refer to "Keying Hardware Options" on page 61.

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: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 configurations to your exact specifications.

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

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

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