

PLUG: MM-212-031-161-41WQ

**RECEPTACLE:** MM-2C2-031-261-26WA-EMI

**PLUG:** MN – 211 – 031 – 161 – 41 WQ

**RECEPTACLE:** MM-2C2-031-261-26WA-EMI

# PLUG RECEPTACLE XX-XXX-XXX-XXXX-XXX

PLU	ធ	HE	JEPTAGLE	Α,	X — 7	\ \ \ \	( – X	XX-	XXX	( – x	XX	x-x
	SER	IES		1								
MN	.050" Rugged Metal I/O Connector .050" Rugged Plastic I/O Connector & MN mate with MK, ML, MM, MN receptacles)		.050" Rugged Metal I/O Connector  I mates with MK, ML, MM, MN plugs)	•								
	ВО	DY										
3	2-Row (Sizes 9 thru 37) 3-Row (Size 51 or 69) 4-Row (Size 100)	2 3 4	2-Row (Sizes 9 thru 37) 3-Row (Size 51 or 69) 4-Row (Size 100)	_								
1	BODY STYLE: Plug, straight, with ears	С	BODY STYLE: Receptacle, straight, rear panel mount, with fluorosilicone o-ring and interfacial seal									
1 2 3 4	BODY MATERIAL: Polyphenylene Sulfide (MN only) Polyphenylene Sulfide with electroless nickel shell Polyphenylene Sulfide with electrodeposited cadmium shell  Polyphenylene Sulfide with hard anodized black shell	2 3 4	BODY MATERIAL: Polyphenylene Sulfide with electroless nickel shell Polyphenylene Sulfide with electrodeposited cadmium shell   Polyphenylene Sulfide with hard anodized black shell	i								
	SIZ	Έ										
XXX	009, 015, 021, 025, 031, 037, 051, 069, 100	XXX	( 009, 015, 021, 025, 031, 037, 051, 069, 100	)								
	CONT	ACTS	3									
11 1A 14 15 16	TYPE CONTACTS/TERMINATIONS: Pin, straight, 26 awg solder cup Pin, straight, 24 awg solder cup Pin, straight, .500" pigtails (.018 dia) Pin, straight, 1.000" pigtails (.018 dia) Pin, straight, crimped wire PLATING OPTIONS: 50 µ" Au contacts (crimp wire) 50 µ" Au contacts: 10 µ" Au terminations (solder cup, pigtail) 50 µ" Au contacts; Sn/Pb alloy terminations (pigtail)	21 2A 24 25 26 1 3	TYPE CONTACTS/TERMINATIONS: Socket, straight, 26 awg solder cup Socket, straight, 24 awg solder cup Socket, straight, .500" pigtails (.018 dia) Socket, straight, 1.000" pigtails (.018 dia) Socket, straight, crimped wire  PLATING OPTIONS: 50 µ" Au contacts (crimp wire) 50 µ" Au contacts: 10 µ" Au terminations (solder cup, pigtail) 50 µ" Au contacts; Sn/Pb alloy terminations	(pic	ntail)		1					
	50 µ" Au contacts; SAC305 terminations (pigtail)	7	50 u" Au contacts; SAC305 terminations (pig									
	HARDI	WAR	E									
41	STYLE OF HARDWARE: None Two turning jackscrews, allen head, retaining ring (81*)	00 24	STYLE OF HARDWARE: None Two fixed jacknuts, rear panel mount, .040" panel thickness (64*)									
42	Two long turning jackscrews, allen head, retaining ring (82*)	26	Two fixed jacknuts, rear panel mount, .060" panel thickness (66*)									
	Two turning jackscrews, slot head, retaining ring (83*)	28	Two fixed jacknuts, rear panel mount, .070" panel thickness (68*)									
45	Two long turning jackscrews, slot head, retaining ring (84*) Two turning jackscrews, allen head, captivated** (85*)	29	Two fixed jacknuts, rear panel mount, .080" panel thickness (69*)									
00	POLARIZATION / WIRING: None	00	POLARIZATION / WIRING None								•	
	For wiring codes, see page MA-3 & MA-4	XX	For wiring codes, see page MA-3 & MA-4									
	OPTI											
		EMI	EMI o-ring (in lieu of fluorosilicone o-ring)									

<sup>\* =</sup> Use number in parenthesis when ordering size 100.

<sup>\*\* =</sup> Captive hardware is factory installed and non-removable.



# Cable to Cable (Rear Panel Mount)

.050"

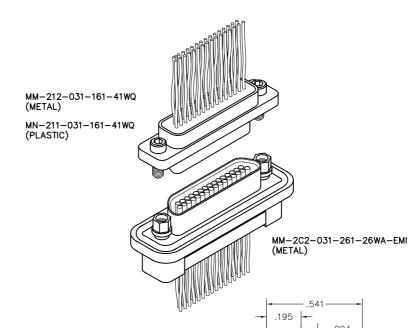
9 thru 100 Contacts

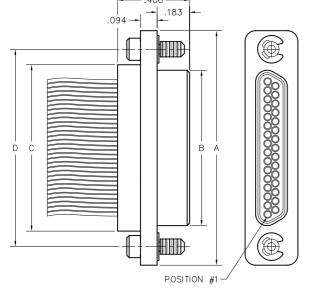
Rugged Metal

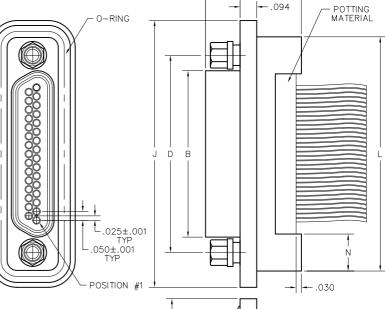
MM

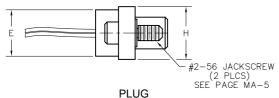
Rugged Plastic

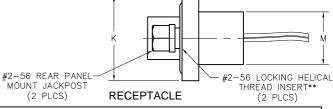
MN











							DIMENSION	S						
	CONTACT			В	_	_	E							
SIZE	ROWS	A	PLUG MAX	RCPT MAX	С	D	POTTING WELL MAX	Н	HARDWARE	J	K	L	М	N
9		.775	.334	.400	.390	.565				.957		.773		
15		.925	.484	.550	.540	.715				1.107		.923		l
21	2	1.075	.634	.700	.690	.865	.270	.298		1.257	.480	1.073	.298	.210
25		1.175	.734	.800	.790	.965	.270	.290	#2-56 UNC THD	1.357	.400	1.173	.290	.210
31		1.325	.884	.950	.940	1.115			#2 30 0110 1110	1.507		1.323		l
37		1.475	1.034	1.100	1.090	1.265				1.657		1.473		l
51	3	1.425	.984	1.050	1.040	1.215	.310	.341		1.657	.523	1.477	.440	.239
69*	J	1.725	1.284	1.350	1.340	1.515	.510	.541		1.957	.525	1.777	.440	.239
100	4	2.160	1.384	1.508	1.432	1.800	.360	.384	#4-40 UNC THD	2.383	.600	2.219	.515	.301

<sup>\* = 69</sup> POSITON CONNECTORS ARE AVAILABLE IN METAL ONLY.

<sup>\*\* =</sup> SHELL ACCEPTS .200 MAX #2-56 SCREW LENGTH (.295 MAX #4-40 SCREW LENGTH).



# **Wire Codes**

## NEMA HP3-EXBEB (Formerly M16878/4-24 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	WA	WB	WC	UD	UE	WD	UG	UH	UJ	UK	UL	UM	UN	UP	υQ	UR
WHITE	WE	WF	WG	VD	VE	WH	VG	VH	VJ	VK	VL	VM	VN	VP	VQ	VR
YELLOW	WJ	WK	WL			WM										

### NEMA HP3-EXBDB (Formerly M16878/4-26 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	WN	WP	WQ	YD	ΥE	WR	YG	ΥH	YJ	YK	YL	ΥM	ΥN	ΥP	YQ	YR
WHITE	ws	WT	WU	ZD	ZE	WV	ZG	ZH	ZJ	ZK	ZL	ZM	ZN	ZP	ZQ	ZR
YELLOW	ww	WX	WY			WZ										

## NEMA HP3-EXBCB (Formerly M16878/4-28 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	XA	XB	ХC	1D	1E	XD	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R
WHITE	XE	XF	XG	2D	2E	XH	2G	2H	2J	2K	2L	2M	2N	2P	2Q	2R
YELLOW	XJ	XK	XL			XM										

# TWISTED PAIR per NEMA WC27500-XXRC2U00 (SAE AS22759/11)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
24 AWG	AA	AB	AC	AD	AE	AF	AG	АН	AJ	AK	AL	AM	AN	AP	AQ	AR
26 AWG	ВА	ВВ	вс	BD	BE	BF	BG	вн	BJ	ВК	BL	ВМ	BN	BP	BQ	BR

## TWISTED PAIR per NEMA WC27500-XXSC2U00 (SAE AS22759/33)\*\*\* ⊠

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
24 AWG	JA	JB	JC	JD	JE	JF	JG	JH	JJ	JK	JL	JM	JN	JP	JQ	JR
26 AWG	KA	KB	KC	KD	KE	KF	KG	KH	KJ	KK	KL	KM	KN	KP	KQ	KR

For twisted pair wire connect charts, see page MA-9

Twisted pair wire not available on MA, MC or Hybrid connectors

<sup>\* =</sup> Connectors with more than 100 contacts will repeat color code after 100 colors.

<sup>\*\*\* =</sup> Per M83513, corrosion has been experienced on connectors that are pre-wired with 22759/33 and stored in sealed environments. Caution should be excercised when using this wire.



# **Wire Codes**

### SAE AS22759/11-24

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	5A	5B	5C	5D	5E	5F	5G	5H	5J	5K	5L	5M	5N	5P	5Q	5R
MIL-STD-681*	CA	СВ	СС	CD	CE	CF	CG	СН	CJ	СК	CL	СМ	CN	СР	CQ	CR
WHITE	DA	DB	DC	DD	DE	DF	DG	DH	DJ	DK	DL	DM	DN	DP	DQ	DR

### SAE AS22759/11-26

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	6A	6B	V1	6D	6E	V2	6G	6H	6J	6K	6L	Y6	6N	6P	6Q	6R
MIL-STD-681*	Х3	X4	W3	ED	EE	W4	EG	EH	EJ	EK	EL	EM	EN	EP	EQ	ER
WHITE	X1	X2	W1	FD	FE	W2	FG	FH	FJ	FK	FL	Y5	FN	FP	FQ	FR

### SAE AS22759/33-24\*\*\* ⊠

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	LA	LB	LC	LD	LE	LF	LG	LH	LJ	LK	LL	LM	LN	LP	LQ	LR
WHITE	MA	МВ	МС	MD	ME	MF	MG	МН	MJ	MK	ML	MM	MN	MP	MQ	MR

## SAE AS22759/33-26\*\*\* ⊠

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	NA	NB	Y3	ND	NE	Y4	NG	NH	NJ	NK	NL	Y8	NN	NP	NQ	NR
WHITE	PA	РВ	Y1	PD	PE	Y2	PG	PH	PJ	PK	PL	Y7	PN	PP	PQ	PR

<sup>\* =</sup> Connectors with more than 100 contacts will repeat color code after 100 colors.

<sup>\*\* =</sup> Wire colors per M83513 are ten solid colors repeating.

<sup>\*\*\* =</sup> Per M83513, corrosion has been experienced on connectors that are pre-wired with 22759/33 and stored in sealed environments.

Caution should be excercised when using this wire.

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