Cable to Board (Narrow Footprint)

.050"

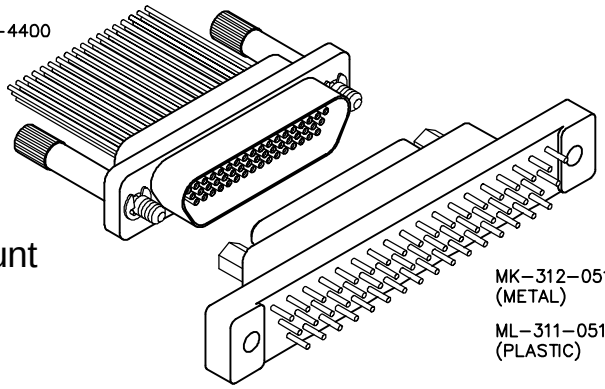
9 thru 100 Contacts

Rugged Cable — **MM, MN**

Rugged Board Mount — **MK, ML**

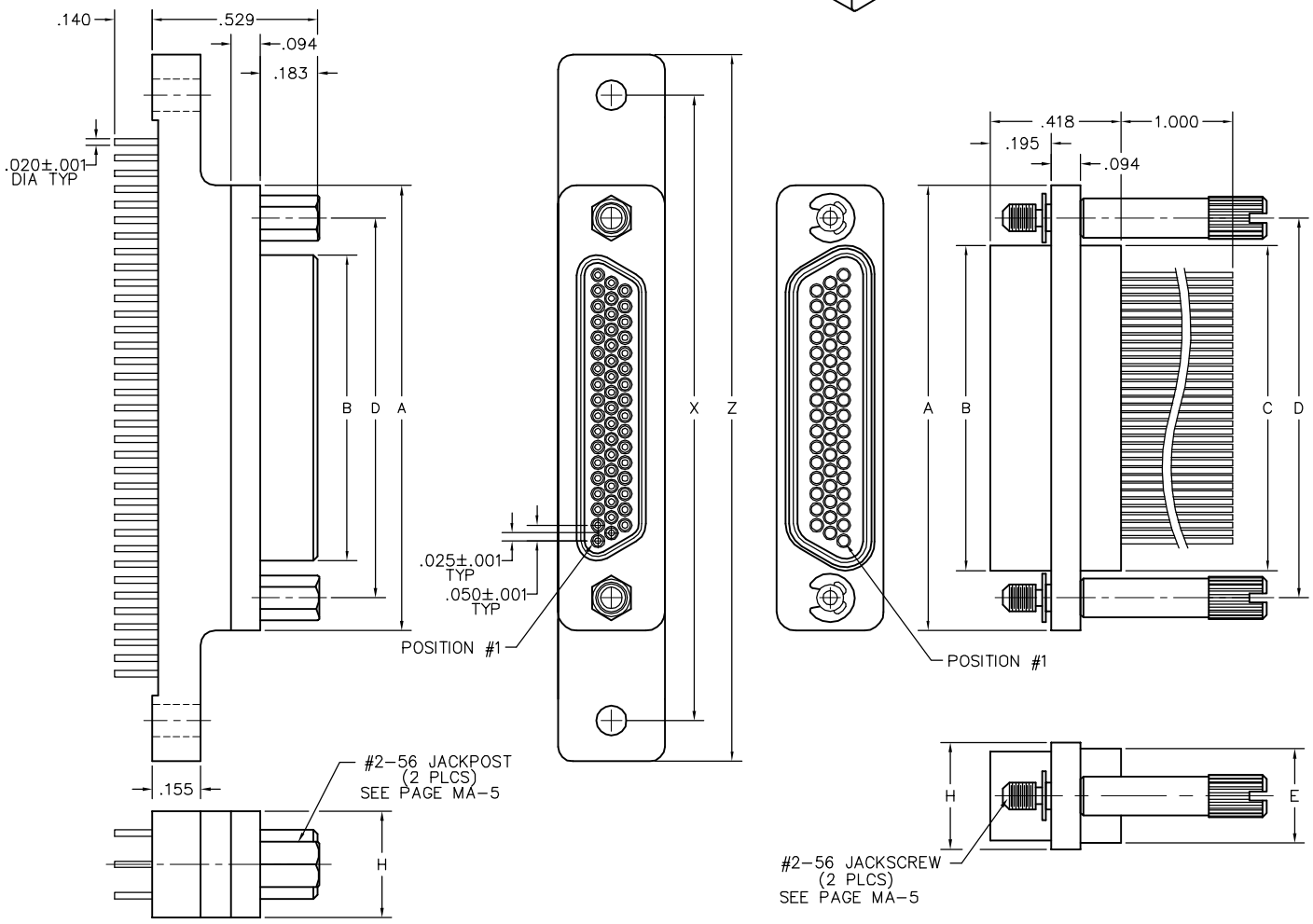
MM–322–051–253–4400
(METAL)

MN–321–051–253–4400
(PLASTIC)



MK–312–051–135–2200
(METAL)

ML–311–051–135–2200
(PLASTIC)



PLUG

RECEPTACLE

DIMENSIONS												
SIZE	CONTACT ROWS	A	B PLUG MAX	B RCPT MAX	C	D	E POTTING WELL MAX	H	X	Z MAX	HARDWARE	MOUNTING HOLE
9	2	.775	.334	.400	.390	.565	.270	.298	1.150	1.390	#2–56 UNC THD	.096 DIA OR #2–56 UNC THREADED INSERT
15		.925	.484	.550	.540	.715						
21		1.075	.634	.700	.690	.865			1.450	1.690		
25		1.175	.734	.800	.790	.965			1.500	1.740		
31		1.325	.884	.950	.940	1.115			1.800	2.040		
37		1.475	1.034	1.100	1.090	1.265			2.100	2.340		
51	3	1.425	.984	1.050	1.040	1.215	.310	.341	2.000	2.270		
100	4	2.160	1.384	1.508	1.432	1.800	.360	.384	2.800	3.240	#4–40 UNC THD	.125 DIA OR #2–56 UNC THREADED INSERT

AirBorn

PLUG: MK–312–051–135–2200
RECEPTACLE: MM–322–051–253–4400
PLUG: ML–311–051–135–2200
RECEPTACLE: MN–321–051–253–4400

PLUG	RECEPTACLE	XX–XXX–XXX–XXX–XXXX–XXX

SERIES

PLUG	RECEPTACLE
MK .050" Rugged Metal PC Board Mount Connector ML .050" Rugged Plastic PC Board Mount Connector (MK & ML mate with MK, ML, MM, MN receptacles)	MM .050" Rugged Metal I/O Connector MN .050" Rugged Plastic I/O Connector (MM & MN mate with MK, ML, MM, MN plugs)

BODY

PLUG	RECEPTACLE
2 2-Row (Sizes 9 thru 37) 3 3-Row (Size 51) 4 4-Row (Size 100)	2 2-Row (Sizes 9 thru 37) 3 3-Row (Size 51) 4 4-Row (Size 100)
BODY STYLE: 1 Plug, straight, narrow footprint, w/ mtg holes	BODY STYLE: 2 Receptacle, straight, with ears
BODY MATERIAL: 1 Polyphenylene Sulfide (ML only) 2 Polyphenylene Sulfide with electroless nickel shell 3 Polyphenylene Sulfide with electrodeposited cadmium shell ☒ 4 Polyphenylene Sulfide with hard anodized black shell 5 Polyphenylene Sulfide with stainless steel shell	BODY MATERIAL: 1 Polyphenylene Sulfide (MN only) 2 Polyphenylene Sulfide with electroless nickel shell 3 Polyphenylene Sulfide with electrodeposited cadmium shell ☒ 4 Polyphenylene Sulfide with hard anodized black shell 5 Polyphenylene Sulfide with stainless steel shell

SIZE

PLUG	RECEPTACLE
XXX 009, 015, 021, 025, 031, 037, 051, 100	XXX 009, 015, 021, 025, 031, 037, 051, 100

CONTACTS

PLUG	RECEPTACLE
TYPE CONTACTS/TERMINATIONS: 12 Pin, straight, PCB leads, .109" 13 Pin, straight, PCB leads, .140" 14 Pin, straight, PCB leads, .172"	TYPE CONTACTS/TERMINATIONS: 21 Socket, straight, solder cup 24 Socket, straight, .500" pigtails (.018 dia) 25 Socket, straight, 1.000" pigtails (.018 dia) 26 Socket, straight, crimped wire
PLATING OPTIONS: 3 50 µ" Au contacts: 10 µ" Au terminations 5 50 µ" Au contacts; Sn/Pb alloy terminations ☒ 7 50 µ" Au contacts; SAC305 terminations	PLATING OPTIONS: 1 50 µ" Au contacts (crimp wire) 3 50 µ" Au contacts: 10 µ" Au terminations (solder cup, pigtail) 5 50 µ" Au contacts; Sn/Pb alloy terminations (pigtail) ☒ 7 50 µ" Au contacts; SAC305 terminations (pigtail)

HARDWARE

PLUG	RECEPTACLE
STYLE OF HARDWARE: 00 None 22 Two fixed jacknut assemblies (62*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only)	STYLE OF HARDWARE: 00 None 22 Two fixed jacknut assemblies (62*) 41 Two turning jackscrews, allen head, retaining ring (81*) 42 Two long turning jackscrews, allen head, retaining ring (82*) 43 Two turning jackscrews, slot head, retaining ring (83*) 44 Two long turning jackscrews, slot head, retaining ring (84*) 45 Two turning jackscrews, allen head, captivated** (85*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only)
POLARIZATION / WIRING: 00 None	POLARIZATION / WIRING 00 None XX For wiring codes, see page MA-3 & MA-4

OPTIONS

PLUG	RECEPTACLE
KPXX Two fixed jacknuts. See page MA-6 for keying options (KN*) 0B7 Threaded inserts	KSXX Two turning jackscrews and interfacial sealing gasket. See page MA-6 for keying options (KJ*) 900 Interfacial sealing gasket

* = Use numbers or letters in parenthesis when ordering size 100.
** = Captive hardware is factory installed and non-removable.
☒ = Option not RoHS compliant

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