

PLUG: MM-212-031-161-41WA
 RECEPTACLE: MM-222-031-2G3-4500
 PLUG: MN-211-031-161-41WA
 RECEPTACLE: MN-221-031-2G3-4500
 XX-XXX-XXX-XXX-XXXX-XXX

PLUG		RECEPTACLE	
SERIES		SERIES	
MM .050" Rugged Metal I/O Connector	MN .050" Rugged Plastic I/O Connector	MM .050" Rugged Metal 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		BODY	
2 2-Row (Sizes 9 thru 51****)	2 2-Row (Sizes 9 thru 51****)	3 3-Row (Size 51 & 69***)	3 3-Row (Size 51 & 69***)
4 4-Row (Size 100)	4 4-Row (Size 100)	4 4-Row (Size 100)	4 4-Row (Size 100)
BODY STYLE:		BODY STYLE:	
1 Plug, straight, with ears	2 Receptacle, straight, with ears		
BODY MATERIAL:		BODY MATERIAL:	
1 Polyphenylene Sulfide (MN only)	1 Polyphenylene Sulfide (MN 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		SIZE	
XXX 009, 015, 021, 025, 031, 037, 051****, 069***, 100		XXX 009, 015, 021, 025, 031, 037, 051****, 069***, 100	
CONTACTS		CONTACTS	
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
11 Pin, straight, 26 awg solder cup	21 Socket, straight, 26 awg solder cup	2A Socket, straight, 24 awg solder cup	2A Socket, straight, 24 awg solder cup
1A Pin, straight, .109" Lead Length (.018 dia)	2D Socket, straight, .109" Lead Length (.018 dia)	2E Socket, straight, .125" Lead Length (.018 dia)	2E Socket, straight, .125" Lead Length (.018 dia)
1D Pin, straight, .125" Lead Length (.018 dia)	2F Socket, straight, .140" Lead Length (.018 dia)	2G Socket, straight, .156" Lead Length (.018 dia)	2G Socket, straight, .156" Lead Length (.018 dia)
1E Pin, straight, .140" Lead Length (.018 dia)	2H Socket, straight, .172" Lead Length (.018 dia)	2J Socket, straight, .187" Lead Length (.018 dia)	2J Socket, straight, .187" Lead Length (.018 dia)
1F Pin, straight, .156" Lead Length (.018 dia)	2K Socket, straight, .250" Lead Length (.018 dia)	2L Socket, straight, .375" Lead Length (.018 dia)	2L Socket, straight, .375" Lead Length (.018 dia)
1G Pin, straight, .172" Lead Length (.018 dia)	2M Socket, straight, .500" Lead Length (.018 dia)	2N Socket, straight, .500" Lead Length (.018 dia)	2N Socket, straight, .500" Lead Length (.018 dia)
1H Pin, straight, .187" Lead Length (.018 dia)	26 Socket, straight, crimped wire		
1J Pin, straight, .250" Lead Length (.018 dia)			
1K Pin, straight, .375" Lead Length (.018 dia)			
14 Pin, straight, .500" Lead Length (.018 dia)			
15 Pin, straight, 1.000" Lead Length (.018 dia)			
16 Pin, straight, crimped wire			
PLATING OPTIONS:		PLATING OPTIONS:	
1 50 µ" Au contacts (crimp wire)	1 50 µ" Au contacts (crimp wire)	3 50 µ" Au contacts (solder cup, pigtail)	3 50 µ" Au contacts (solder cup, pigtail)
3 50 µ" Au contacts (solder cup, pigtail)	5 50 µ" Au contacts; Sn/Pb alloy terminations ☒	5 50 µ" Au contacts; Sn/Pb alloy terminations ☒	5 50 µ" Au contacts; Sn/Pb alloy terminations ☒
5 50 µ" Au contacts; Sn/Pb alloy terminations ☒	7 50 µ" Au contacts; SAC305 terminations	7 50 µ" Au contacts; SAC305 terminations	7 50 µ" Au contacts; SAC305 terminations
7 50 µ" Au contacts; SAC305 terminations			
HARDWARE		HARDWARE	
STYLE OF HARDWARE:		STYLE OF HARDWARE:	
00 None	00 None	22 Two fixed jacknut assemblies (62*)	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*)	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*)	42 Two long turning jackscrews, allen head, retaining ring (82*)	42 Two long turning jackscrews, allen head, retaining ring (82*)
42 Two long turning jackscrews, allen head, retaining ring (82*)	43 Two turning jackscrews, slot head, retaining ring (83*)	43 Two turning jackscrews, slot head, retaining ring (83*)	43 Two turning jackscrews, slot head, retaining ring (83*)
43 Two turning jackscrews, slot head, retaining ring (83*)	44 Two long turning jackscrews, slot head, retaining ring (84*)	44 Two long turning jackscrews, slot head, retaining ring (84*)	44 Two long turning jackscrews, slot head, retaining ring (84*)
44 Two long turning jackscrews, slot head, retaining ring (84*)	45 Two turning jackscrews, allen head, captivated** (85*)	45 Two turning jackscrews, allen head, captivated** (85*)	45 Two turning jackscrews, allen head, captivated** (85*)
45 Two turning jackscrews, allen head, 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)	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	XX For wiring codes, see page MA-3 & MA-4	XX For wiring codes, see page MA-3 & MA-4
XX For wiring codes, see page MA-3 & MA-4			
OPTIONS		OPTIONS	
KSXX Two turning jackscrews. See page MA-6 for keying options (KJ*)	KSXX Two turning jackscrews and interfacial sealing gasket. See page MA-6 for keying options (KJ*)	KPXX Two fixed jacknuts. See page MA-6 for keying options (KN*)	KPXX Two fixed jacknuts and interfacial sealing gasket. See page MA-6 for keying options (KN*)
900 Interfacial sealing gasket	900 Interfacial sealing gasket		

* = 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).
☒ = Option not RoHS compliant



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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331