



N **NANO**
SERIES **0.025"**
(0.636 mm)

NMHT – I/O Cable (Male)

NMHT interconnects are used in high-temperature applications. These rugged cable connectors come with a variety of termination, hardware and wiring options. Custom lengths are available on wire termination products.

DIMENSIONS

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SIZE	A	B	C	E	J	HARDWARE	
9	.375	.270	.160				
15	.450	.345	.235				
21	.525	.420	.310				
25	.575	.470	.360				
31	.650	.545	.435	.1250	.0575	#0-80 THREAD	
37	.725	.620	.510				
51	.900	.795	.685				
65	1.075	.970	.860				
69	1.125	1.020	.910				

Please reference NTHM-DIM-1 for more detail.

ORDER FORM **Sample Part Number Format: NMHT-212-025-161-JCAC**

ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE
NMHT								
SERIES 0.025" Metal I/O Connector (Male)	ROWS 2 – 2-Row (9-69 contacts)	BODY STYLE 1 – Plug, straight with factory-installed backshell	BODY MATERIAL 2 – Liquid crystal polymer with electroless nickel shell 4 – Liquid crystal polymer with stainless steel shell	SIZE 009 – 9 Contacts 015 – 15 Contacts 021 – 21 Contacts 025 – 25 Contacts 031 – 31 Contacts 037 – 37 Contacts 051 – 51 Contacts 065 – 65 Contacts 069 – 69 Contacts	CONTACT/TERMINATION TYPE 16 – Pin, straight, crimped wire	PLATING 1 – 50 μ" Au contacts	HARDWARE 00 – No hardware JC – Turning jackscrews, captivated #0-80 UNF* TH – Threaded hole #0-80 UNF*	WIRING XX – See Wiring Codes

NOTES

- * 0.050 hex key (#0-80 thread)
- Recommended torque value: 1.0 inch-lbs max (#0-80 thread)
- Ball end hex wrench not recommended
- Hex wrench key/bit conforming to the requirements of ASME/ANSI B-18.3 is recommended
- 0.050" hex L-key long arm wrench: order AirBorn part #CDG14148

MATERIALS and FINISHES

Pins: BeCu alloy strip per ASTM B194
 Contact Finish: Gold plate per ASTM B488, SAE AMS-2422
 Shell: Aluminum with electroless nickel per SAE AMS-C-26074, or 303 stainless steel per ASTM A581/A581M or ASTM A582/A582M, passivated per SAE AMS-2700
 Molded Insulators: High-temp thermoplastic
 Embedment: High-temp epoxy
 Hardware: Corrosion-resistant steel per ASTM A582/A582M, passivated per ASTM A967, SAE AMS-QQ-P-35
 Tolerances (unless otherwise specified): Angles: ±2°
 Decimals: ±0.005"
 Wire lengths – insulated/stranded: +1.0"/-0.0"
 uninsulated/solid: +0.2"/-0.0"

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

NMHT-212-025-161-JCAC

3-Tine Spring Member, Crimp (PIN)

PERFORMANCE

Contact Rating: 1 ampere maximum
 Solderability: Terminals (except crimp) tested per MIL-STD-202, Method 28
 Wire Size: Stranded #30 & #32 AWG or solid #30 AWG standard (consult factory for other sizes and types)
 Test Voltage: 250V, RMS, 60Hz
 Operating Temperature: -55° C to 205° C
 Insulation Resistance: 5,000 megohms minimum @ 100 VDC
 Durability: 200 connector mating cycles
 Vibration: Tested per MIL-STD-1344, Method 2005, Cond. IV
 Shock: Tested per MIL-STD-1344, Method 2004, Cond. G
 Salt Spray: Tested (mated) per MIL-STD-1344, Method 1001, Cond. B
 Humidity: Tested (mated) per MIL-STD-1344, Method 1002, Type II (except steps 7a and 7b)
 Thermal Shock: Tested to temperature extremes of MIL-STD-1344, Method 1003, Cond. A (except step 3, temperature shall be 125° C)
 Contact Resistance: 0.022 V max drop at 1.0 amps (0.022 ohms)
 Contact Engaging Force: 5.0 ounce max with minimum diameter test sleeve
 Contact Separating Force: 0.4 ounce min with minimum diameter test sleeve
 Crimp Strength: 1 pound min tensile strength