

MIL-C-5015 Connectors

MS General Information, Class Designations



DESIGN CHARACTERISTICS

- Medium to heavy weight cylindrical
- Durable, field-proven design
- Environmental resistant
- Resilient inserts
- Operating voltage to 3000 VAC (RMS) at sea level
- Threaded couplings
- Single key / keyway shell polarization
- Cost effective



CUSTOMER OPTIONS

- Five shell styles
- Fourteen shell sizes
- Five class designations
- Alternate insert positioning
- Zinc alloy plating (cadmium-free) available



MS connectors meet the latest performance requirements of MIL-C-5015.

These connectors represent well proven electrical capability at an acceptable cost for most equipment where durability is important.

MIL-C-5015 features threaded couplings and single key/ keyway polarization, representing maximum simplicity in design.

Applications include military ground support equipment, ordnance and shipboard installations.



MIL-C-5015 Connectors MS-AClass



Wall Mounting Receptacle
壁挂式插座



Cable connecting Receptacle
电缆连接插座



Box Mounting Receptacle
箱体安装插座



Straight Plug
直插



Right Angle Plug
弯插头

MS-A

MS3100A壁挂式插座与MS3057电缆夹或导管一起使用，以消除在电线穿过墙壁或舱壁的应用中对导管盒的需求。

Shells:

外壳部件采用优质铝合金制造。
锌板表面涂上橄榄色的铬酸盐，处理后具有耐腐蚀性。

Contacts:

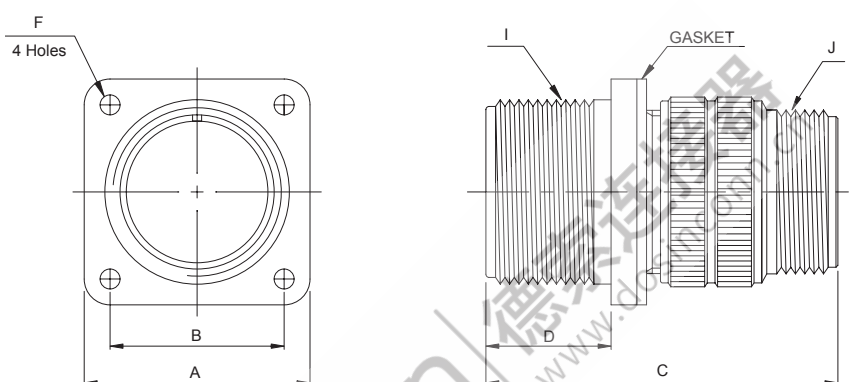
销和插座由镀银的铜合金加工而成。
尺寸16和12插座触点包含封闭入口设计。

Inserts:

衬垫是弹性合成橡胶，提供高介电强度，高抗电弧振动。
专有设计允许对引脚或插座插入件进行加压。

MIL-C-5015 Connectors MS3100A

Wall mounting receptacle 壁挂式插座



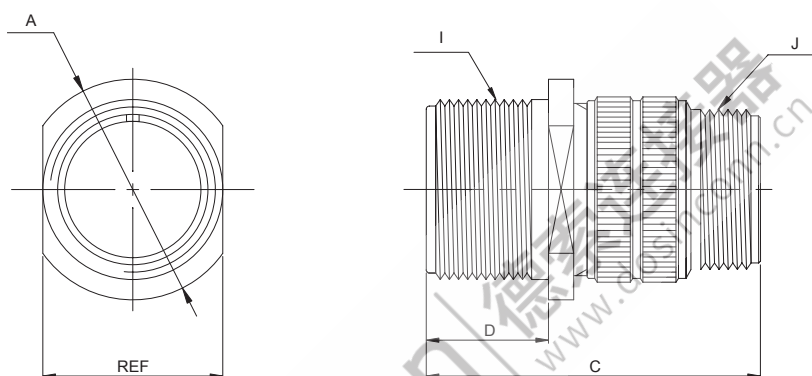
MS3100A壁挂式插座与MS3057电缆夹或导管一起使用，以消除在电线穿过墙壁或舱壁的应用中对导管盒的需求。

(mm)

Shell Size	□A ±0.79	□B ±0.12	C Max	D +0.79 -0.00	ØF +0.25 -0.12	I Thread-2A (UNEF)	J Thread-2A (UNEF)
10SL	25.40	18.26	38.88	14.28	3.20	5/8-24 NEF	5/8-24 NEF
12S	27.79	20.62	42.87	14.28	3.20	3/4-20 NEF	5/8-24 NEF
12	27.79	20.62	52.37	19.05	3.20	3/4-20 NEF	5/8-24 NEF
14S	30.18	23.01	42.87	14.28	3.20	7/8-20 NEF	3/4-20 NEF
14	30.18	23.01	52.37	19.05	3.20	7/8-20 NEF	3/4-20 NEF
16S	32.54	24.61	42.87	14.28	3.20	1-20 NEF	7/8-20 NEF
16	32.54	24.61	52.37	19.05	3.20	1-20 NEF	7/8-20 NEF
18	34.93	26.97	52.37	19.05	3.20	1 1/8-18 NEF	1-20 NEF
20	38.10	29.36	55.57	19.05	3.20	1 1/4-18 NEF	1 3/16-18 NEF
22	41.28	31.75	55.57	19.05	3.20	1 3/8-18 NEF	1 3/16-18 NEF
24	44.45	34.93	58.72	20.63	3.73	1 1/2-18 NEF	1 7/16-18 NEF
28	50.80	39.67	58.72	20.63	3.73	1 3/4-18 NS	1 7/16-18 NEF
32	57.15	44.45	67.92	22.23	4.39	2-18 NS	1 3/4-18 NS
36	63.50	49.23	67.92	22.23	4.39	2 1/4-16 UN	2-18 NS

MIL-C-5015 Connectors MS3101A

Cable Connecting Receptacle



MS3101A实心端钟形电缆连接插座用于不需要安装规定的电缆延伸要求。

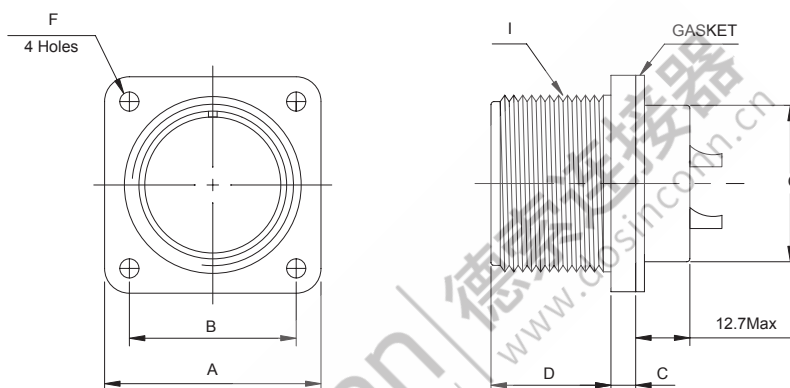
(mm)

Shell Size	Ø A Max	C Max	D +0.79 -0.00	I Thread-2A (UNEF)	J Thread-2A (UNEF)
10SL	24.61	38.88	14.28	5/8-24 NEF	5/8-24 NEF
12S	26.97	42.87	14.28	3/4-20 NEF	5/8-24 NEF
12	26.97	52.37	19.05	3/4-20 NEF	5/8-24 NEF
14S	29.36	42.87	14.28	7/8-20 NEF	3/4-20 NEF
14	29.36	52.37	19.05	7/8-20 NEF	3/4-20 NEF
16S	31.75	42.87	14.28	1-20 NEF	7/8-20 NEF
16	31.75	52.37	19.05	1-20 NEF	7/8-20 NEF
18	34.13	52.37	19.05	1 1/8-18 NEF	1-20 NEF
20	37.31	55.57	19.05	1 1/4-18 NEF	1 3/16-18 NEF
22	40.48	55.57	19.05	1 3/8-18 NEF	1 3/16-18 NEF
24	43.66	58.72	20.63	1 1/2-18 NEF	1 7/16-18 NEF
28	50.01	58.72	20.63	1 3/4-18 NS	1 7/16-18 NEF
32	56.36	67.92	22.23	2-18 NS	1 3/4-18 NS
36	62.71	67.92	22.23	2 1/4-16 UN	2-18 NS

MIL-C-5015 Connectors MS3102A

BOX Mounting Receptacle 箱体安装插座

(Available with Plastic or Rubber insulators)
(可选配塑料或橡胶绝缘子)



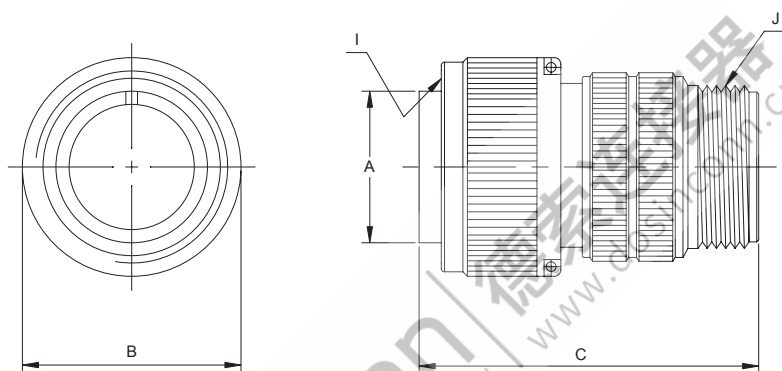
MS3102A箱体安装插座用于不需要电缆支撑的箱体和设备机箱。

(mm)

Shell Size	□A ±0.79	□B ±0.12	C ±0.50	D +0.79 -0.00	ØF +0.25 -0.12	ØG Max	I Thread-2A (UNEF)
10SL	25.40	18.26	3.00	14.28	3.05	16.00	5/8-24 NEF
12S	27.80	20.62	3.00	14.28	3.05	16.50	3/4-20 NEF
12	27.80	20.62	3.00	19.05	3.05	16.50	3/4-20 NEF
14S	30.20	23.01	3.00	14.28	3.05	20.00	7/8-20 NEF
14	30.20	23.01	3.00	19.05	3.05	20.00	7/8-20 NEF
16S	32.50	24.61	3.00	14.28	3.05	23.00	1-20 NEF
16	32.50	24.61	3.00	19.05	3.05	23.00	1-20 NEF
18	34.90	26.97	4.00	19.05	3.05	26.00	1 1/8-18 NEF
20	38.10	29.36	4.00	19.05	3.05	29.00	1 1/4-18 NEF
22	41.30	31.75	4.00	19.05	3.05	32.50	1 3/8-18 NEF
24	44.50	34.93	4.00	20.63	3.73	35.50	1 1/2-18 NEF
28	50.80	39.67	4.00	20.63	3.73	42.00	1 3/4-18 NEF
32	57.20	44.45	4.00	22.23	4.39	48.00	2-18 NS
36	63.50	49.23	4.00	22.23	4.39	54.50	2 1/4-16 UN

MIL-C-5015 Connectors MS3106A

Straight Plug 直插



MS3106A straight plugs are used with 3100, 3101 and 3102 receptacles.

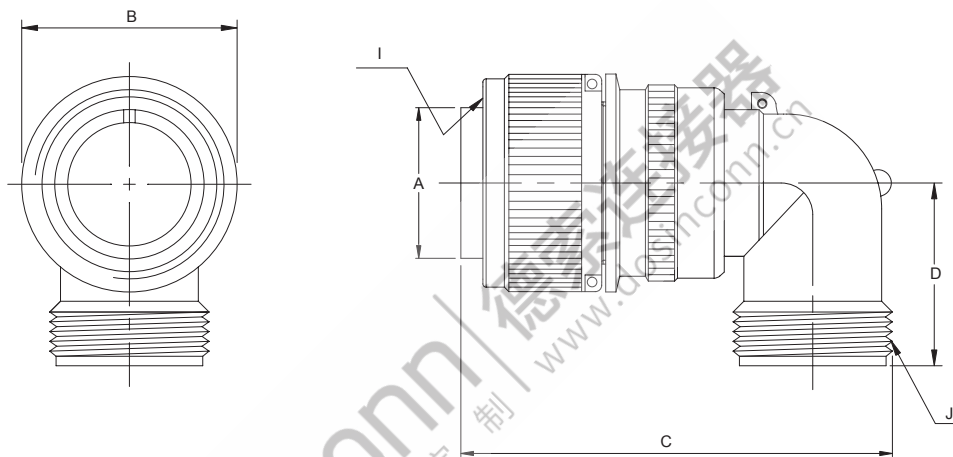
MS3106A直插头与3100,3101和3102插座一起使用。

(mm)

Shell Size	Ø A +0.00 -0.38	Ø B Max	C Max	I Thread-2B (UNEF)	J Thread-2A (UNEF)
10SL	11.33	24.61	38.88	5/8-24 NEF	5/8-24 NEF
12S	14.10	26.97	42.87	3/4-20 NEF	5/8-24 NEF
12	14.10	26.97	52.37	3/4-20 NEF	5/8-24 NEF
14S	17.15	29.36	42.87	7/8-20 NEF	3/4-20 NEF
14	17.15	29.36	52.37	7/8-20 NEF	3/4-20 NEF
16S	20.45	31.75	42.87	1-20 NEF	7/8-20 NEF
16	20.45	31.75	52.37	1-20 NEF	7/8-20 NEF
18	23.62	34.13	52.37	1 1/8-18 NEF	1-20 NEF
20	26.67	37.31	55.57	1 1/4-18 NEF	1 3/16-18 NEF
22	29.85	40.48	55.57	1 3/8-18 NEF	1 3/16-18 NEF
24	33.02	43.66	58.72	1 1/2-18 NEF	1 7/16-18 NEF
28	38.61	50.01	58.72	1 3/4-18 NS	1 7/16-18 NEF
32	44.96	56.36	67.92	2-18 NS	1 3/4-18 NS
36	50.29	62.71	67.92	2 1/4-16 UN	2-18 NS

MIL-C-5015 Connectors MS3108A

Right Angle Plug 弯插头



MS3108A Right Angle plugs, have a solid endbell and are used where wire must be brought at an abrupt angle. Either the split or solid endbells on the 3108 are capable of being rotated and locked.

MS3108A直角插头，有一个坚实的端钟，用于电线必须以一个突然的角度。拆分或实心端铃上的3108能够被旋转和锁定。

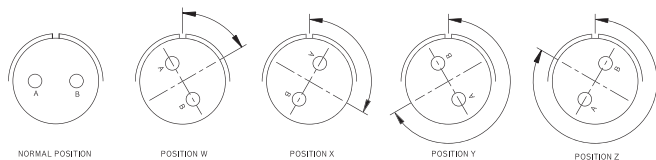
(mm)

Shell Size	Ø A +0.00 -0.38	Ø B Max	C Max	D Max	I Thread-2B (UNEF)	J Thread-2A (UNEF)
10SL	11.33	24.61	46.02	25.40	5/8-24 NEF	5/8-24 NEF
12S*	14.10	26.97	50.80	26.90	3/4-20 NEF	5/8-24 NEF
12	14.10	26.97	57.15	26.90	3/4-20 NEF	5/8-24 NEF
14S	17.15	29.36	53.97	28.50	7/8-20 NEF	3/4-20 NEF
14	17.15	29.36	58.72	28.50	7/8-20 NEF	3/4-20 NEF
16S	20.45	31.75	60.32	30.10	1-20 NEF	7/8-20 NEF
16	20.45	31.75	65.07	30.10	1-20 NEF	7/8-20 NEF
18	23.62	34.13	68.27	33.30	1 1/8-18 NEF	1-20 NEF
20	26.67	37.71	76.98	34.90	1 1/4-18 NEF	1 3/16-18 NEF
22	29.85	40.48	76.98	34.90	1 3/8-18 NEF	1 3/16-18 NEF
24	33.02	43.66	86.51	39.60	1 1/2-18 NEF	1 7/16-18 NEF
28	38.61	50.01	86.51	39.60	1 3/4-18 NS	1 7/16-18 NEF
32	44.96	56.36	95.25	47.60	2-18 NS	1 3/4-18 NS
36	50.29	62.71	100.02	52.30	2 1/4-16 UN	2-18 NS

* No Tooling

MIL-C-5015 Connectors MS- A Class

Insert Arrangements & Alternate Positioning

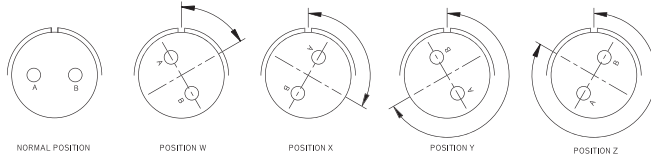


Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees			
			0	4	8	12	16	W	X	Y	Z
10SL-2	A	1					1	-	-	-	-
10SL-3	A	3					3	-	-	-	-
10SL-4	A	2					2	63	-	-	-
12S-1	A	2					2	-	-	-	-
12S-3	A	2					2	70	145	215	290
12S-5	D	1				1		-	-	-	-
14S-1	A	3					3	-	-	-	-
14S-2	Inst	4					4	-	120	240	-
14S-5	Inst	5					5	-	110	-	-
14S-6	Inst	6					6	-	-	-	-
14S-7	A	3					3	90	180	270	-
14S-9	A	2					2	70	145	215	290
14S-07	A	7					7	-	-	-	-
16S-1	A	7					7	80	-	-	280
16S-4	D	2					2	35	110	250	325
16S-5	A	3					3	70	145	215	290
16S-8	A	5					5	-	170	265	
16-9	A	4				2	2	35	110	250	325
16-10	A	3				3	3	90	180	270	-
16-11	A	2				2	35	110	250	325	
16-12	A	1		1				-	-	-	-
16-13	A	2				2	35	110	250	325	
18-1	A/Inst	10					10	70	145	215	290
18-3	D	2				2	35	110	250	325	
18-4	D	4					4	35	110	250	325
18-5	D	3				2	1	80	110	250	280
18-8	A	8				1	7	70	-	-	290
18-9	Inst.	7				2	5	80	110	250	280
18-10	A	4				4		-	120	240	-
18-11	A	5				5		-	170	265	
18-12	A	6					6	80	-	-	280
18-13	A	4			1	3		80	110	250	280
18-15	A	4				4		-	120	240	-

Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees			
			0	4	8	12	16	W	X	Y	Z
18-19	A	10					10	-	120	240	-
18-20	A	5					5	90	180	270	-
18-21	A	3				3		-	-	-	-
18-22	D	3					3	70	145	215	290
18-32	A	8					8	-	-	-	-
20-2	D	1	1					-	-	-	-
20-3	D	3				3		40	145	215	290
20-4	D	4				4		45	110	250	-
20-7	D/A	8					8	80	110	250	280
20-8	Inst.	6			2		4	80	110	250	280
20-11	Inst.	13					13	-	-	-	-
20-15	A	7				7		80	-	-	280
20-16	A	9				2	7	80	110	250	280
20-17	A	6				5	1	90	180	270	-
20-18	A	9				3	6	35	110	250	325
20-19	A	3			3			90	180	270	-
20-22	A	6			3		3	80	110	250	280
20-23	A	2			2			35	110	250	325
20-27	A	14					14	35	110	250	325
20-29	A	17					17	80	-	-	20
20-33	A	11					11	-	-	-	-
20-01	A	10					10	-	-	-	-
22-1	D	2			2			35	110	250	325
22-2	D	3			3			70	145	215	290
22-4	A	4			2	2		35	110	250	325
22-7	E	1	1					-	-	-	-
22-8	E	2				2		35	110	250	325
22-9	E	3				3		70	145	215	290
22-10	E	4					4	35	110	250	325
22-11	B	2					2	35	110	250	325
22-12	D	5			2		3	80	110	250	280
22-13	D/A	5				4	1	34	110	250	325
22-14	A	19					19	80	110	250	280

MIL-C-5015 Connectors MS- A Class

Insert Arrangements & Alternate Positioning



Contact Arrange-ment	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees			
			0	4	8	12	16	W	X	Y	Z
22-15	E/A	6				5	1	80	110	250	280
22-18	A/D	8					8	80	110	250	280
22-19	A	14					14	80	110	250	280
22-20	A	9					9	35	110	250	325
22-21	A	3	1				2	-	-	-	-
22-22	A	4			4			-	110	250	-
22-23	D/A	8				8		35	-	250	-
22-27	D/A	9			1		8	80	-	250	280
22-28	A	7				7		80	-	-	280
24-2	D	7				7		80	-	-	280
24-5	A	16					16	80	110	250	280
24-6	D/A	8				8		80	110	250	280
24-7	A	16				2	14	80	110	250	280
24-9	A	2		2				35	110	250	325
24-10	A	7			7			80	-	-	280
24-11	A	9			3	6		35	110	250	32
24-12	A	5		2		3		80	110	250	280
24-20	D	11				2	9	80	110	250	280
24-22	D	4			4			45	110	250	-
24-28	Inst	24					24	80	110	250	280
24-02	A	9				9		-	-	-	-
24-03	A	12					12	-	-	-	-
28-1	D/A	9			3	6		80	110	250	280
28-3	E	3			3			70	145	215	290
28-6	D	3		3				70	145	215	290
28-7	D	2		2				35	110	250	325
28-9	D	12				6	6	80	110	250	280
28-10	D/A	7		2	2	3		80	110	250	280
28-11	A	22				4	18	80	110	250	280
28-12	A	26					26	90	180	270	-
28-15	A	35					35	80	110	250	280
28-16	A	20					20	80	110	250	280
28-17	B/D/A	15					15	-	-	-	-

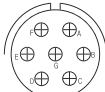
Contact Arrange-ment	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees			
			0	4	8	12	16	W	X	Y	Z
28-18	A	12					12	-	-	-	-
28-19	B/D/A	10				4	6	80	110	250	280
28-20	A	14				10	4	80	110	250	280
28-21	A	37					37	80	110	250	280
28-22	D	6		3			3	70	145	215	290
28-05	A	5			5			-	-	-	-
28-51	A	12				12		-	-	-	-
32-1	E/D	5	2			3		80	110	250	280
32-5	D	2	2					35	110	250	325
32-6	A	23		2	3	2	16	80	110	250	325
32-7	INST/A	35				7	28	80	125	235	280
32-8	A	30				6	24	80	125	235	280
32-9	D	14		2			12	80	110	250	280
32-15	D	8	2			6		35	110	250	280
32-17	D	4		4				45	110	250	280
32-22	A	54					54	80	110	250	280
32-03	A	3		3				-	-	-	-
32-59	A	42			2		40	-	-	-	-
36-1	D	22				4	18	80	110	250	280
36-3	D	6	3			3		70	145	215	290
36-4	D/A	3	3					70	145	215	290
36-5	A	4	4					-	120	240	-
36-7	A	47				7	40	80	110	250	280
36-8	A	47				1	46	80	110	250	280
36-9	A	31		1	2	14	14	80	125	235	280
36-10	A	48					48	80	125	235	280
36-15	D/A	35					35	60	125	245	305
36-30	A	30				30		-	-	-	-
36-40	A	40				22	18	-	-	-	-
36-52	A	52					52	72	144	216	288
36-02	A	27				27		-	-	-	-
36-03	A	20				20		-	-	-	-
36-04	A	22				22		-	-	-	-

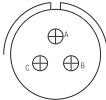
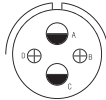
MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

							
	Front of Socket Insert		Front of Socket Insert				
Insert Arrangement	10SL-2	10SL-3	10SL-4	12S-1	12S-3	12S-5	14S-1
Service Rating	A	A	A	A	A	D	A
Number of Contacts	1	3	2	2	2	1	3
Contact Size	16	16	16	16	16	12	16

							
Insert Arrangement	14S-2	14S-5	14S-6	14S-7	14S-9	14S-07	16S-1
Service Rating	Inst.	Inst.	Inst.	A	A	A	A
Number of Contacts	4	5	6	3	2	7	7
Contact Size	16	16	16	16	16	16	16

						
Insert Arrangement	16S-4	16S-5	16S-8	16-9	16-10	16-11
Service Rating	D	A	A	A	A	A
Number of Contacts	2	3	5	2	3	2
Contact Size	16	16	16	12	12	12

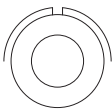
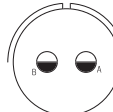
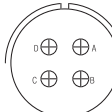
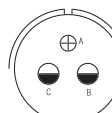
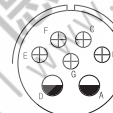
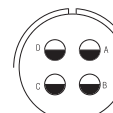
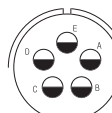
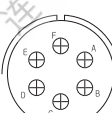
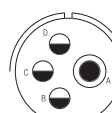
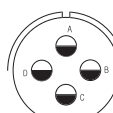
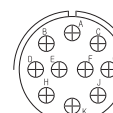
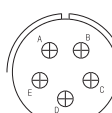


CONTACT LEGEND 16 12 8 4 0

MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

					
Insert Arrangement	16-12	16-13	18-1	18-3	18-4
Service Rating	A	A	B, C, F, G=A; Bal.=Inst	D	D
Number of Contacts	1	2	10	2	4
Contact Size	4	12	16	12	16
					
Insert Arrangement	18-5	18-8	18-9	18-10	18-11
Service Rating	D	A	Inst.	A	A
Number of Contacts	2 1	1 7	2 5	4	5
Contact Size	12 16	12 16	12 16	12	12
					
Insert Arrangement	18-12	18-13	18-15	18-19	18-20
Service Rating	A	A	A	A	A
Number of Contacts	6	1 3	4	10	5
Contact Size	16	8 12	12	16	16



CONTACT LEGEND 16 12 8 4 0

MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	18-21	18-22	18-32	20-2	20-3	20-4
Service Rating	A	D	A	D	D	D
Number of Contacts	3	3	8	1	3	4
Contact Size	12	16	16	0	12	12

Insert Arrangement	20-7	20-8	20-11	20-15	20-16
Service Rating	H, G=D: C, D, E, F=A	Inst.	Inst.	A	A
Number of Contacts	8	2 4	13	7	2 7
Contact Size	16	8 16	16	12	12 16

Insert Arrangement	20-17	20-18	20-19	20-22
Service Rating	A	A	A	A
Number of Contacts	5 1	3 6	3	3 3
Contact Size	12 16	12 16	8	8 16

CONTACT LEGEND 16 12 8 4 0

MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	20-23	20-27	20-29	20-33	20-01
Service Rating	A	A	A	A	A
Number of Contacts	2	14	17	11	10
Contact Size	8	16	16	16	16

Insert Arrangement	22-1	22-2	22-4	22-7	22-8
Service Rating	D	D	A	E	E
Number of Contacts	2	3	2 2	1	2
Contact Size	8	8	8 12	0	12

Insert Arrangement	22-9	22-10	22-11	22-12	22-13
Service Rating	E	E	B	D	E=D; A, B, C, D=A
Number of Contacts	3	4	2	2 3	4 1
Contact Size	12	16	16	8 16	12 16

CONTACT LEGEND 16 12 8 4 0

MIL-C-5015 Connectors MS- A Class

Contact Arrangements

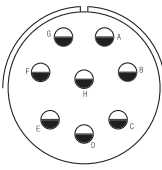
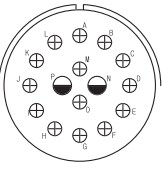
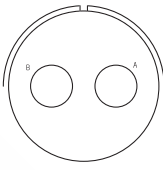
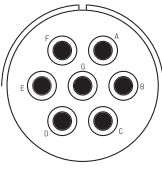
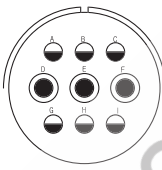
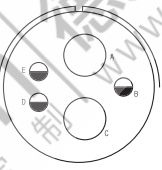
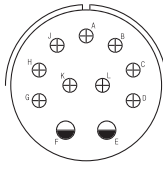
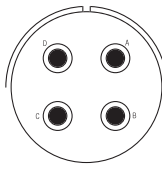
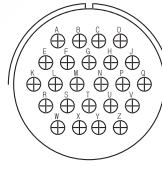
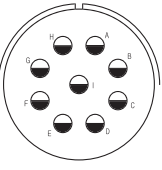
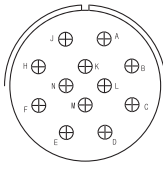
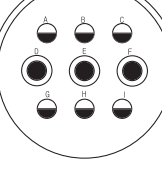
Front face of pin insert or rear face of socket insert illustrated

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MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

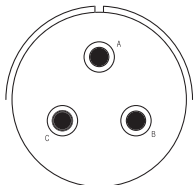
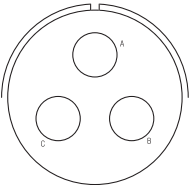
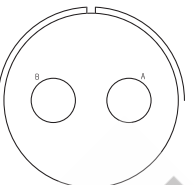
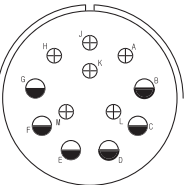
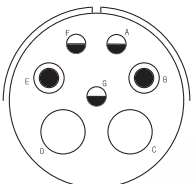
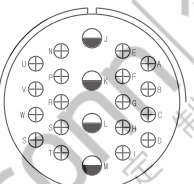
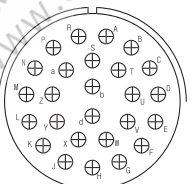
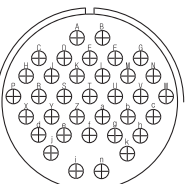
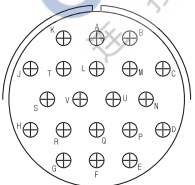
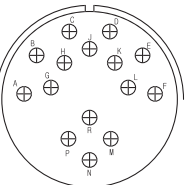
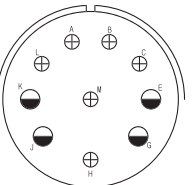
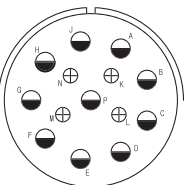
Insert Arrangement Service Rating Number of Contacts Contact Size				
	24-6	24-7	24-9	24-10
	A, G, H=D; Bal.=A	A	A	A
	8 12	2 14 12 16	2 4	7 8
Insert Arrangement Service Rating Number of Contacts Contact Size				
	24-11	24-12	24-20	24-22
	A	A	D	D
	3 6 8 12	2 3 4 12	2 9 1 16	4 8
Insert Arrangement Service Rating Number of Contacts Contact Size				
	24-28	24-02	24-03	28-1
	Inst.	A	A	A, J, E=D; Bal.=A
	24 16	9 12	12 16	3 6 8 12



MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement				
	28-3	28-6	28-7	28-9
	E	D	D	D
	3	3	2	6 6
Service Rating	8	4	4	12 16
	Number of Contacts			
	Contact Size			
Insert Arrangement				
	28-10	28-11	28-12	28-15
	G=D; Bal. A	A	A	A
	2 2 3	4 18	26	35
Service Rating	4 8 12	12 16	16	16
	Number of Contacts			
	Contact Size			
Insert Arrangement				
	28-16	28-17	28-19	28-20
	A	R=B;M,N,P=D;A to L=A	H,M=B;A,B=D;Bal.=A	A
	20	15	4 6	10 4
Service Rating	16	16	12 16	12 16
	Number of Contacts			
	Contact Size			



CONTACT LEGEND

16 12 8 4 0

MIL-C-5015 Connectors MS- A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	28-21	28-22	28-51	32-1
Service Rating	A	D	A	A=E; B, C, D, E=D
Number of Contacts	37	3 3	12	2 3
Contact Size	16	4 16	12	0 12

Insert Arrangement	32-5	32-6	32-7	32-8
Service Rating	D	A	A, B, h, j=Inst.; Bal.=A	A
Number of Contacts	2	2 3 2 16	7 28	6 24
Contact Size	0	4 8 12 16	12 16	12 16

Insert Arrangement	32-9	32-15	32-17
Service Rating	D	D	D
Number of Contacts	2 12	2 6	4
Contact Size	4 16	0 12	4

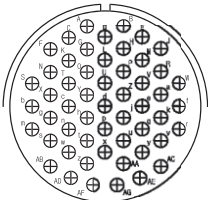
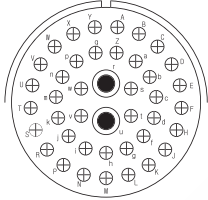
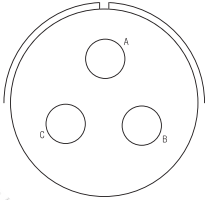
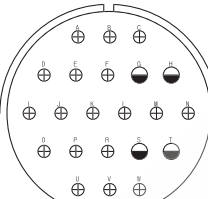
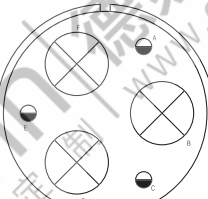
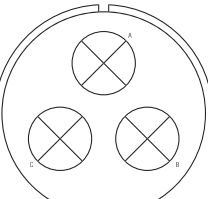
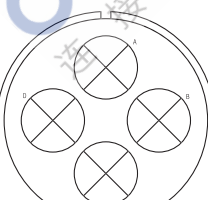
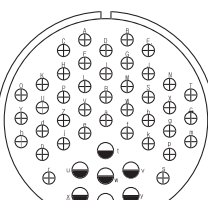
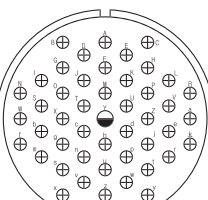


CONTACT LEGEND 16 12 8 4 0

MIL-C-5015 Connectors MS Series A Class

Contact Arrangements

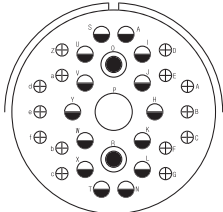
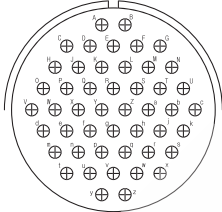
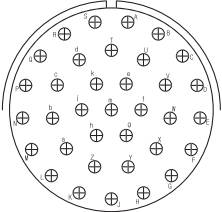
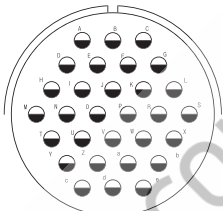
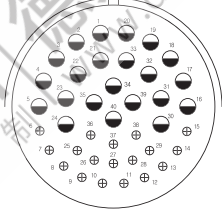
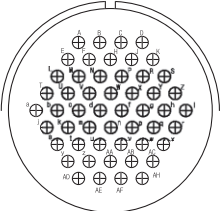
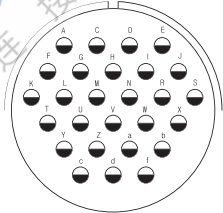
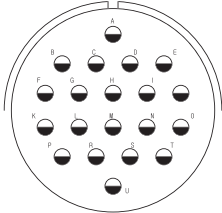
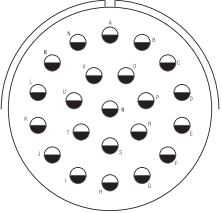
Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement Service Rating Number of Contacts Contact Size		32-22 A 54 16		32-59 A 2 40 8 16		32-03 A 3 4
Insert Arrangement Service Rating Number of Contacts Contact Size		36-1 D 4 18 12 16		36-3 D 3 3 0 12		36-4 A=D; B, C=A 3 0
Insert Arrangement Service Rating Number of Contacts Contact Size		36-5 A 4 0		36-7 A 7 40 12 16		36-8 A 1 46 12 16
CONTACT LEGEND						 16 12 8 4 0

MIL-C-5015 Connectors MS Series A Class

Contact Arrangements

Front face of pin insert or rear face of socket insert illustrated

Insert Arrangement Service Rating Number of Contacts Contact Size	 36-9 A 1 2 14 14 4 8 12 16	 36-10 A 48 16	 36-15 M=D; Bal.=A 35 16
Insert Arrangement Service Rating Number of Contacts Contact Size	 36-30 A 30 12	 36-40 A 22 18 12 16	 36-52 A 52 16
Insert Arrangement Service Rating Number of Contacts Contact Size	 36-02 A 27 12	 36-03 A 20 12	 36-04 A 22 12

CONTACT LEGEND



16 12 8 4 0

MIL-C-5015 Connectors MS Series Accessories



Plug Protection Cap



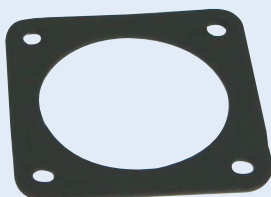
Receptacle Protection Cap



Cable Clamp



Telescoping Bushing



Sealing Gasket

Protection Caps

These metal dust caps are used to protect the plugs and receptacles.

They are furnished with sash chains and are available with bead chains.

MS3057 Cable Clamp

MS3057 style cable clamp was designed for use with jacketed cable or wire protected by tubing. Both clamping halves float maximum strain relief. For unjacketed cable or wires, Use corresponding MS3420 telescoping bushing. Telescoping bushings keep dirt, oil and moisture out of end bell.

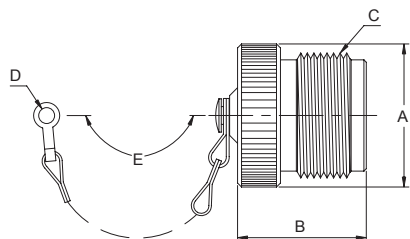
Sealing Gasket

Sealing Gasket is being supplied separately

MIL-C-5015 Connectors MS Series

Accessories Dimension

Plug Protection Cap MS25042



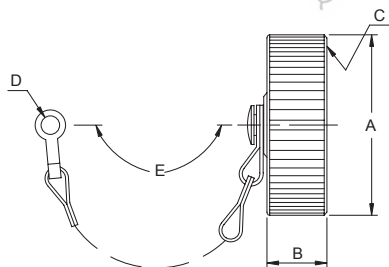
Part Number	Size	Ø A Max	Ø B Max	C Thread 2A	Ø D -0.3	E Approx
MS25042-10D	10S,10SL	18.5	17.2	5/8-24 NEF	4.2	102
MS25042-12D	12S,12	20.4	21.4	3/4-20 NEF	4.2	114
MS25042-14D	14S,14	23.6	21.4	7/8-20 NEF	4.2	114
MS25042-16D	16S,16	26.0	21.4	1-20 NEF	4.2	114
MS25042-18D	18	29.9	21.4	1/8-18 NEF	4.2	114
MS25042-20D	20	33.1	21.4	1/4-18 NEF	4.2*	127
MS25042-22D	22	36.2	21.4	3/8-18 NEF	4.2*	127
MS25042-24D	24	39.4	21.4	1/2-18 NEF	4.2*	140
MS25042-28D	28	45.7	21.4	3/4-18 NS	4.2*	197
MS25042-32D	32	52.0	21.4	2-18 NS	4.2**	197
MS25042-36D	36	59.0	21.4	1/4-16 UN	4.2**	197

These externally threaded metal dust caps are used to protect the MS3106 and MS3108 plugs.

Material is aluminum alloy. They are furnished with sash chains and are available with bead chains.

Optional termination holes are also available. (*5.0) (**5.8)

Receptacle Protection Cap MS25043



Part Number	Size	Ø A Max	Ø B Max	C Thread 2A	Ø D -0.3	E Approx
MS25043-10D	10S,10SL	20.2	15.8	5/8-24 NEF	4.2	102
MS25043-12D	12S,12	23.4	15.8	3/4-20 NEF	4.2	114
MS25043-14D	14S,14	27.9	15.8	7/8-20 NEF	4.2	114
MS25043-16D	16S,16	29.8	15.8	1-20 NEF	4.2	114
MS25043-18D	18	32.2	15.8	1 1/8-18 NEF	4.2	114
MS25043-20D	20	36.3	15.8	1 1/4-18 NEF	4.2	127
MS25043-22D	22	39.9	15.8	1 3/8-18 NEF	4.2	127
MS25043-24D	24	43.7	15.8	1 1/2-18 NEF	4.2*	140
MS25043-28D	28	50.0	15.8	1 3/4-18 NS	4.2*	197
MS25043-32D	32	56.5	15.8	?-18 NS	4.2**	197
MS25043-36D	36	61.5	15.8	2 1/4-16 UN	4.2**	197

These internally threaded metal dust caps are used to protect MS3100, MS3101 and MS3102 receptacles.

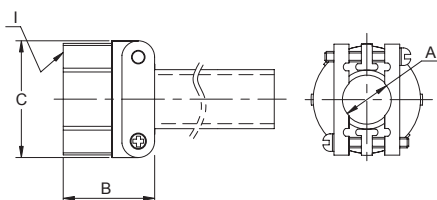
Metal is aluminum alloy. They are furnished with sash chains and are available with bead chains.

Optional termination holes are also available. (*4.58) (**5.00)

MIL-C-5015 Connectors MS/DS Series

Accessories Dimension

Cable Clamp MS3057

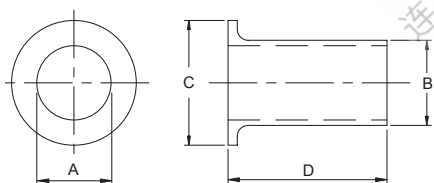


Part Number	Size	Ø A ±0.4	B ±0.8	Ø C ±0.8	I Thread-2B
MS3057-4A	10SL,12S	5.6	20.3	23.3	5/8-24 NEF
MS3057-6A	14S,14	7.9	22.5	25.9	3/4-20 NEF
MS3057-8A	16S,16	11.1	24.4	28.9	7/8-20 NEF
MS3057-10A	18	14.3	23.6	32.2	1-20 NEF
MS3057-12A	20,22	15.9	23.6	37.8	1 3/16-18 NEF
MS3057-16A	24,28	19.1	26.0	43.4	1 7/16-18 NEF
MS3057-20A	32	23.8	27.7	52.1	1 3/4-18 NS
MS3057-24A	36	31.8	29.2	57.3	2-18 NS

MS3057 style cable clamp was designed for use with jacketed cable or wire protected by tubing.

Both clamping halves float maximum strain relief. for unjacketed cable or wires, use corresponding MS3420 telescoping bushing. To order clamp without bushing, add-1 to the P/N.

Telescoping Bushing MS3420



Part Number	Size	Ø A Max	Ø B Max	Ø C	D
MS3420-4	10SL,12S	5.6	7.7	12.8	69.9
MS3420-6	14S,14	7.9	10.9	15.7	66.7
MS3420-8	16S,16	11.1	14.0	18.9	63.5
MS3420-10	18	14.3	15.6	22.6	60.3
MS3420-12	20,22	15.9	18.8	27.5	57.2
MS3420-16	24,28	19.1	23.6	33.4	54.0
MS3420-20	32	23.8	31.5	40.6	50.8
MS3420-24	36	31.8	34.7	46.9	47.6

Telescoping grand bushings (used with 3057 clamp) keep dirt, oil and moisture out of endbell.

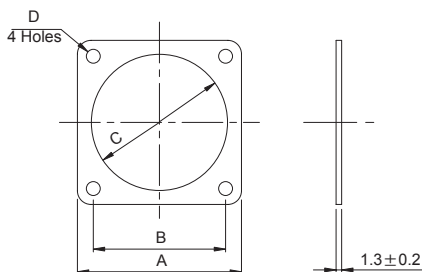
Taping or wrapping wires is eliminated since bushing protects wires going thru clamp.

Combinations of bushing may be used to decrease cable entry diameter to improve sealing.

MIL-C-5015 Connectors MS-A Class

Accessories Dimension

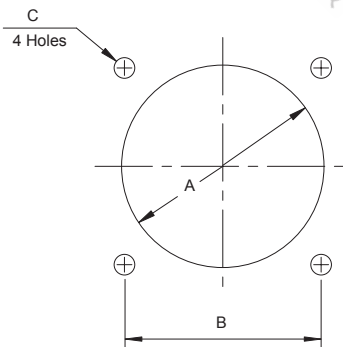
Sealing Gasket BMA 31



Part Number	Shell Size	□ A	□ B	∅ C	D +0.2
BMA31-10	10S,10SL	25.40	18.26	14.9	3.2
BMA31-12	12S,12	27.79	20.62	16.4	3.2
BMA31-14	14S,14	30.18	23.01	20.4	3.2
BMA31-16	16S,16	32.54	24.61	23.0	3.2
BMA31-18	18	34.94	26.97	25.9	3.2
BMA31-20	20	38.10	29.36	29.1	3.2
BMA31-22	22	41.28	31.75	32.0	3.2
BMA31-24	24	44.45	34.93	35.3	3.8
BMA31-28	28	50.80	39.67	41.5	3.8
BMA31-32	32	57.15	44.45	47.5	4.6
BMA31-36	36	63.50	49.23	54.7	4.6

The flat gasket of synthetic rubber material is provided to take complete advantage of waterproof and pressure sealing features. It is use with the flange mounted receptacle.

Panel Mounting Hole(Reference)



Shell Size	∅ A ±0.5	□ B ±0.12	C +0.2
10SL	17.5	18.26	3.2
12S	18.5	20.62	3.2
12	18.5	20.62	3.2
14S	22.0	23.01	3.2
14	22.0	23.01	3.2
16S	25.0	24.61	3.2
16	25.0	24.61	3.2
18	30.0	26.97	3.2
20	33.0	29.36	3.2
22	35.0	31.75	3.2
24	39.0	34.93	3.8
28	45.0	39.67	3.8
32	52.0	44.45	4.6
36	59.0	49.23	4.6

mil - c - 5015连接器

MS基本结构

MIL-C-5015连接器满足MIL-C-5015的最新性能要求。

这些连接器代表了久经考验的电气能力，对于大多数耐用性很重要的设备来说，成本是可以接受的。MIL-C-5015具有螺纹耦合和单键和键槽极化，代表了设计的最大简单性。应用范围包括工业机械、军事地面支持设备、军械及船上装置。MIL-C-5015连接器可提供A, B, E/F, R类，还提供一系列接地前连接器。因此，您总能在德索工厂找到合适的连接器，以满足您可能拥有的条件和性能要求。

1. Characteristic

Insulation resistance.	5,000 Mega ohms minimum(at 25 °C)
Temperature range	-55°C to 125°C
Durability	500 Cycle connection/Disconnection

2. Dielectric with standing voltage

Service rating	Test voltage AC(rms)	Operating voltage	
		AC	DC
Inst	1,000	200	250
A	2,000	500	700
D	2,800	900	1,250
E	3,500	1,250	1,750
B	4,500	1,750	2,450
C	7,000	3,000	4,200

3. Contact engagement and seperation forces

Contact mating end size	Minimum separation force(ounce)	Maximum average engagement force (ounce)	Maximum average engagement force (ounce)
#16	2	24	30
#12	3	24	30
#8	5	-	160
#4	10	-	240
#0	15	-	320

4. Electrical data

Contact size	Pin contact Diam,	Solder Pot Diam,	Rated Current (Mated with insulators)	Contact resistance	
				Test current DC A	Potential Drop(Max) mV
#16	1.6	1.9	13A	13A	49
#12	2.4	3.0	23A	23A	42
#8	3.6	5.4	46A	46A	26
#4	5.7	8.4	80A	80A	23
#0	9.1	12.2	150A	150A	21

5. Wire range accommodations

Size	A.W.G	Wire normal square size(mm²)	Dielectric material outer diam.
#16	#22~#16	≤1.3	1.7~3.3
#12	#14~#12	≤3.5	2.9~4.3
#8	#10~#8	≤8.0	4.2~6.4
#4	#6~#4	≤22.0	7.0~9.4
#0	#2~#0	≤50.0	10.6~14.0



MIL-C-5015 Connectors MS/DS Series

How to order

MIL-C-5015 (Solder Contacts)

MS **3102** **A** **18-10** **P** **W** **XXX**
1 **2** **3** **4** **5** **6** **7** **8**

1. Connector Type
MS - designates Military Standard
DS - MIL- C-5015 Europe use
2. Connector Style
3100- wall mounting receptacle
3101- cable connecting plug
3102- box mounting receptacle
3106- straight plug
3108- 90° Right angle plug
3. Service Class
A - General purpose, Solid Endbell
E - Environmental resisting, with grommet seal & strain relief back shell
F - Environmental resisting with grommet seal & strain relief back shell
3106F and 3108E style include a front 'O' ring seal
R - Environmental resisting with grommet seal, light weight and shorter
Overall length 310R style include a front 'O' ring seal
- 4, 5. Shell size and insert arrangement - see tables, page 26.27
6. Contact Types
P- designates pin contact, (+) Male
S- designates socket contact, (-) Female
7. Insert Rotation
No suffix-Normal
"W", "X", "Y", or "Z" - See page 26.27
8. Plating information
No suffix - Olive Drab Zinc
CD - Cadmium
C1 - Cobalt (Without +6 Cr)
621 - Black Zinc
689 - Electro-less Nickel
426 - Electro-less Nickel & gold flash contacts

MIL-C-5015 (Crimp Contacts)

MS **4102** **A** **18-10** **P** **W** **XXX**
1 **2** **3** **4** **5** **6** **7** **8**

1. Connector Type
MS - designates Military Standard
2. Connector Style
4100 - wall mounting receptacle
4101 - cable connecting plug
4102 - box mounting receptacle
4106 - straight plug
4108 - 90° Right angle plug
3. Service Class
A - General purpose, Solid Endbell
E - Environmental resisting, with grommet seal & strain relief back shell
F - Environmental resisting with grommet seal & strain relief back shell
3106F and 3108E style include a front 'O' ring seal
R - Environmental resisting with grommet seal, light weight and shorter
Overall length 310R style include a front 'O' ring seal
- 4, 5. Shell size and insert arrangement - see tables, page 26.27
6. Contact Types
P- designates pin contact, (+) Male
S- designates socket contact, (-) Female
7. Insert Rotation
No suffix - Normal
"W", "X", "Y", or "Z" - See page 26.27
8. Plating information
No suffix - Olive Drab Zinc
CD - Cadmium
C1 - Cobalt (Without +6 Cr)
621 - Black Zinc
689 - Electro-less Nickel
426 - Electro-less Nickel & gold flash contacts