



M MICRO
SERIES 0.050"
(1.27 mm)

MQHT – Low-Profile I/O Cable (Male)

MQHT interconnects are used in high-temperature applications. These low-profile 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	ROWS	A	B (MAX)	C	D
9	2	.778	.292	.398	.565
15		.928	.442	.548	.715
21		1.078	.592	.698	.865
25		1.178	.692	.798	.965
31		1.328	.842	.948	1.115
37	3	1.478	.992	1.098	1.265
51		1.428	.942	1.048	1.215

Please reference MQHTM-DIM-1 for more detail.

ORDER FORM Sample Part Number Format: MQHT-212-031-161-41WS

ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE
MQHT								
SERIES 0.050" Low-Profile Metal I/O Connector (Male)	ROWS 2 – 2-Row (9-37 contacts) 3 – 3-Row (51 contacts)	BODY STYLE 1 – Plug	BODY MATERIAL 2 – High-temp thermoplastic with electroless nickel shell 4 – High-temp thermoplastic with hard black anodized shell 5 – High-temp 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	CONTACT/TERMINATION TYPE 11 – Pin, straight, 26 awg solder cup 1A – Pin, straight, 24 awg solder cup 1E – Pin, straight, 0.125" lead length† 13 – Pin, straight, 0.250" lead length† 14 – Pin, straight, 0.500" lead length† 16 – Pin, straight, crimped wire	PLATING 1 – 50 μ" Au contacts (crimp wire) 3 – 50 μ" Au contacts; Au terminations (solder cup, pigtail)	HARDWARE 00 – No hardware 22 – Two fixed jacknut assemblies 41 – Two turning jackscrews, allen head, retaining ring 42 – Two long turning jackscrews, allen head, retaining ring 43 – Two turning jackscrews, slot head, retaining ring 44 – Two long turning jackscrews, slot head, retaining ring 45 – Two turning jackscrews, allen head, captivated** FF – Float-mount: front panel mounting FR – Float-mount: rear panel mounting	WIRING 00 – None XX – See Wiring Codes

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

NOTES

- * 0.018 diameter
- ** Captivated hardware is factory-installed and non-removable
- † Leads are soft copper, suitable for forming.

MQHT-212-031-161-41WS

High-Reliability Contact
MIL-DTL-83513

MATERIALS and FINISHES

Pin Contacts: Copper-based alloy strip
 Contact Finish: Gold plate per ASTM B488, SAE AMS-2422
 Shells: Aluminum alloy 6061-T6 per SAE AMS-QQ-A-250/11 or 6061-T6511 per SAE AMS-QQ-A-200/8
 Shell Finishes: Electroless nickel per SAE AMS-2402, Class 3, 500 μ" minimum or black anodized per MIL-A-8625, Type III Class 2, 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: Angles: ±5°
 (unless otherwise specified) Decimals: ±0.010"; Fractions: ±1/64"
 Wire lengths – insulated/stranded: +1.0/-0.0" insulated/solid: +0.02/-0.0"

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

PERFORMANCE

Contact Rating: 3 amperes maximum
 Operating Temperature: -55° C to 205° C
 Test Voltage: 600V, 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