



Cable to Board (Narrow Footprint)

.050"

9 thru 100 Contacts

Rugged Cable

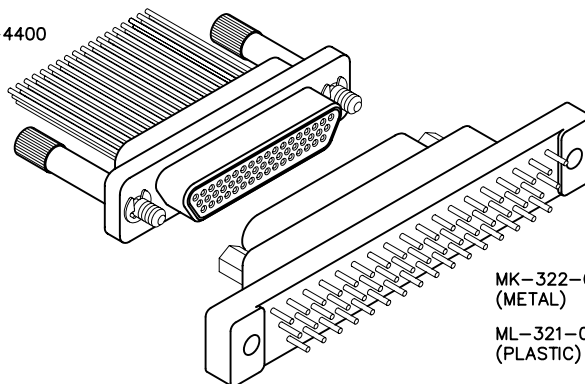
MM, MN

Rugged Board Mount

MK, ML

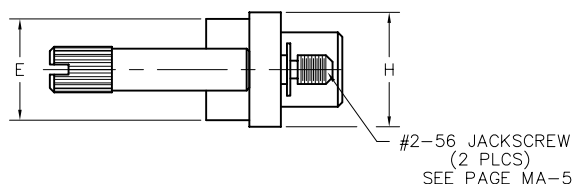
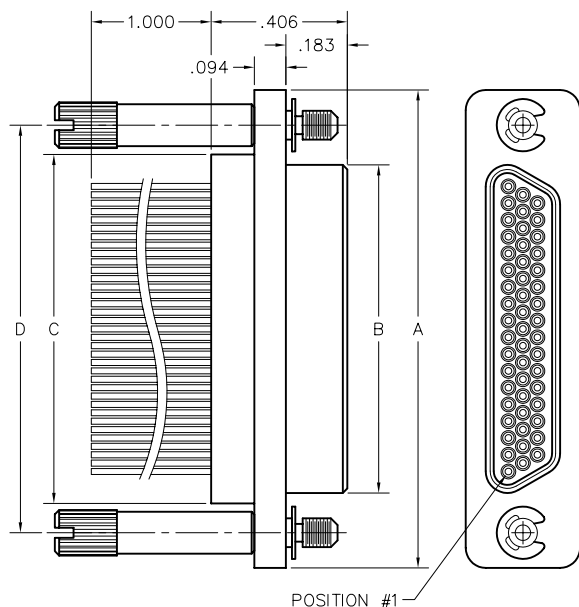
MM-312-051-153-4400
(METAL)

MN-311-051-153-4400
(PLASTIC)

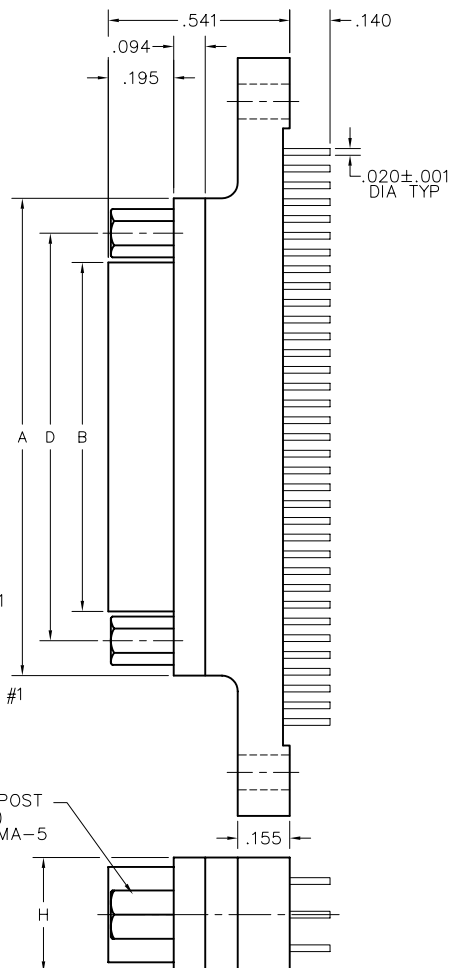
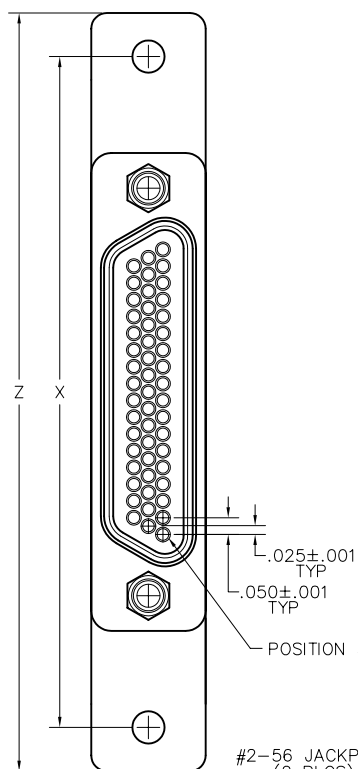


MK-322-051-235-2200
(METAL)

ML-321-051-235-2200
(PLASTIC)



PLUG



RECEPTACLE

DIMENSIONS												
SIZE	CONTACT ROWS	A	B		C	D	E	H	X	Z	HARDWARE	MOUNTING HOLE
			PLUG MAX	RCPT MAX			POTTING WELL MAX			MAX		
9	2	.775	.334	.400	.390	.565	.270	.298	1.150	1.390	#2-56 UNC THD (.092 DIA THRU)	.096 DIA OR #2-56 UNC THREADED INSERT
15		.925	.484	.550	.540	.715			1.450	1.690		
21		1.075	.634	.700	.690	.865			1.500	1.740		
25		1.175	.734	.800	.790	.965			1.800	2.040		
31		1.325	.884	.950	.940	1.115			2.100	2.340		
37	3	1.475	1.034	1.100	1.090	1.265	.310	.341	2.000	2.270	#4-40 UNC THD (.147 DIA THRU)	.125 DIA OR #2-56 UNC THREADED INSERT
51		1.425	.984	1.050	1.040	1.215			2.800	3.240		
100		2.160	1.384	1.508	1.432	1.800						

PLUG: MM-312-051-153-4400

RECEPTACLE: MK-322-051-235-2200

PLUG: MN-311-051-153-4400

RECEPTACLE: ML-321-051-235-2200

XX-XXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

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

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

SIZE	
XXX 009, 015, 021, 025, 031, 037, 051, 100	XXX 009, 015, 021, 025, 031, 037, 051, 100

CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
11 Pin, straight, solder cup	22 Socket, straight, PCB leads, .109"
14 Pin, straight, .500" pigtails (.018 dia)	23 Socket, straight, PCB leads, .140"
15 Pin, straight, 1.000" pigtails (.018 dia)	24 Socket, straight, PCB leads, .172"
16 Pin, straight, crimped wire	
PLATING OPTIONS:	PLATING OPTIONS:
1 50 μ" Au contacts (crimp wire)	3 50 μ" Au contacts; 10 μ" Au terminations
3 50 μ" Au contacts; 10 μ" Au terminations (solder cup, pigtail)	5 50 μ" Au contacts; Sn/Pb alloy terminations ☒
5 50 μ" Au contacts; Sn/Pb alloy terminations (pigtail) ☒	7 50 μ" Au contacts; SAC305 terminations
7 50 μ" Au contacts; SAC305 terminations (pigtail)	

HARDWARE	
STYLE OF HARDWARE:	STYLE OF HARDWARE:
00 None	00 None
22 Two fixed jacknut assemblies (62*)	22 Two fixed jacknut assemblies (62*)
41 Two turning jackscrews, allen head, retaining ring (81*)	99 Keying hardware, see options below (Body material 2, 3 and 4 only)
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:	POLARIZATION / WIRING
00 None	00 None
XX For wiring codes, see page MA-3 & MA-4	

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