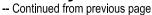
Military Cross Reference Chart





M83513 / 04-H09C	MM-423-100-261-00Y1-900
M83513 / 04-H09N	MM-422-100-261-00Y1-900
M83513 / 04-H09P	MM-425-100-261-00Y1-900
M83513 / 04-H10C	MM-423-100-261-00Y2-900
M83513 / 04-H10N	MM-422-100-261-00Y2-900
M83513 / 04-H10P	MM-425-100-261-00Y2-900
M83513 / 04-H11C	MM-423-100-261-00Y3-900
M83513 / 04-H11N	MM-422-100-261-00Y3-900

MM-425	-100-261 - 00Y3-900
MM-423-	-100-261-00Y4-900
MM-422	-100-261 - 00Y4-900
MM-425	-100-261-00Y4-900
MM-423-	-100-261-00Y5-900
MM-422	-100-261-00Y5-900
MM-425	-100-261-00Y5-900
MM-423-	-100-261 - 00Y6-900

M83513 / 04-H14N
M83513 / 04-H14P
M83513 / 04-H15C
M83513 / 04-H15N
M83513 / 04-H15P
M83513 / 04-H16C
M83513 / 04-H16N
M83513 / 04-H16P

MM-422-100-261-00Y6-900 MM-425-100-261-00Y6-900 MM-423-100-261-00Y7-900 MM-422-100-261-00Y7-900 MM-425-100-261-00Y7-900 MM-423-100-261-00Y8-900 MM-422-100-261-00Y8-900 MM-425-100-261-00Y8-900

M83513	/ (05
--------	-----	----

11100010100	
M83513 / 05-02	00-000-000-000-4100
M83513 / 05-03	00-000-000-000-4200
M83513 / 05-05	00-000-000-000-4300
M83513 / 05-06	00-000-000-000-4400
M83513 / 05-07	00-000-000-000-2200
M83513 / 05-12	00-000-000-000-8100
M83513 / 05-13	00-000-000-000-8200
M83513 / 05-15	00-000-000-000-8300
M83513 / 05-16	00-000-000-000-8400
M83513 / 05-17	00-000-000-000-6200

MP-211-009-161-00W1

MP-211-009-161-00W2

MP-211-009-161-00V1

MP-211-015-161-00Y8

M83513 / 06 M83513 / 06-A

100001070071	1411
M83513 / 06-B	MP
M83513 / 06-C	MP
M83513 / 06-D	MP
M83513 / 06-E	MP
M83513 / 06-F	MP
M83513 / 06-G	MP

MP-211-009-113-0000 MP-211-015-113-0000 MP-211-021-113-0000 MP-211-025-113-0000 MP-211-031-113-0000 MP-211-037-113-0000 MP-311-051-113-0000

M83513 / 07 -

M83513 / 07-A	MP-221-009-213-0000
M83513 / 07-B	MP-221-015-213-0000
M83513 / 07-C	MP-221-021-213-0000
M83513 / 07-D	MP-221-025-213-0000
M83513 / 07-E	MP-221-031-213-0000
M83513 / 07-F	MP-221-037-213-0000
M83513 / 07-G	MP-321-051-213-0000

M83513 / 08 • M83513 / 08-A01

M83513 / 08-A02

M83513 / 08-A03

M83513 / 08-A04	MP-211-009-161-00V2
M83513 / 08-A05	MP-211-009-143-0000
M83513 / 08-A06	MP-211-009-153-0000
M83513 / 08-A07	MP-211-009-145-0000
M83513 / 08-A08	MP-211-009-155-0000
M83513 / 08-A09	MP-211-009-161-00Y1
M83513 / 08-A10	MP-211-009-161-00Y2
M83513 / 08-A11	MP-211-009-161-00Y3
M83513 / 08-A12	MP-211-009-161-00Y4
M83513 / 08-A13	MP-211-009-161-00Y5
M83513 / 08-A14	MP-211-009-161-00Y6
M83513 / 08-A15	MP-211-009-161-00Y7
M83513 / 08-A16	MP-211-009-161-00Y8
M83513 / 08-B01	MP-211-015-161-00W1
	=
M83513 / 08-B02	MP-211-015-161-00W2
	MP-211-015-161-00W2 MP-211-015-161-00V1
M83513 / 08-B02	=
M83513 / 08-B02 M83513 / 08-B03	MP-211-015-161-00V1
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04	MP-211-015-161-00V1 MP-211-015-161-00V2
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08 M83513 / 08-B09	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000 MP-211-015-161-00V1
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08 M83513 / 08-B09 M83513 / 08-B10	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000 MP-211-015-161-00Y1 MP-211-015-161-00Y2
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08 M83513 / 08-B09 M83513 / 08-B10 M83513 / 08-B10	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000 MP-211-015-161-00Y1 MP-211-015-161-00Y2 MP-211-015-161-00Y3
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08 M83513 / 08-B09 M83513 / 08-B10 M83513 / 08-B11 M83513 / 08-B11	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000 MP-211-015-161-00Y1 MP-211-015-161-00Y2 MP-211-015-161-00Y3 MP-211-015-161-00Y4 MP-211-015-161-00Y5 MP-211-015-161-00Y6
M83513 / 08-B02 M83513 / 08-B03 M83513 / 08-B04 M83513 / 08-B05 M83513 / 08-B06 M83513 / 08-B07 M83513 / 08-B08 M83513 / 08-B09 M83513 / 08-B10 M83513 / 08-B11 M83513 / 08-B11 M83513 / 08-B12 M83513 / 08-B12	MP-211-015-161-00V1 MP-211-015-161-00V2 MP-211-015-143-0000 MP-211-015-153-0000 MP-211-015-145-0000 MP-211-015-155-0000 MP-211-015-161-00Y1 MP-211-015-161-00Y2 MP-211-015-161-00Y3 MP-211-015-161-00Y4 MP-211-015-161-00Y5

M83513 / 08-C01 M83513 / 08-C02 M83513 / 08-C03 M83513 / 08-C05 M83513 / 08-C05 M83513 / 08-C06 M83513 / 08-C07 M83513 / 08-C08 M83513 / 08-C09 M83513 / 08-C10 M83513 / 08-C11 M83513 / 08-C11 M83513 / 08-C12 M83513 / 08-C13 M83513 / 08-C14 M83513 / 08-C14	MP-211-021-161-00W1 MP-211-021-161-00W2 MP-211-021-161-00V1 MP-211-021-161-00V2 MP-211-021-153-0000 MP-211-021-155-0000 MP-211-021-155-0000 MP-211-021-161-00Y1 MP-211-021-161-00Y2 MP-211-021-161-00Y3 MP-211-021-161-00Y4 MP-211-021-161-00Y5 MP-211-021-161-00Y5 MP-211-021-161-00Y6 MP-211-021-161-00Y7
M83513 / 08-C16 M83513 / 08-D01	MP-211-021-161-00Y8 MP-211-025-161-00W1
M83513 / 08-D02	MP-211-025-161-00W2
M83513 / 08-D03	MP-211-025-161-00V1
M83513 / 08-D04	MP-211-025-161-00V2
M83513 / 08-D05	MP-211-025-143-0000
M83513 / 08-D06	MP-211-025-153-0000
M83513 / 08-D07	MP-211-025-145-0000
M83513 / 08-D08	MP-211-025-155-0000
M83513 / 08-D09	MP-211-025-161-00Y1
M83513 / 08-D10	MP-211-025-161-00Y2
M83513 / 08-D11	MP-211-025-161-00Y3
M83513 / 08-D12	MP-211-025-161-00Y4
M83513 / 08-D13	MP-211-025-161-00Y5

M83513 / 08-E01	MP-211-031-161-00W1
M83513 / 08-E02	MP-211-031-161-00W2
M83513 / 08-E03	MP-211-031-161-00V1
M83513 / 08-E04	MP-211-031-161-00V2
M83513 / 08-E05	MP-211-031-143-0000
M83513 / 08-E06	MP-211-031-153-0000
M83513 / 08-E07	MP-211-031-145-0000
M83513 / 08-E08	MP-211-031-155-0000
M83513 / 08-E09	MP-211-031-161-00Y1
M83513 / 08-E10	MP-211-031-161-00Y2
M83513 / 08-E11	MP-211-031-161-00Y3
M83513 / 08-E12	MP-211-031-161-00Y4
M83513 / 08-E13	MP-211-031-161-00Y5
M83513 / 08-E14	MP-211-031-161-00Y6
M83513 / 08-E15	MP-211-031-161-00Y7
M83513 / 08-E16	MP-211-031-161-00Y8
M83513 / 08-F01	MP-211-037-161-00W1
M83513 / 08-F02	MP-211-037-161-00W2
M83513 / 08-F03	MP-211-037-161-00V1
M83513 / 08-F04	MP-211-037-161-00V2
M83513 / 08-F05	MP-211-037-143-0000
M83513 / 08-F06	MP-211-037-153-0000
M83513 / 08-F07	MP-211-037-145-0000

M83513 / 08-F08

M83513 / 08-F09

M83513 / 08-F10

M83513 / 08-F11

M83513 / 08-F12

M83513 / 08-F13

M83513 / 08-F14

M83513 / 08-F15

M83513 / 08-F16

M83513 / 08-D14

M83513 / 08-D15

M83513 / 08-D16

MP-211-025-161-00Y6

MP-211-025-161-00Y7

MP-211-025-161-00Y8

MP-211-037-155-0000

MP-211-037-161-00Y1

MP-211-037-161-00Y2

MP-211-037-161-00Y3

MP-211-037-161-00Y4

MP-211-037-161-00Y5

MP-211-037-161-00Y6

MP-211-037-161-00Y7 MP-211-037-161-00Y8

M83513 / 08-B16



PLUG: MM-212-031-161-41WA
RECEPTACLE: MM-222-031-263-4500
PLUG: MN-211-031-161-41WA
RECEPTACLE: MN-221-031-263-4500

PLUG RECEPTACLE XX-XXX-XXX-XXX-XXXX **SERIES** MM .050" Rugged Metal I/O Connector MM .050" Rugged Metal I/O Connector MN .050" Rugged Plastic I/O Connector MN .050" Rugged Plastic I/O Connector (MM & MN mate with MK, ML, MM, MN receptacles) (MM & MN mate with MK, ML, MM, MN plugs) BODY 2-Row (Sizes 9 thru 51****) 2-Row (Sizes 9 thru 51****) 3-Row (Size 51 & 69***) 3-Row (Size 51 & 69***) 4-Row (Size 100) 4 4-Row (Size 100) BODY STYLE: BODY STYLE: Plug, straight, with ears Receptacle, straight, with ears BODY MATERIAL: BODY MATERIAL: Polyphenylene Sulfide (MN only) Polyphenylene Sulfide (MN only) Polyphenylene Sulfide with electroless nickel shell Polyphenylene Sulfide with electroless nickel shell Polyphenylene Sulfide with electrodeposited Polyphenylene Sulfide with electrodeposited cadmium shell cadmium shell Polyphenylene Sulfide with hard anodized Polyphenylene Sulfide with hard anodized black shell black shell Polyphenylene Sulfide with stainless steel shell Polyphenylene Sulfide with stainless steel shell XXX 009, 015, 021, 025, 031, 037, 051****, 069***, 100 XXX 009, 015, 021, 025, 031, 037, 051****, 069***, 100 CONTACTS TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: Pin, straight, 26 awg solder cup Socket, straight, 26 awg solder cup Pin, straight, 24 awg solder cup Socket, straight, 24 awg solder cup Pin, straight, .109" Lead Length (.018 dia) Pin, straight, .105" Lead Length (.018 dia) Pin, straight, .140" Lead Length (.018 dia) Pin, straight, .156" Lead Length (.018 dia) Pin, straight, .172" Lead Length (.018 dia) Socket, straight, .109" Lead Length (.018 dia) Socket, straight, .125" Lead Length (.018 dia) Socket, straight, .140" Lead Length (.018 dia) Socket, straight, .156" Lead Length (.018 dia) 1G Socket, straight, .172" Lead Length (.018 dia) Socket, straight, .187" Lead Length (.018 dia) 1H Pin, straight, .187" Lead Length (.018 dia) 1J Pin, straight, .250" Lead Length (.018 dia) Socket, straight, .250" Lead Length (.018 dia) 13 Pin, straight, .375" Lead Length (.018 dia) Socket, straight, .375" Lead Length (.018 dia) Pin, straight, .500" Lead Length (.018 dia) Socket, straight, .500" Lead Length (.018 dia) Pin, straight, 1.000" Lead Length (.018 dia) Socket, straight, 1.000" Lead Length (.018 dia) 16 Pin, straight, crimped wire Socket, straight, crimped wire PLATING OPTIONS: PLATING OPTIONS: 50 µ" Au contacts (crimp wire) 50 µ" Au contacts (crimp wire) 50 μ" Au contacts (solder cup, pigtail) 50 μ" Au contacts; Sn/Pb alloy terminations 🗵 50 µ" Au contacts (solder cup, pigtail) 50 u" Au contacts; Sn/Pb alloy terminations ⊠ 50 µ" Au contacts; SAC305 terminations 50 u" Au contacts; SAC305 terminations **HARDWARE** STYLE OF HARDWARE: STYLE OF HARDWARE: None None Two fixed jacknut assemblies (62*) Two fixed jacknut assemblies (62*) Two turning jackscrews, allen head, 41 Two turning jackscrews, allen head, 41 retaining ring (81*) retaining ring (81*) Two long turning jackscrews, allen head, Two long turning jackscrews, allen head, retaining ring (82*) retaining ring (82*) Two turning jackscrews, slot head, Two turning jackscrews, slot head, retaining ring (83*) retaining ring (83*) Two long turning jackscrews, slot head, Two long turning jackscrews, slot head, retaining ring (84*) retaining ring (84*) Two turning jackscrews, allen head, captivated** (85*) Two turning jackscrews, allen head, captivated** (85*) Keying hardware, see options below. (Body Keying hardware, see options below. (Body material 2, 3 and 4 only) material 2, 3 and 4 only) POLARIZATION / WIRING POLARIZATION / WIRING

OPTIONS

KSXX Two turning jackscrews. See page MA-6 for keying options (KJ*)
KPXX Two fixed jacknuts. See page MA-6 for keying options (KN*)

XX For wiring codes, see page MA-3 & MA-4

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

For wiring codes, see page MA-3 & MA-4

^{* =} Use numbers or letters in parenthesis when ordering size 100.

^{** =} Captive hardware is factory installed and non-removable.

^{*** = 69} position connectors are available in metal only

^{**** = 2} row, 51 position connectors are available in metal only (non Mil-Spec interface).



Rugged Plastic

MN

.094 -

.406 —

.183

В

POSITION #1

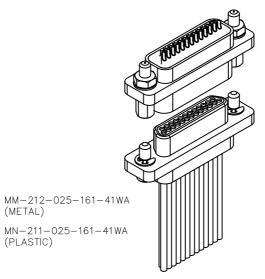
PLUG

__ #2-56 JACKSCREW (2 PLCS) SEE PAGE MA-5

SEE LEAD/WIRE LENGTH

D С

M - 35

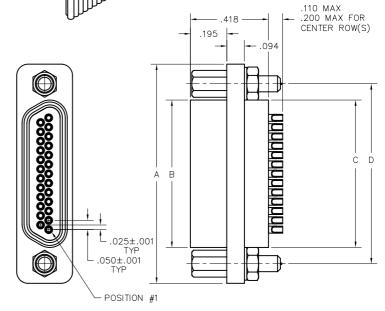


MM-223-025-2A3-2200 (METAL)

MN-221-025-2A3-2200 (PLASTIC)

.418

RECEPTACLE



DIMENSIONS												
SIZE	CONTACT	_	PLUG	RCPT	С	D	E POTTING WELL	Н	HARDWARE			
SIZE	ROWS	A	MAX	MAX		ט	MAX	П	HARDWARE			
9		.775	.334	.400	.390	.565						
15		.925	.484	.550	.540	.715	.270					
21	2	1.075	.634	.700	.690	.865] 270	.298	#2-56 UNC THD		
25		1.175	.734	.800	.790	.965		.290	(.092 DIA THRU			
31		1.325	.884	.950	.940	1.115			,			
37		1.475	1.034	1.100	1.090	1.265]					
51**		1.825	1.384	1.450	1.440	1.615						
51	3	1.425	.984	1.050	1.040	1.215	710	7.11				
69		1.725	1.284	1.350	1.340	1.515	.310	.341				
100	4	2.160	1.384	1.508	1.432	1.800	.360	.384	#4-40 UNC THD			

^{*} = 69 POSITION CONNECTORS ARE AVAILABLE IN METAL ONLY. ** = 2 ROW, 51 POSITION CONNECTORS ARE AVAILABLE IN METAL ONLY, (NON MIL-SPEC INTERFACE).

#2-56 JACKPOST (2 PLCS) SEE PAGE MA-5



PLUG: **RECEPTACLE:** MQ-222-031-2G3-4500 PLUG: MP-211-031-161-41WS RECEPTACLE: MP – 221 – 031 – 2G3 – 4500

XX – XXX – XXX – XXX – XXX

PLU	G	RE	CEPTACLE	XX	(-XX	X-XX	(-X)	×–	ΧXX	(X-)
	SEF	RIES] [
MQ	.050" Low Profile Metal I/O Connector	I MQ	.050" Low Profile Metal I/O Connector	-						
	.050" Low Profile Plastic I/O Connector	MP	.050" Low Profile Plastic I/O Connector							
(MQ	& MP mate with MP, MQ, MR, MS receptacles)	(MC	& MP mate with MP, MQ, MR, MS plugs)							
				┰						
	2 Pow (Sizes 0 thru 27)		2-Row (Sizes 9 thru 37)	┙						
2 3	2-Row (Sizes 9 thru 37) 3-Row (Size 51)	2	3-Row (Size 51)							
		 								
1	BODY STYLE: Plug, straight, with ears	2	BODY STYLE: Receptacle, straight, with ears							
•		1 -								
	BODY MATERIAL:	١.	BODY MATERIAL:							
1	Polyphenylene Sulfide (MN only)	1	Polyphenylene Sulfide (MN only)							
2	Polyphenylene Sulfide with electroless nickel shell	2	Polyphenylene Sulfide with electroless nicke		ell					
3	Polyphenylene Sulfide with electrodeposited	3	Polyphenylene Sulfide with electrodeposited	1						
	cadmium shell	١.	cadmium shell							
4	Polyphenylene Sulfide with hard anodized	4	Polyphenylene Sulfide with hard anodized							
	black shell	l	black shell]				
	SIZ	ĽΕ								
XXX	009, 015, 021, 025, 031, 037, 051	xxx	009, 015, 021, 025, 031, 037, 051							
	CONT	ACT:	 S	1						
	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	_						
11	Pin, straight, 26 awg solder cup	21	Socket, straight, 26 awg solder cup							
1 A	Pin, straight, 24 awg solder cup	2A	Socket, straight, 20 awg solder cup							
1D	Pin, straight, .109" Lead Length (.018 dia) SEE NOTE 1	2D	Socket, straight, .109" Lead Length (.018 dia	a)						
1E	Pin, straight, .125" Lead Length (.018 dia) SEE NOTE 1	2E	Socket, straight, .105 Lead Length (.018 dia							
1F	Pin, straight, .140" Lead Length (.018 dia) SEE NOTE 1	2F	Socket, straight, .140" Lead Length (.018 dia							
12	Pin, straight, .150" Lead Length (.018 dia) SEE NOTE 1	22	Socket, straight, .150" Lead Length (.018 dia							
1G	Pin, straight, .156" Lead Length (.018 dia) SEE NOTE 1	2G	Socket, straight, .156" Lead Length (.018 dia							
1H	Pin, straight, .172" Lead Length (.018 dia) SEE NOTE 1	2H	Socket, straight, .172" Lead Length (.018 dia							
IJ	Pin, straight, .187" Lead Length (.018 dia) SEE NOTE 1	2J	Socket, straight, .187" Lead Length (.018 dia							
13	Pin, straight, .250" Lead Length (.018 dia) SEE NOTE 1	23	Socket, straight, .250" Lead Length (.018 dia							
1K	Pin, straight, .375" Lead Length (.018 dia) SEE NOTE 1	2K	Socket, straight, .375" Lead Length (.018 dia							
14	Pin, straight, .500" Lead Length (.018 dia) SEE NOTE 1	2L	Socket, straight, .500" Lead Length (.018 dia							
15	Pin, straight, 1.000" Lead Length (.018 dia) SEE NOTE 1	2M	Socket, straight, 1.000" Lead Length (.018 d							
16	Pin, straight, crimped wire	24	Socket, straight, .500" Lead Length (.018 dia		SEE NO					
		25 26	Socket, straight, 1.000" Lead Length (.018 d	ııa) s	SEE NO	TE 1				
	DI ATIMO ODTIONO.	1 20	Socket, straight, crimped wire							
1	PLATING OPTIONS:	4	PLATING OPTIONS:							
	50 μ" Au contacts (crimp wire)	1	50 µ" Au contacts (crimp wire)							
3 5	50 μ" Au contacts (solder cup, pigtail)	3	50 µ" Au contacts (solder cup, pigtail) 50 µ" Au contacts; Sn/Pb alloy termination	no F	∽ 1					
	50 µ" Au contacts; Sn/Pb alloy terminations 🗵		· · · · · · · · · · · · · · · · · · ·	115	스					
7	50 μ" Au contacts; SAC305 terminations	7	50 u" Au contacts; SAC305 terminations	_						
	HARD	WAK		J						
00	STYLE OF HARDWARE: None	00	STYLE OF HARDWARE: None							
22	Two fixed jacknut assemblies (62*)	22	Two fixed jacknut assemblies (62*)							
11	Two turning jackscrews, allen head,	41	Two turning jackscrews, allen head,							
	retaining ring (81*)	l	retaining ring (81*)							
12	Two long turning jackscrews, allen head,	42	Two long turning jackscrews, allen head,							
	retaining ring (82*)	_	retaining ring (82*)							
13	Two turning jackscrews, slot head,	43	Two turning jackscrews, slot head,							
	retaining ring (83*)		retaining ring (83*)							
14	Two long turning jackscrews, slot head,	44	Two long turning jackscrews, slot head,							
	retaining ring (84*)	١	retaining ring (84*)							
45	Two turning jackscrews, allen head,	45	Two turning jackscrews, allen head,							
00	captivated** (85*)		captivated** (85*)							
99	Keying hardware, see options below. (Body material 2, 3 and 4 only)	99	Keying hardware, see options below. (Body material 2, 3 and 4 only)							
	POLARIZATION / WIRING		POLARIZATION / WIRING							
00	None	00	None							
	For wiring codes, see page MA-3 & MA-4		For wiring codes, see page MA-3 & MA-4							
	OPTI	ONS		1						•
KSX	X Two turning jackscrews. See page MA-6 for keying		XX Two turning jackscrews and interfacial sea	_ aling	gask	et.				
	options		See page MA-6 for keying options	3	-					
KPX	X Two fixed jacknuts. See page MA-6 for keying	KP)	X Two fixed jacknuts and interfacial sealing	gask	et.					
	options		See page MA-6 for keying options							
** .	e Captive hardware is factory installed and non-removab		See page MA-6 for keying options NOTE 1 = The leads							

^{** =} Captive hardware is factory installed and non-removable.

NOTE 1 = The leads on these contacts are soft copper suitable for forming.



Cable to Cable

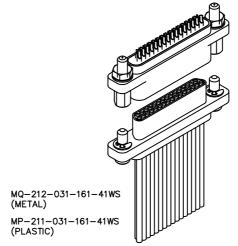
.050" 9 thru 51 Contacts

Low Profile Metal

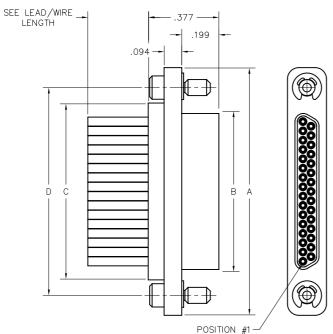
MQ

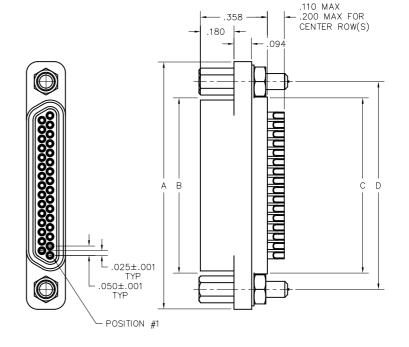
Low Profile Plastic

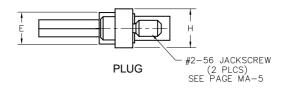
MP

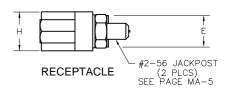


MQ-222-031-2A3-2200 (METAL) MP-221-031-2A3-2200 (PLASTIC)









DIMENSIONS												
	CONTACT		В				E					
SIZE	ROWS	Α	PLUG MAX	RCPT MAX	С	D	POTTING WELL MAX	Ι	HARDWARE			
9		.778	.292	.378	.398	.565						
15		.928	.442	.528	.548	.715						
21	2	1.078	.592	.678	.698	.865	.173	.208				
25	2	1.178	.692	.778	.798	.965	.173	.175	.175	.200	#2-56 UNC THD (.092 DIA THRU)	
31		1.328	.842	.928	.948	1.115				(.092 DIA ITINO)		
37		1.478	.992	1.078	1.098	1.265						
51	3	1.428	.942	1.028	1.048	1.215	.220	.250				