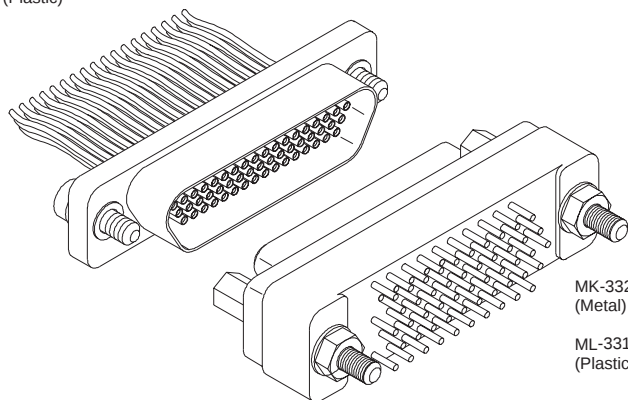


MM-322-051-261-45WP
(Metal)

MN-321-051-261-45WP
(Plastic)



MK-332-051-145-2200
(Metal)

ML-331-051-145-2200
(Plastic)

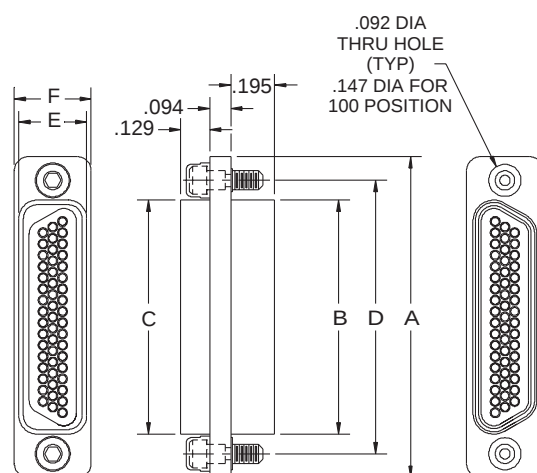
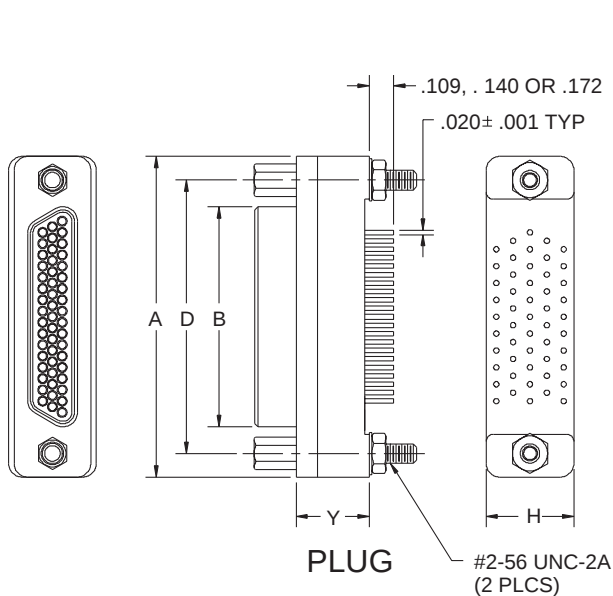
**Cable
to Board**
(Standard Footprint)

.050"
Rugged Cable

MM, MN

.050"
Rugged Board

MK, ML



RECEPTACLE

DIMENSIONS											
SIZE	CONTACT ROWS	A	B		C	D	E POTTING WELL MAX	F	H MAX	Y MAX	HARDWARE
			PLUG MAX	RCPT MAX							
9	2	.775	.334	.400	.390	.565	.270	.298	.298	.330	2-56 UNC THREAD
15		.925	.484	.550	.540	.715					
21		1.075	.634	.700	.690	.865					
25		1.175	.734	.800	.790	.965					
31		1.325	.884	.950	.940	1.115					
37		1.475	1.034	1.100	1.090	1.265					
51	3	1.425	.984	1.050	1.040	1.215	.310	.341	.390	.325	4-40 UNC THREAD
100	4	2.160	1.384	1.508	1.432	1.800	.360	.384	.490	.381	

PLUG: MM-312-051-161-22WP
RECEPTACLE: MK-342-051-245-2200-900
PLUG: MN-311-051-161-22WP
RECEPTACLE: ML-341-051-245-2200-900

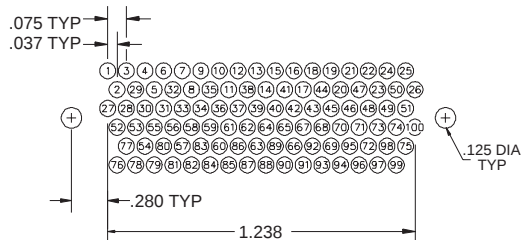
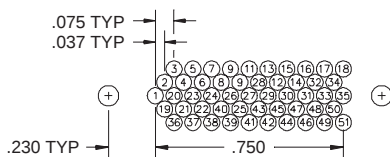
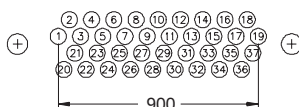
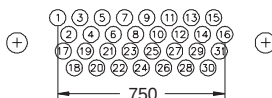
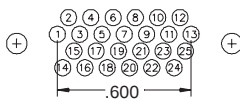
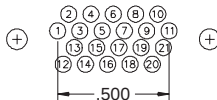
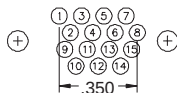
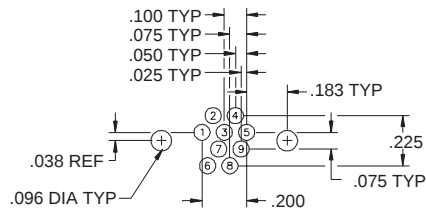
PLUG		RECEPTACLE	
SERIES			
MM .050" Rugged Metal I/O Connector	MK .050" Rugged Metal PC Board Mounted Connector		
MN .050" Rugged Plastic I/O Connector	ML .050" Rugged Plastic PC Board Mounted Connector		
NOTE: MM and MN mates with MK, ML, MM, MN receptacles		NOTE: MK and ML mates with MK, ML, MM, MN plugs	
BODY			
2 2-Row	2 2-Row		
3 3-Row	3 3-Row		
4 4-Row	4 4-Row		
1 BODY STYLE: Plug, straight, with ears	4 BODY STYLE: Receptacle, straight, standard footprint, w/mtnng holes		
1 BODY MATERIAL: Polyphenylene Sulfide (MN only)	1 BODY MATERIAL: 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		
NOTE: Check with factory for other materials.			
SIZE			
XXX No. of Contacts: 9, 15, 21, 25, 31, or 37 (2-rows)	XXX No. of Contacts: 9, 15, 21, 25,31, or 37 (2-rows)		
051 51 contacts (3-rows)	051 51 contacts (3-rows)		
100 100 contacts (4-rows)	100 100 contacts (4-rows)		
NOTE: Other sizes available; check with factory.			
NUMBER OF CONTACTS			
11 TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup	22 TYPE CONTACTS/TERMINATIONS: Socket, straight,dip solder, .109"		
14 Pin, straight, .500" pigtails	23 Socket, straight, sip solder, .140"		
15 Pin, straight, 1.000" pigtails	24 Socket, straight, dip solder, .172"		
16 Pin, straight, crimped wire			
1 PLATING OPTIONS: 50 μ" Au contacts (crimp wire)	5 PLATING OPTIONS: 50 μ" Au contacts; 100 μ" Sn terminations		
3 50 μ" Au contacts; 10 μ" Au terminations (solder cup, pigtail)			
5 50 μ" Au contacts; 100 μ" Sn terminations (pigtail)			
TYPE OF HARDWARE			
00 STYLE OF HARDWARE: None	00 STYLE OF HARDWARE: None		
22 Two fixed jacknut assemblies (62)*	22 Two fixed jacknut assemblies (62)*		
41 Two turning jackscrews, Allen head, retaining ring (81)*	41 Two turning jackscrews, Allen head, retaining ring (81)*		
42 Two long turning jackscrews, Allen head, retaining ring (82)*	43 Two turning jackscrews, slot heat, retaining ring (83)*		
43 Two turning jackscrews, slot heat,retaining ring (83)*	45 Two turning jackscrews, Allen head, captivated** (85)*		
44 Two long turning jackscrews, slot head, retaining ring (84)*			
45 Two turning jackscrews, Allen head,captivated** (85)*			
00 POLARIZATION/WIRING: NONE	00 POLARIZATION: NONE, Straight body style only		
Wx For wiring codes, see page M-53.			
OPTIONS			
	900 At end of part number indicates addition of interfacial sealing gasket (receptacle only).		

*Use number in parentheses when ordering 100 size only.
**Captive hardware is factory installed and non-removable.

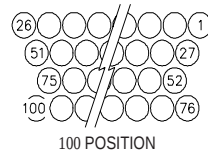
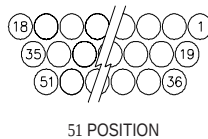
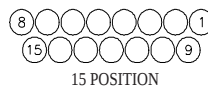
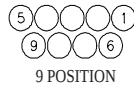
Recommended PC Board Layout

Straight Standard Footprint

PLUG PC BOARD LAYOUT COMPONENT SIDE

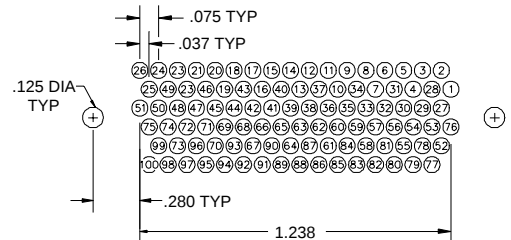
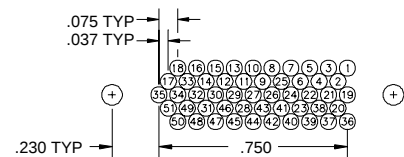
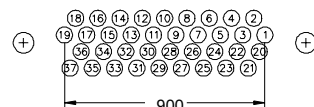
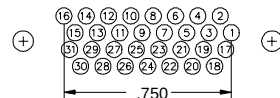
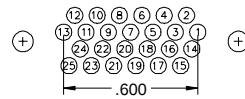
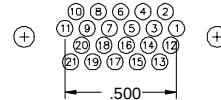
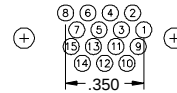
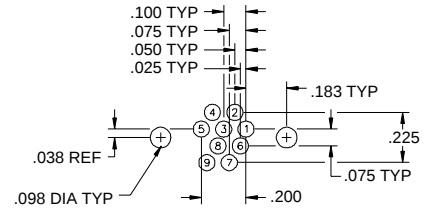


*CONNECTOR MATING FACE (RECEPTACLE)



* For pin (plug) connectors, the contact numbers are reversed (left to right)

RECEPTACLE PC BOARD LAYOUT COMPONENT SIDE



MIL-C-83513 Wire Codes

WIRE CODE MIL-SPEC DESCRIPTION

V1	M22759/11-26-(), 18" long, color per MIL-C-83513
V2	M22759/11-26-(), 36" long, color per MIL-C-83513
W1	M22759/11-26-9, 18" long
W2	M22759/11-26-9, 36" long
W3	M22759/11-26-(), 18" long
W4	M22759/11-26-(), 36" long
Y1	M22759/33-26-9, 18" long
Y2	M22759/33-26-9, 36" long
Y3	M22759/33-26-(), 18" long, color per MIL-C-83513
Y4	M22759/33-26-(), 36" long, color per MIL-C-83513

WIRE CODE MIL-SPEC DESCRIPTION

X1	M22759/11-26-9, 6" long
X2	M22759/11-26-9, 12" long
X3	M22759/11-26-(), 6" long
X4	M22759/11-26-(), 12" long
Y5	M22759/11-26-9, 72" long
Y6	M22759/11-26-(), 72" long, color per MIL-C-83513
Y7	M22759/11-26-(), 72" long, color per MIL-C-83513
Y8	M22759/33-26-(), 72" long, color per MIL-C-83513

AirBorn Standard Wire Codes (In accordance with MIL-W-16878)

WIRE CODE	WIRE SIZE	WIRE TYPE	WIRE COLOR	WIRE LENGTH Standard: + 1.0" - 0.0"
WA	24 awg	TFE 7-strand E	Per MIL-STD-681	6"
WB	24 awg	TFE 7-strand E	Per MIL-STD-681	12"
WC	24 awg	TFE 7-strand E	Per MIL-STD-681	18"
WD	24 awg	TFE 7-strand E	Per MIL-STD-681	36"
WE	24 awg	TFE 7-strand E	White	6"
WF	24 awg	TFE 7-strand E	White	12"
WG	24 awg	TFE 7-strand E	White	18"
WH	24 awg	TFE 7-strand E	White	36"
WJ	24 awg	TFE 7-strand E	Yellow	6"
WK	24 awg	TFE 7-strand E	Yellow	12"
WJ	24 awg	TFE 7-strand E	Yellow	18"
WM	24 awg	TFE 7-strand E	Yellow	36"
WN	26 awg	TFE 7-strand E	Per MIL-STD-681	6"
WP	26 awg	TFE 7-strand E	Per MIL-STD-681	12"
WQ	26 awg	TFE 7-strand E	Per MIL-STD-681	18"
WR	26 awg	TFE 7-strand E	Per MIL-STD-681	36"
WS	26 awg	TFE 7-strand E	White	6"
WT	26 awg	TFE 7-strand E	White	12"
WU	26 awg	TFE 7-strand E	White	18"
WV	26 awg	TFE 7-strand E	White	36"
WW	26 awg	TFE 7-strand E	Yellow	6"
WX	26 awg	TFE 7-strand E	Yellow	12"
WY	26 awg	TFE 7-strand E	Yellow	18"
WZ	26 awg	TFE 7-strand E	Yellow	36"
XA	28 awg	TFE 7-strand E	Per MIL-STD-681	6"
XB	28 awg	TFE 7-strand E	Per MIL-STD-681	12"
XC	28 awg	TFE 7-strand E	Per MIL-STD-681	18"
XD	28 awg	TFE 7-strand E	Per MIL-STD-681	36"
XE	28 awg	TFE 7-strand E	White	6"
XF	28 awg	TFE 7-strand E	White	12"
XG	28 awg	TFE 7-strand E	White	18"
XH	28 awg	TFE 7-strand E	White	36"
XJ	28 awg	TFE 7-strand E	Yellow	6"
XK	28 awg	TFE 7-strand E	Yellow	12"
XL	28 awg	TFE 7-strand E	Yellow	18"
XM	28 awg	TFE 7-strand E	Yellow	36"