

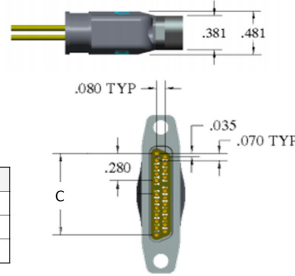


microSI™

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.

GENERAL DIMENSIONS



SIZE	A	B	C
1X	1.636	1.377	0.840
4X	2.266	2.007	1.470
8X	3.106	2.847	2.310

Sample Part Number Format: MMSI-01L-24B0-006-2810



SERIES
 Cable I/O (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

- 21 – Female, Twinax 100Ω 24 AWG
- 24 – Female, Twinax 100Ω 30 AWG

OVERALL****

- 0 – None
- 1 – Silver-plated braid
- 2 – Tin-plated braid
- 3 – Silver-plated braid, Halar® sleeving
- 4 – Tin-plated braid, Halar® sleeving
- 5 – Halar® sleeving (no braid)

WIRE LENGTH'
 Inches, 3 digits
 Ex. 018 = 18 inches

HARDWARE

- 620 – Fixed jacknut
- 810 – Turning jackscrews; captivated**
- NXX – Keying jacknuts***
- JXX – Keying jackscrews***

BODY PLATING, INTERNAL SOLDER

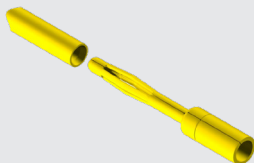
- 1 – Electroless nickel, SAC305
- 2 – Electroless nickel, Sn/Pb ☒
- 5 – Gold, SAC305
- 6 – Gold, Sn/Pb ☒

SIDEBAND WIRES (color code per MIL-STD-681)

- A – 22759/11-24
- B – 22759/11-26
- C – 22759/11-28
- D – 22759/33-24 ☒
- E – 22759/33-26 ☒
- F – 22759/33-28 ☒
- G – 22759/33-30 ☒
- H – NEMA HP3-EXBEB 24 AWG
- J – NEMA HP3-EXBDB 26 AWG
- K – NEMA HP3-EXBCB 28 AWG
- L – NEMA HP3-EXBBB 30 AWG

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

1. 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.
 2. 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