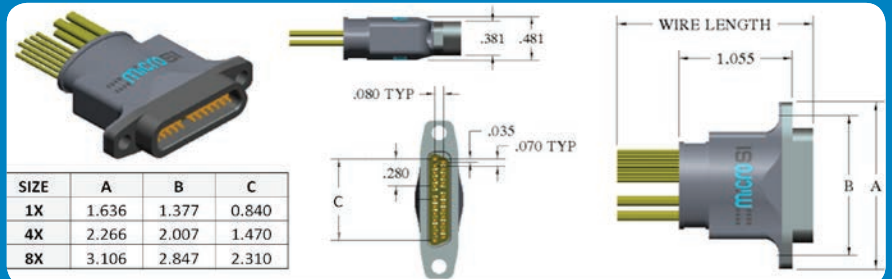




MMSI – Cable I/O (Female)

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



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

MMSI							
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 100Q 24 AWG 24 – Female, Twinax 100Q 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 ☒	SIDE BAND 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

- 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.
- ☒ 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