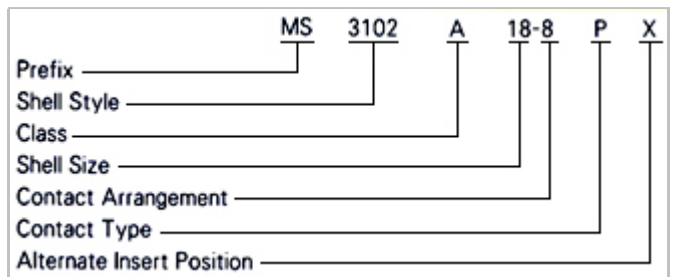


MS series

Standard MS Connectors
(MIL-C-5015)
ISO 9001/9002



● 품명 구성 (Ordering Information)



● Prefix

MS-Military standard 의 略字이며 적용규격은 MIL-C-5015 임

● Shell Style

- 3100 – Wall mounting receptacle
- 3101 – Cable connecting plug
- 3102 – Box mounting receptacle
- 3106 – Straight plug
- 3108 – 90' angle plug

● Class

MS Class	Application
A	General purpose - Solid endbell
B	General purpose - Split endbell
C	Pressurized - Receptacle
E	Environment Resistant
K	Fire & Flame Resistant
R	Environment Resistant

● Material & Finish

- Shell - high Grade Aluminum alloy Die-Casting, olive drab Chromate over cadmium or Zinc plating.
- Insulator - Bulk molding Compound (polyester) & polychloropren rubber ("A" class only)
- Contacts - High conductive copper alloy or Bress, 100 ㎛ Inches Silver plating.
- Contact Retention clip-Heat treated beryllium copper.

The standard "MS" connector range was originally developed over 50 years ago for the Military forces and has since been adopted for use in various other industries where low cost and high reliability are essential.

These connectors are made in a high grade aluminium alloy and can be supplied with a cadmium, or the now more popular zinc plating where the use of cadmium is prohibited.

For general industrial usage the connectors are supplied as an unsealed version or if preferred with wire sealing grommets for environmental conditions. The "E" and "F" connectors have a mechanical cable clamp based on the popular Cannon design. The "R" type connectors can also be supplied with a lightweight and shorter endbell and both this and the "F" version have an additional "O" ring seal under the coupling nut for a better interfacial seal.

These connectors have a threaded coupling nut for ease of application and require no tooling as the contacts are manufactured for solder termination.

The standard finish is olive drab green but we can offer a bright nickel finish if required subject to a minimum order quantity.

● 결합 안내 (Mating Guide)



● 일반 사양 (Specification)

● Contact Current Capacity

The rated current of a connector will change depending on the number of contact composing the connector and also the contact size. The table below shows the maximum permissible value per contact when assembled in an insulator

Contact size	Diameter of the contacting part of pin contact	Current Capacity (Amps)	
		Contact unit	Assembled in insulator
# 16	.063 inch(1.6mm)	22	13
# 12	.094 inch(1.4mm)	41	23
# 8	.142inch(3.6mm)	73	46
# 4	.224 inch(5.7mm)	135	80
# 0	.358 inch(9.1mm)	245	150

● Voltage Rating

Classification Code	Test Voltage (RMS)	Operating Voltage		Air Spacing Nominal	Creepage Distance Nominal
		D.C	A.C(RMS)		
INST	1000	250	200	—	.063inch (1.6mm)
A	2000	700	500	.063inch (1.6mm)	.126inch (3.2mm)
D	2800	1250	900	.126inch (3.2mm)	.189inch (4.8mm)
E	3500	1750	1250	.189inch (4.8mm)	.252inch (6.4mm)
B	4500	2450	1750	.252inch (6.4mm)	.311inch (7.9mm)
C	7000	4200	3000	.311inch (7.9mm)	1.0inch (25.4mm)

● Compatble Wire Size

Contact		Applicable Wire Size	
Size	Solder pot diameter	Wire size(AWG)	Conductor cross-section area
# 16	.073 inch (1.85mm)	# 16 ~ # 22	1.25mm ² max.
# 12	.116 inch (2.95mm)	# 12 ~ # 14	3.5mm ² max.
# 8	.209 inch (5.31mm)	# 8 ~ # 10	8mm ² max.
# 4	.333 inch (8.45mm)	# 4 ~ # 6	22mm ² max.
# 0	.469 inch (11.91mm)	# 0 ~ # 2	50mm ² max.

Insulation Resistance	5,000MΩ Minimum (at 25℃)
Temperature Range	— 55 ℃ to 125 ℃
Durability	500Cycle Connection/ Disconnection

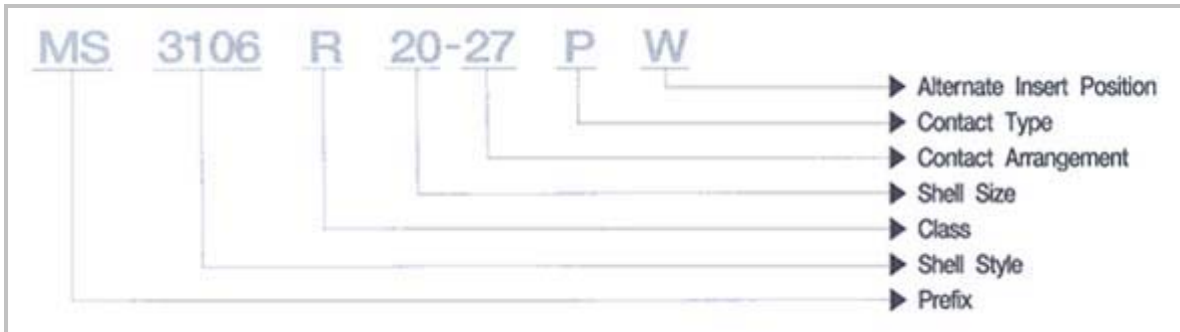
- Thermal shock-MIL-STD-202 Method 107
- Temperature range(— 55℃~ 125℃)
- Humidity : - Relative humidity : 95%±3%
- Temperature : 71℃±2℃
- Time : 14days
- Vibration : - MIL-STD-1344 method 2005
- 10~500Hz 0r 10G units
- sweptime : 15minutes
- test current : 100mA
- Shock, Electrical : 1/2 sine wave Transient shock impulses of 50G units
- Time : 11±1μ sec
- Test current : 100mA
- Salt spray : - MIL-STD-1344, Method 1001
- Salt solution : 5%
- Time : 48Hours
- Durability -500 mating/umating operatings
- Contact engaging and separating forces.
- 16 Contact, 2 kg Min, 48 kg Max.
- 12 Contact, 3 kg Min, 80 kg Max.
- 8 Contact, 5 kg Min, 160 kg Max.
- 4 Contact, 10 kg Min, 240 kg Max.
- 0 Contact, 15 kg Min, 329 kg Max.

* If you want more detailed information, please call international business department .

MIL-C-5015 Series Special Environment Type

MS-E.F.R Solder Type Series

Ordering Information



PREFIX

MS — Conforms to latest MIL -C-5015 revision

CLASS

E/F — Environmental with resilient insulators and integral cable clamp.

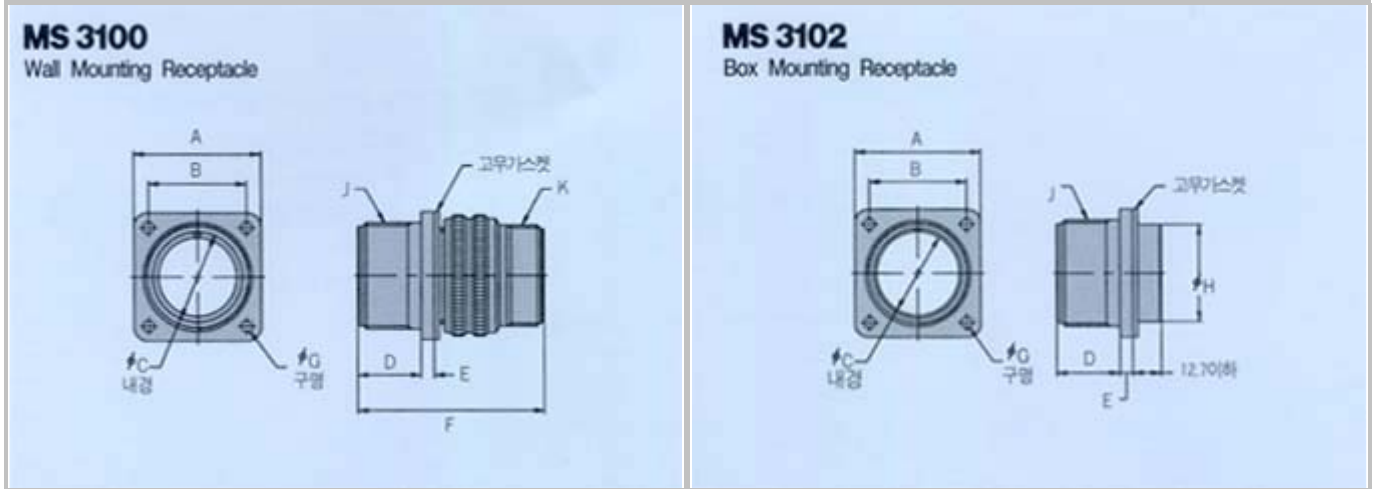
R — Environmental with resilient insulators and shortened light weight end bell; also additional sealing with O ring under coupling nut in styles 3106 and 3108

	MS-3106R STRAIGHT PLUG	MS-3106F STRAIGHT PLUG	MS-3106E STRAIGHT PLUG
ENDBELL			
FERRULE			
GROMMET			
PIN CONTACTS			
INSULATOR			
COUPLING NUT			
BARREL			
O RING			

MSseries

Standard MS Connectors (MIL-C-5015)

RECEPTACLES

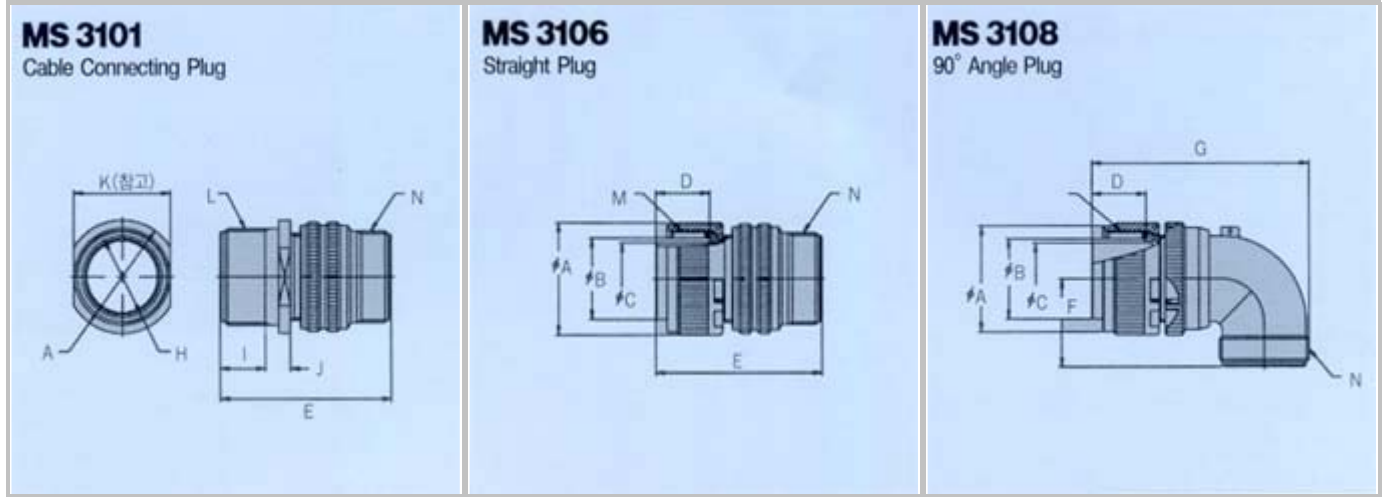


shell Size	A ±0.79	B ±0.12	ΦC +0.38 -0.00	D +0.79 -0.00	E Max/Min	F Max	ΦG +0.25 -0.12	H +0.00 -4.77	J Thread-2A	K Thread-2A
8S	22.23	15.09	9.40	14.28	3.96/1.58	37.31	3.05	13.51	½ - 28UNEF	½ - 28UNEF
10S	25.40	18.26	11.38	14.28	3.96/1.58	38.88	3.05	16.60	⅝ - 24UNEF	½ - 28UNEF
10SL	25.40	18.26	11.38	14.28	3.96/1.58	38.88	3.05	19.35	⅝ - 24UNEF	⅝ - 24UNEF
12S	27.79	20.62	14.15	14.28	3.96/1.58	42.87	3.05	19.35	¾ - 20UNEF	⅝ - 24UNEF
12	27.79	20.62	14.15	19.05	3.96/1.58	52.37	3.05	19.35	¾ - 20UNEF	⅝ - 24UNEF
14S	30.18	23.01	17.33	14.28	3.96/1.58	42.87	3.05	23.01	⅞ - 20UNEF	¾ - 20UNEF
14	30.18	23.01	17.33	19.05	3.96/1.58	52.37	3.05	23.01	⅞ - 20UNEF	¾ - 20UNEF
16S	32.54	24.61	20.50	14.28	3.96/1.58	42.81	3.05	26.21	1 - 20UNEF	⅞ - 20UNEF
16	32.54	24.61	20.50	19.05	3.96/1.58	52.37	3.05	26.21	1 - 20UNEF	⅞ - 20UNEF
18	34.93	26.97	23.68	19.05	5.15/2.39	52.37	3.05	29.36	1⅛ - 18UNEF	1 - 20UNEF
20	38.10	29.36	26.88	19.05	5.15/2.39	55.57	3.05	32.56	1¼ - 18 UNEF	1 3/16 - 18UNEF
22	41.28	31.78	30.03	19.05	5.15/2.39	55.57	3.05	35.71	1⅝ - 18 UNEF	1 3/16 - 18UNEF
24	44.45	34.93	33.20	20.63	5.15/2.39	58.72	3.73	38.91	1½ - 18UNEF	1 7/16 - 18UNEF
28	50.80	39.67	38.77	20.63	5.15/2.39	58.72	3.73	45.26	1¾ - 18 UNS	1 7/16 - 18UNEF
32	57.15	44.45	45.12	22.23	9.11/3.18	61.92	4.39	51.61	2 - 18UNS	1¼ - 18UNS
36	63.50	49.23	50.68	22.23	9.11/3.18	61.92	4.39	57.96	2¼ - 16UN	2 - 18UNS
40	69.85	55.58	57.03	22.23	9.11/3.18	61.92	4.39	64.31	2½ - 16UN	2¼ - 16UN
44	76.20	60.33	63.38	22.23	9.11/3.18	65.07	4.39	70.66	2¾ - 16UN	2½ - 16UN
48	82.55	66.68	69.73	22.23	9.11/3.18	65.07	4.39	77.01	3 - 16UN	3 - 16UN

MSseries

Standard MS Connectors (MIL-C-5015)

PLUGS

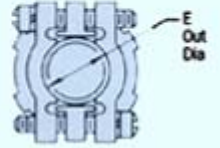
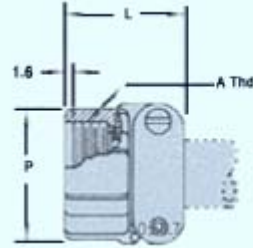
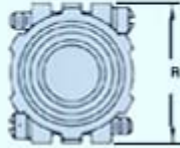


she11 Size	ΦA MAX	ΦB + 0.00 - 0.25 (외경)	ΦC +0.38 -0.00 (내경)	D ± 0.12	E MaX	F MaX	G MaX	H +0.38 - 0.00 (내경)	I Min	J Max	K Max	L(-24), M(-2B) Thread	N Thread-2A
8S	21.43	9.27	6.41	13.49	37.31	23.82	44.45	9.40	9.53	1.57	13.46	½ - 28UNEF	½ - 28UNEF
10S	24.61	11.18	8.21	13.49	38.88	25.40	44.45	11.38	9.53	2.06	16.66	⅝ - 24UNEF	½ - 28UNEF
10SL	24.61	11.33	10.06	13.49	38.88	25.40	46.02	11.38	9.53	1.57	16.66	⅝ - 24UNEF	⅝ - 24UNEF
12S	26.97	14.10	11.43	13.49	42.87	26.97	50.80	14.15	9.53	1.57	19.43	¾ - 20UNEF	⅝ - 24UNEF
12	26.97	14.10	11.43	18.26	52.37	26.97	57.15	14.15	15.88	1.98	19.43	¾ - 20UNEF	⅝ - 24UNEF
14S	29.36	17.15	13.37	13.49	42.87	28.57	53.97	17.33	9.53	1.83	22.60	⅞ - 20UNEF	¾ - 20UNEF
14	29.36	17.15	13.37	18.26	52.37	28.57	58.72	17.33	15.88	1.98	22.60	⅞ - 20UNEF	¾ - 20UNEF
16S	31.75	20.45	16.54	13.49	42.87	30.17	60.32	20.50	9.53	1.83	25.78	1 - 20UNEF	⅞ - 20UNEF
16	31.75	20.45	16.54	18.26	52.37	37.17	65.07	20.50	15.88	1.98	25.78	1 - 20UNEF	⅞ - 20UNEF
18	34.13	23.62	19.72	18.26	52.37	33.32	68.27	23.68	15.88	2.77	28.95	1⅛ - 18UNEF	1 - 20UNEF
20	37.31	26.67	23.68	18.26	55.57	34.92	76.98	26.88	15.88	2.77	32.13	1¼ - 18 UNEF	1 3/16 - 18UNEF
22	40.48	29.85	26.07	18.26	55.57	34.92	76.98	30.03	18.88	2.97	35.30	1⅝ - UNEF	1 3/16 - 18UNEF
24	43.66	33.02	29.247	18.26	58.72	39.67	86.51	33.20	15.88	2.97	38.48	1½ - UNEF	1 7/16 - 18UNEF
28	50.01	38.61	34.80	18.26	58.72	39.67	86.51	38.77	15.88	2.97	44.83	1¾ - UNS	1 7/16 - 18UNEF
32	56.36	44.96	41.15	18.26	61.92	47.62	95.25	45.12	15.88	2.97	51.18	2 - 18UNS	1¾ - UNS
36	62.71	50.29	46.69	18.26	61.92	52.37	100.02	50.68	15.88	2.97	57.65	2¼ - 16UN	2 - 18UNS
40	69.06	56.64	52.25	18.26	61.92	53.97	120.65	57.03	15.88	-	-	2½ - 16UN	2¼ - 16UN
44	75.41	63.12	58.67	18.26	65.07	57.15	120.65	63.38	15.88	-	-	2¾ - 16UN	2½ - 16UN
48	81.76	69.47	65.02	18.26	65.07	60.33	127.79	69.73	15.88	-	-	3 - 16UN	3 - 16UN

MSseries

Standard MS Connectors (MIL-C-5015)

MS 3057 Cable Clamp

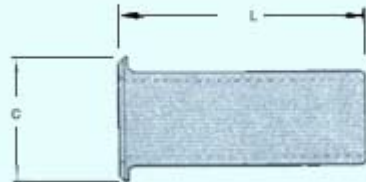


Superseded Part Number*	Fits Shell Size	E Min	E Max	L ±0.79	P ±0.79	R ±0.79	A Thread
MS3057-3A	8S - 10S	2.59	6.35	20.62	17.48	20.62	½ - 28UNEF-2B
MS3057-4A	10SL, 12SL, 12	3.56	7.92	20.62	20.62	22.22	⅝ - 24UNEF-2B
MS3057-6A	14S, 14	4.95	11.13	22.22	24.61	26.97	¾ - 20UNEF-2B
MS3057-8A	16S, 16	6.48	14.27	23.83	27.79	29.36	⅞ - 20UNEF-2B
MS3057-10A	18	7.24	15.88	23.83	30.18	31.75	1 - 20UNEF-2B
MS3057-12A	20, 22	8.89	19.05	23.83	34.92	37.31	1 3/16-18UNEF-2B
MS3057-16A	24, 28	11.89	23.83	26.19	42.06	42.88	1 7/16-18UNEF-2B
MS3057-20A	32	16.87	31.75	27.79	51.59	51.59	1 ¼ - 18UNS-2B
MS3057-24A	36	17.63	34.92	29.36	56.36	57.94	2 - 18UNS-2B
MS3057-28A	40	23.14	41.28	42.88	63.50	68.28	2 ¼ - 16UN-2B
MS3057-32A	44	-	47.62	44.45	70.64	74.63	2 ½ - 16UN-2B
MS3057-40A	48	-	60.32	44.45	83.34	39.90	3 - 16UN-2B

HOW TO ORDER

→ Part Number

MS 3420 Rubber Bushing



HOW TO ORDER

→ Part Number
Material is
Polychloroprene

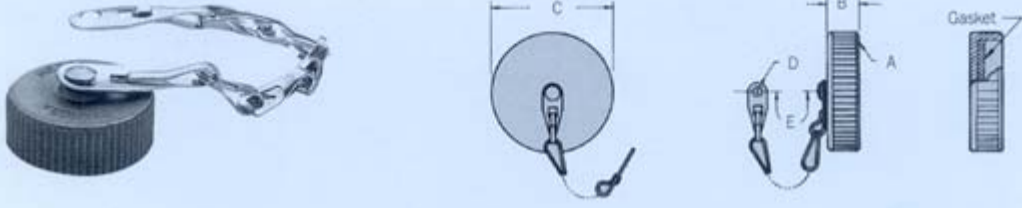
MS Part Number	Fits Shell Size	C ±0.41	L ±0.79	R ±0.41
MS3420-3	8S - 10S	9.63	73.02	3.30
MS3420-4	10SL, 12SL, 12	12.83	69.85	5.59
MS3420-6	14S, 14	15.72	66.68	7.92
MS3420-8	16S, 16	18.90	63.50	11.10
MS3420-10	18	22.07	60.32	14.27
MS3420-12	20, 22	27.03	57.15	15.88
MS3420-16	24, 28	33.38	53.98	19.05
MS3420-20	32	40.54	50.80	23.80
MS3420-24	36	46.91	47.62	31.75
MS3420-28	40	52.96	44.45	34.92
MS3420-32	44	59.31	41.28	41.25
MS3420-40	48	72.01	38.10	47.60

MSseries

Standard MS Connectors (MIL-C-5015)

Protective Cap

MS 25043



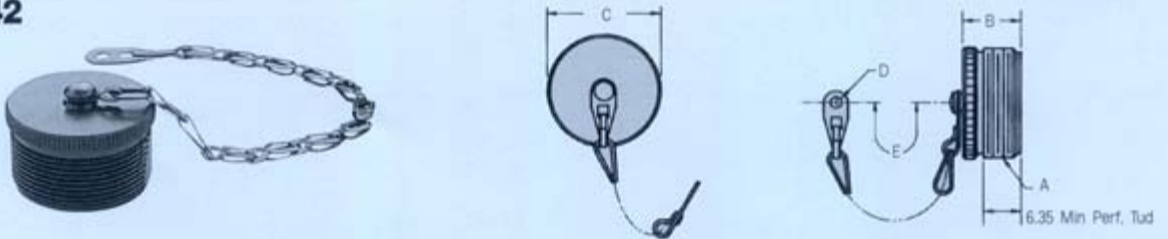
HOW TO ORDER

MS 25043 - 18D

- ▶ Shell Size
- ▶ Class
- ▶ Prefix

Superseded MS Number	Fits Shell Size	B Max	C Dia Max	E Max	D Dia Max	A Thread
MS25043-8D	8S	11.91	17.48	114.30	3.81	½-28UNEF-2B
MS25043-10D	10S,10SL	11.91	20.70	114.30	3.81	⅝-24UNEF-2B
MS25043-12D	12S,12SL	11.91	25.40	127.00	3.81	¾-20UNEF-2B
MS25043-14D	14,14S	11.91	28.58	127.00	3.81	⅞-20UNEF-2B
MS25043-16D	16,16S	11.91	30.18	127.00	3.81	1-20UNEF-2B
MS25043-18D	18	11.91	34.14	127.00	3.81	1⅛-18UNEF-2B
MS25043-20D	20	11.91	37.31	139.70	3.81	1¼-18UNEF-2B
MS25043-22D	22	11.91	40.49	152.40	3.81	1⅝-18UNEF-2B
MS25043-24D	24	11.91	43.66	209.55	4.60	1½-18UNEF-2B
MS25043-28D	28	13.49	50.01	209.55	5.00	1¾-18UNS-2B
MS25043-32D	32	13.49	56.36	209.55	5.00	2-18UNS-2B
MS25043-36D	36	13.49	62.71	209.55	5.00	2¼-16UN-2B
MS25043-40D	40	13.49	69.06	209.55	5.00	2½-16UN-2B
MS25043-44D	44	13.49	75.41	209.55	5.00	2¾-16UN-2B
MS25043-48D	48	13.49	80.98	209.55	5.00	3-16UN-2B

MS 25042



HOW TO ORDER

MS 25042 - 20D

- ▶ Shell Size
- ▶ Class
- ▶ Prefix

Superseded MS Number	Fits Shell Size	B Max	C Dia Max	E Max	D Dia Max	A Thread
MS25042-8D	8S	16.66	14.27	114.30	4.22	½-28UNEF-2A
MS25042-10D	10S,10SL	16.66	17.45	114.30	4.22	⅝-24UNEF-2A
MS25042-12D	12S,12SL	21.44	20.62	127.00	4.22	¾-20UNEF-2A
MS25042-14D	14,14SL	21.44	23.80	127.00	4.22	⅞-20UNEF-2A
MS25042-16D	16,16SL	21.44	26.97	127.00	4.22	1-20UNEF-2A
MS25042-18D	18	21.44	30.15	127.00	4.22	1⅛-18UNEF-2A
MS25042-20D	20	21.44	33.32	139.70	5.00	1¼-18UNEF-2A
MS25042-22D	22	21.44	36.50	152.40	5.00	1⅝-18UNEF-2A
MS25042-24D	24	21.44	39.67	209.55	5.00	1½-18UNEF-2A
MS25042-28D	28	21.44	46.02	209.55	5.00	1¾-18UNS-2A
MS25042-32D	32	21.44	52.37	209.55	5.79	2-18UNS-2A
MS25042-36D	36	21.44	58.72	209.55	5.79	2¼-16UN-2A
MS25042-40D	40	21.44	65.07	209.55	5.79	2½-16UN-2A
MS25042-44D	44	21.44	71.42	209.55	5.79	2¾-16UN-2A
MS25042-48D	48	21.44	77.77	209.55	5.79	3-16UN-2A

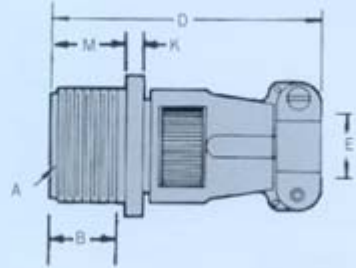
MSseries

Standard MS Connectors (MIL-C-5015)

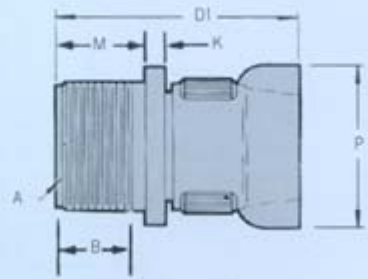
■ Wall Mounting Receptacle

MS 3100E, MS 3100F Type

Integral Cable Clamp



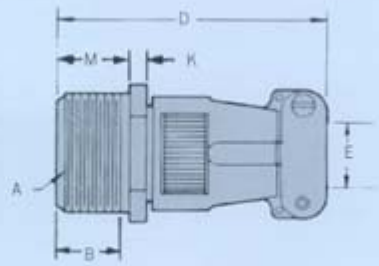
MS 3100R Type



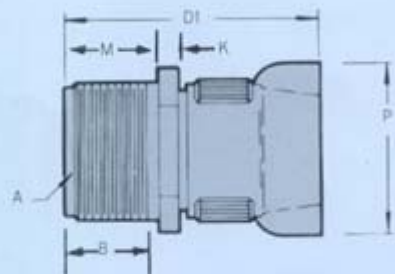
■ Cable Connecting Plug

MS 3101E, MS 3101F Type

Integral Cable Clamp



MS 3101R Type



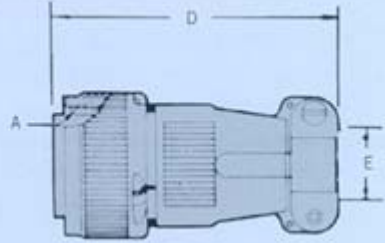
MSseries

Standard MS Connectors (MIL-C-5015)

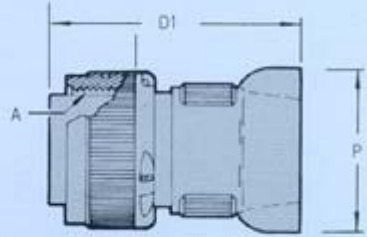
■ Straight Plug

MS 3106E, MS 3106F Type

Integral Cable Clamp



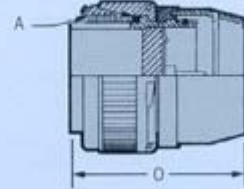
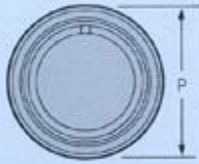
MS 3106R Type



■ Straight Plug Port Type

MS 25183

Nylon Potting Cup



■ Box Mounting Receptacle (MS3102E / MS3102R refer to MS3102A) 90° Angle Plug (MS3108E / MS3108R refer to MS3108A)

Shell Size	B Min	E Max	P Max	K Max	D Max	D1 Max	M +0.79 -0.00	O Max	A Thread
8S	9.53	5.97	21.44	3.18	57.15	46.69	14.27	39.67	½-28UNEF-2B
10S	9.53	5.97	24.61	3.18	57.15	46.69	14.27	39.67	¾-24UNEF-2B
10SL	9.53	7.54	24.61	3.18	57.15	46.69	14.27	39.67	¾-24UNEF-2B
12S	9.53	7.54	26.97	3.56	57.15	46.69	14.27	39.67	¾-20UNEF-2B
14S	9.53	10.72	29.36	3.56	57.15	46.69	14.27	39.67	¾-20UNEF-2B
16S	15.88	13.89	31.75	3.56	57.15	46.69	14.27	39.67	1-20UNEF-2B
12	15.88	7.54	26.97	3.71	66.68	55.40	19.05	50.80	¾-20UNEF-2B
14	15.88	10.72	29.36	3.71	66.68	55.40	19.05	50.80	¾-20UNEF-2B
16	15.88	13.89	31.75	3.71	66.68	55.40	19.05	50.80	1-20UNEF-2B
18	15.88	15.49	34.14	4.57	68.28	55.40	19.05	50.80	1½-18UNS-2B
20	15.88	18.67	37.31	4.57	69.85	55.40	19.05	53.98	1¼-18UNS-2B
22	15.88	18.80	40.49	4.57	69.85	55.40	19.05	53.98	1¾-18UNS-2B
24	15.88	23.42	43.66	5.16	75.41	55.40	20.62	53.98	1½-18UNS-2B
28	15.88	23.42	50.01	5.16	76.99	55.40	20.62	53.98	1¾-18UNS-2B
32	15.88	31.37	30.96	5.16	76.99	58.98	22.23	55.37	2-18UNS-2B
36	15.88	34.54	62.71	5.16	83.34	58.98	22.23	55.37	2¼-16UN-2B
40	15.88	41.35	69.16	5.16	89.66	61.65	22.23	55.37	2½-16UN-2B

MSseries

Standard MS Connectors (MIL-C-5015)

The polyethylene dust caps provide added protection for precision-built MS connectors during storage and handling, in assembling with other equipment. Protective caps cover threaded sections of plugs and receptacles, assure against damage to thread from any cause permit lowcost, attractive coverings which protect contacts and the insulation from dust, dirt and handing damage.



Part Number	MS3100F,R		MS3102F,R		MS3106/ MS3108F,R	
	Coupling End	Solder Pot End	Coupling End	Solder Pot End	Coupling End	Solder Pot End
YH01-90376				8S	8S	8S, 10S
YH02-90376	8S	8S,10S	8S	8S, 10S		10SL, 12S,12
YH03-90376	10S 10SL	10SL, 12S,12	10S, 10SL	10SL, 12S,12	10SL, 12S,12	14S,14
YH04-90376	12S,12	14S,14	12S,12	14S,14		16S,16
YH05-90376	14S,14	16S,16	14S,14	16S,16		
YH06-90376				18		
YH07-90376				20	20	
YH08-90376	20		20	22		
YH09-90376	22		22	24		
YH10-90376				28		
YH11-90376				32		
YH12-90376				36		
YH13-90376				40		
YH14-90376				44		
YH15-90376				48		
YH16-90376					10S 10SL	
YH17-90376					12S,12	
YH18-90376					14S,14	
YH19-90376					16S,16	
YH20-90376					18	

Part Number	MS3100F,R		MS3102F,R		MS3106/ MS3108F,R	
	Coupling End	Solder Pot End	Coupling End	Solder Pot End	Coupling End	Solder Pot End
YH21-90376						22
YH22-90376						24
YH23-90376						28
YH24-90376						32
YH25-90376						36
YH26-90376						40
YH27-90376						44
YH28-90376						48
YH29-90376	16S,16	18	16S,16	48		18
YH30-90376		20,22		36	22	20,22
YH31-90376		24,28		40		24,28
YH32-90376	28	32	28	44		32
YH33-90376	32	36	32	32		40
YH34-90376	36	40	36	24,28		44
YH35-90376	40	44	40	20,22		48
YH36-90376	48		48	18		
YH37-90376	18		18			
YH38-90376	24		24			
YH39-90376	44	48	44			



MSseries

Standard MS Connectors (MIL-C-5015)

■ (Contact Arrangements)

SHELL SIZE 8



8S-1
1-#16
A

Shell Size
No. of Contacts
Service Rating

SHELL SIZE 10



10S-2
1-#16
A



10SL-3
3-#16
INST(K)
A(ALL OTHERS)



10SL-4
2-#16
A

SHELL SIZE 12



12S-1
2-#16
A



12S-3
2-#16
A



12S-4
1-#16
D



12S-5
1-#12
D

SHELL SIZE 14



14S-1
3-#16
A



14S-2
4-#16
INST



14-3
1-#8
A



14-4
1-#16
D



14S-5
5-#16
INST



14S-6
6-#16
INST



14S-7
3-#16
A



14S-9
2-#16
A



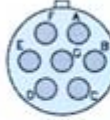
14S-12
3-#16
A

Shell Size
No. of Contacts
Service Rating

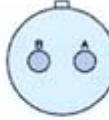
SHELL SIZE 16



16S-01
8-#16



16S-1
7-#16
A



16S-4
2-#16
D



16S-5
3-#16
A



16S-6
3-#16
A



16S-8
5-#16
A



16-9
2-#16
2-#12
A

Shell Size
No. of Contacts
Service Rating

SHELL SIZE 18



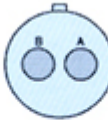
16-10
3-#12
A



16-11
2-#12
A



16-12
1-#4
A



16-13
2-#12
A



18-1
10-#16
A(B,C,F,G)
INST(OTHERS)

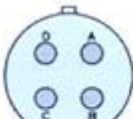


18-2
3-#16
24V

Shell Size
No. of Contacts
Service Rating



18-3
2-#12
D



18-4
4-#16
D



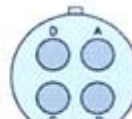
18-5
#16
#12
D



18-8
7-#16
1-#12
A



18-9
5-#16
2-#12
INST



18-10
4-#12
A



18-11
5-#12
A

Shell Size
No. of Contacts
Service Rating



18-12
6-#16
A



18-13
3-#12
1-#8
A



18-14
1-#16
4-#4
A



18-16
1-#12
C



18-18
#16
#12
INST



18-19
10-#16
A



18-20
5-#16
A

Shell Size
No. of Contacts
Service Rating

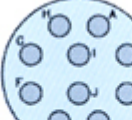
SHELL SIZE 20



18-21
3-#12
A



18-22
3-#16
D



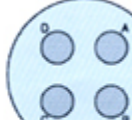
20-01
10-#16



20-2
1-#0
D



20-3
3-#12
D



20-4
4-#12
D

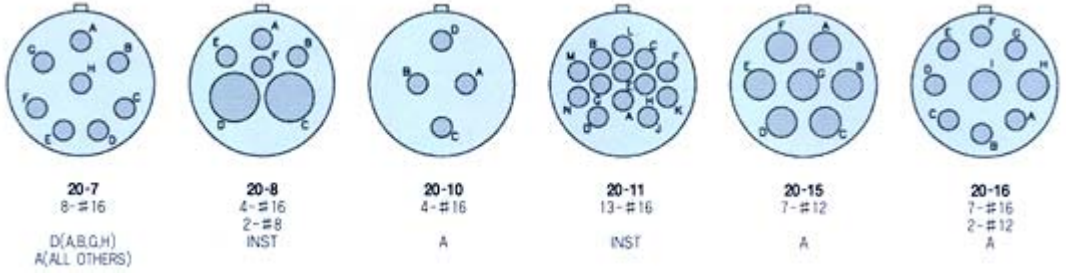
Shell Size
No. of Contacts
Service Rating

1. Pin insert (+절연체)의 전면에서 본 것임.(Face view of pin insert shown ; socket view is opposite)

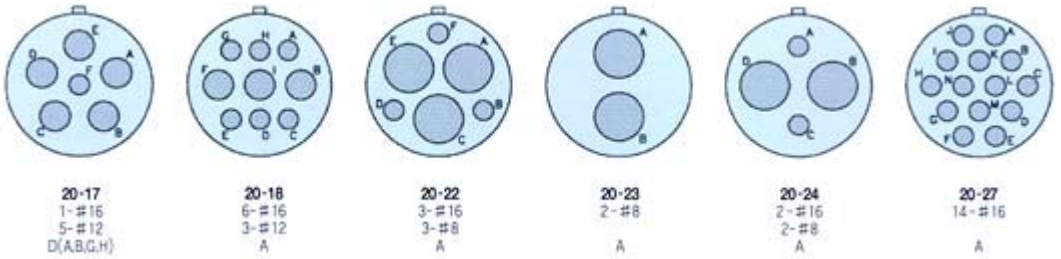
MSseries

Standard MS Connectors (MIL-C-5015)

■ (Contact Arrangements)

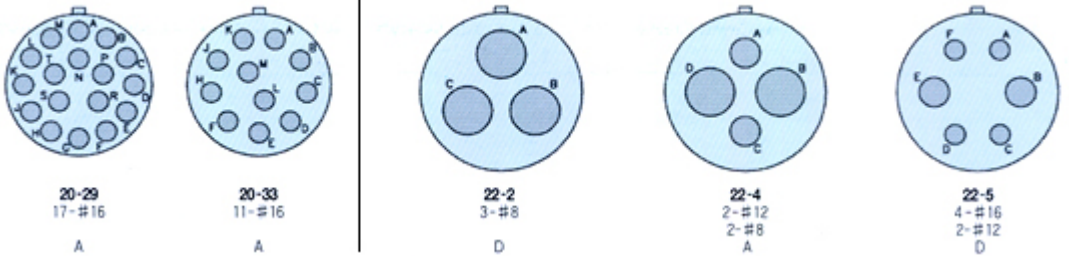


Shell Size
No. of Contacts
Service Rating

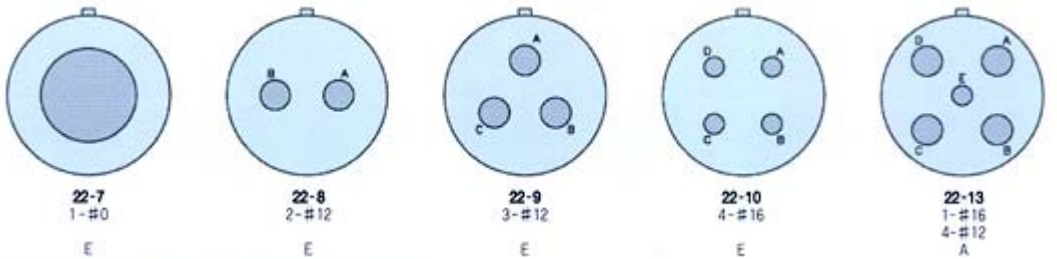


Shell Size
No. of Contacts
Service Rating

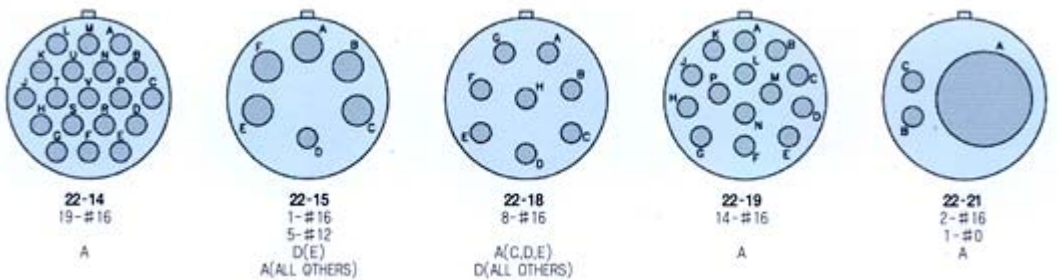
SHELL SIZE 22



Shell Size
No. of Contacts
Service Rating



Shell Size
No. of Contacts
Service Rating



Shell Size
No. of Contacts
Service Rating

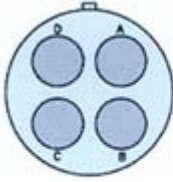
註) 1. Pin insert (+접연체)의 전면에서 본 것임. (Face view of pin insert shown ; socket view is opposite)
2. 본표에 수록되지 않은 많은 내용은 별도로 문의하여 주십시오.

MSseries

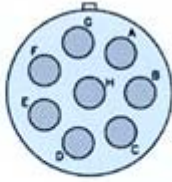
Standard MS Connectors (MIL-C-5015)

■ (Contact Arrangements)

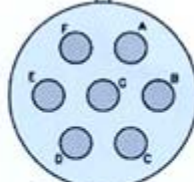
SHELL SIZE 24



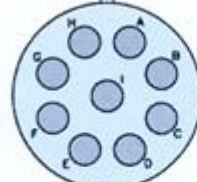
22-22
4-#8
A



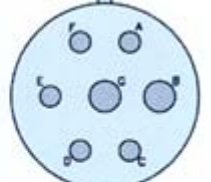
22-23
8-#12
D(H)
A(ALL OTHERS)



24-2
7-#12
D



24-02
9-#12

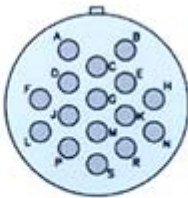


24-3
5-#16
2-#12
A

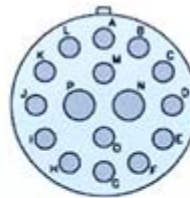
Shell Size
No. of Contacts
Service Rating



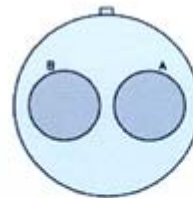
24-4
3-#16
1-#0
D



24-5
16-#16
A



24-7
14-#16
2-#12
A

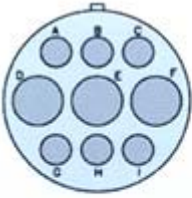


24-9
2-#4
A

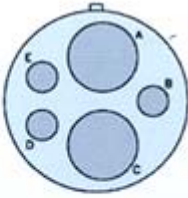


24-10
7-#8
A

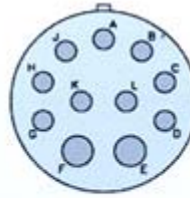
Shell Size
No. of Contacts
Service Rating



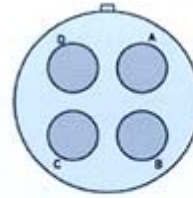
24-11
6-#12
3-#8
A



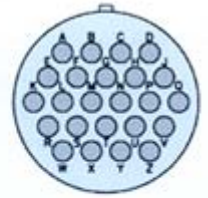
24-12
3-#12
2-#4
A



24-20
9-#16
2-#12
D



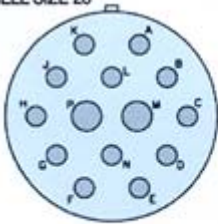
24-22
4-#8
D



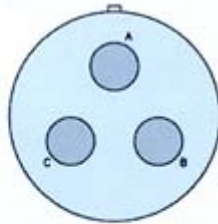
24-28
24-#12
INST

Shell Size
No. of Contacts
Service Rating

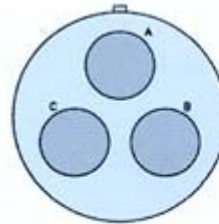
SHELL SIZE 28



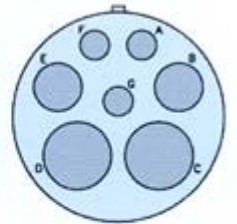
28-2
12-#16
2-#12
D



28-3
3-#8
E

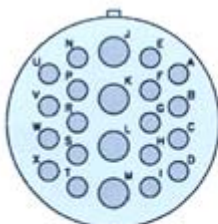


28-6
3-#4
D

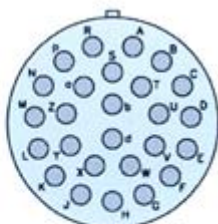


28-10
3-#12
2-#8, 2-#4#
D(G),A(ALL OTHERS)

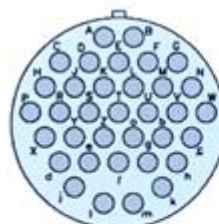
Shell Size
No. of Contacts
Service Rating



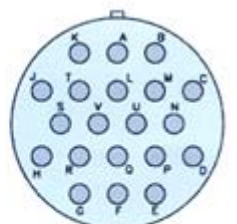
28-11
18-#16
4-#12
A



28-12
26-#16
A



28-15
35-#16
A



28-16
20-#16
A

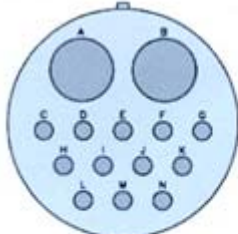
Shell Size
No. of Contacts
Service Rating

註) 1. Pin insert (+절연체)의 전면에서 본 것임.(Face view of pin insert shown ; socket view is opposite)
2. 본 표에 수록되지 않은 많은 내용은 별도로 문의하여 주십시오.

MSseries

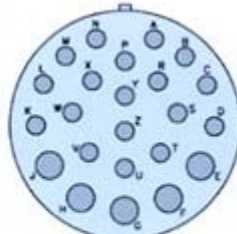
Standard MS Connectors (MIL-C-5015)

■ (Contact Arrangements)

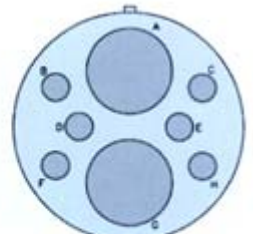


32-9
12-#16
2-#4
D

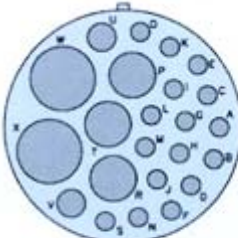
Shell Size
No. of Contacts
Service Rating



32-13
18-#16
5-#12
D

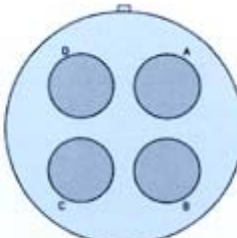


32-15
6-#12
2-#0
D

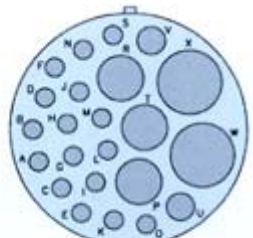


32-16
16-#16, 2-312
3-#8, 2-#4
A

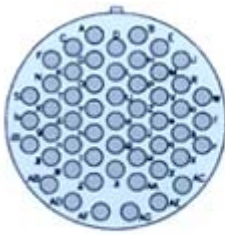
Shell Size
No. of Contacts
Service Rating



32-17
4-#4
D

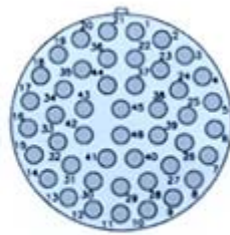


32-20
16-#16, 2-312
3-#8, 2-#4
A



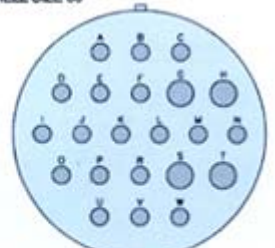
32-22
54-#16
A

Shell Size
No. of Contacts
Service Rating

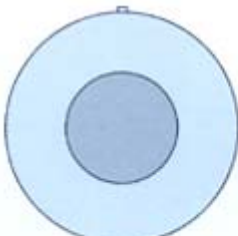


32-73
46-#16
A

SHELL SIZE 36

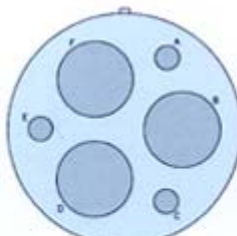


36-1
18-#16
2-#12
D

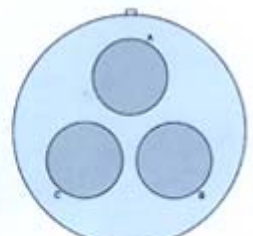


36-03

Shell Size
No. of Contacts
Service Rating



36-3
3-#12
3-#0
D



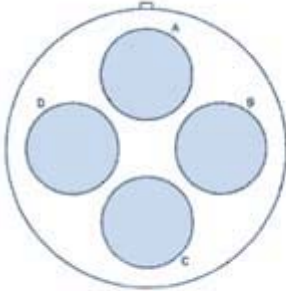
36-4
3-#0
D(A), A(B,C)

註) 1. Pin insert (+접연체)의 전면에서 본것임.(Face view of pin insert shown ; socket view is opposite)
2. 본 표에 수록되지 않은 많은 내용은 별도로 문의하여 주십시오.

MSseries

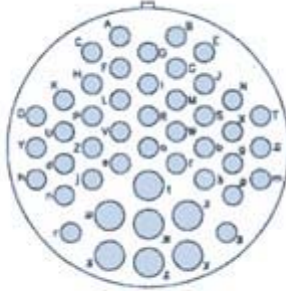
Standard MS Connectors (MIL-C-5015)

■ (Contact Arrangements)

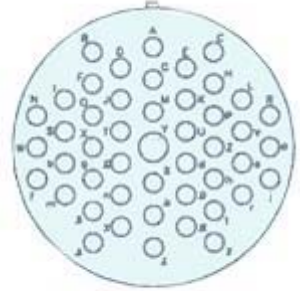


36-5
4-#0
A

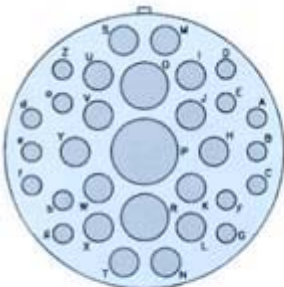
Shell Size
No. of Contacts
Service Rating



38-7
40-#16
7-#12
A

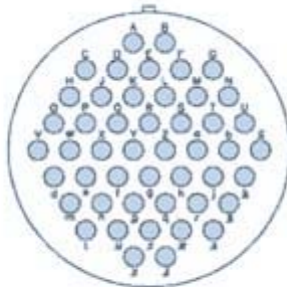


36-8
46-#16
1-#12
A

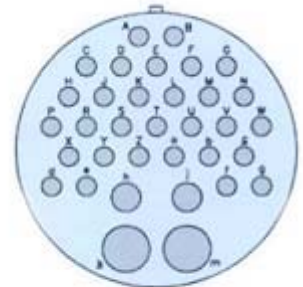


36-9
14-#16, 14-#12
2-#8, 1-#4
A

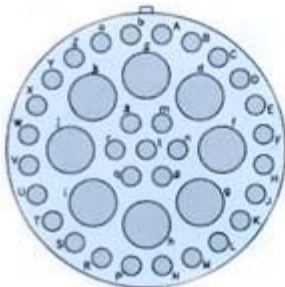
Shell Size
No. of Contacts
Service Rating



36-10
48-#16
A

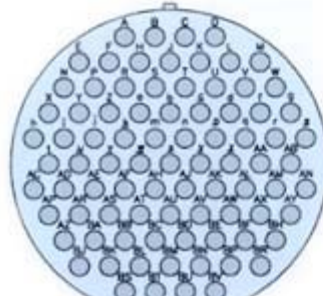


36-20
30-#16
2-#12, 2-#8
A



36-54
31-#16
8-#8
A

Shell Size
No. of Contacts
Service Rating

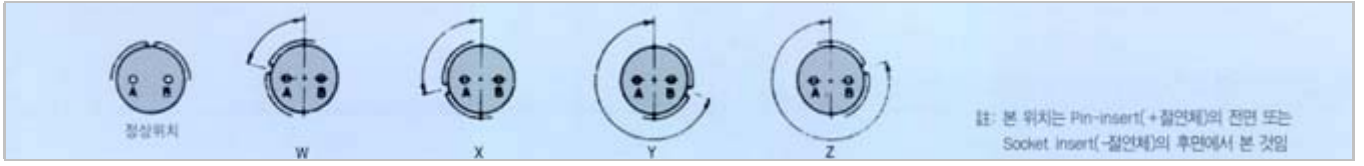


40-56
85-#16
A

- 註) 1. Pin insert (+절연체)의 전면에서 본것임.(Face view of pin insert shown ; socket view is opposite)
2. 본표에 수록되지 않은 많은 내용은 별도로 문의하여 주십시오.

MSseries Standard MS Connectors (MIL-C-5015)

(ALTERNATE INSERT POSITION)



Shell Size	contact Arrangements	No. of contact 수량	분류기호	Alternate Positions - 각도			
				W	X	Y	Z
12	12S-3	2 #16	A	70	145	215	290
	14S-2	4 #16	Inst.	-	120	240	-
	14S-5	5 #16	Inst.	-	110	-	-
	14S-7	3 #16	A	90	180	270	-
	14S-9	2 #16	A	70	145	215	290
16	16-9	2 #19	A	35	110	250	325
		2 #12					
	16-10	3 #12	A	90	180	240	-
	16-11	2 #12	A	35	110	250	325
	16-13	2 #12	A	35	110	250	325
	16S-1	7 #16	A	80	-	-	280
	16S-4	2 #16	D	35	110	250	325
	16S-5	3 #16	A	70	145	215	290
	16S-6	3 #16	A	90	180	270	-
	16S-8	5 #16	A	-	170	265	-
18	18-1	10 #16	A(B,C,F,G)	70	145	215	290
			Inst.(all others)				
	18-3	2 #12	D	35	110	250	325
	18-4	4 #16	D	35	110	250	325
	18-5	1 #16	D	80	110	250	280
		2 #12					
	18-8	7 #16	A	70	-	-	290
		1 #12					
	18-9	5 #16	Inst.	80	110	250	280
		2 #12					
	18-10	4 #12	A	-	120	240	-
	18-11	5 #12	A	-	170	265	-
	18-12	6 #16	A	80	-	-	280
	18-13	3 #12	A	80	110	250	280
		1 #8					
	18-15	4 #12	A	-	120	240	-
	18-22	3 #16	D	70	145	215	290
20	20-3	3 #12	D	70	145	215	290
	20-4	4 #12	D	45	110	250	-
	20-7	8 #16	A(C-F)	80	110	250	280
			D(A,B,G,H)				
	20-8	4 #16	Inst.	80	110	250	280
		2 #8					
	20-14	3 #12	A	80	110	250	280
		2 #8					
	20-15	7 #12	A	80	-	-	280
	20-16	7 #16	A	80	110	250	280
		2 #12					
	20-17	1 #16	A	90	180	270	-
		5 #12					
	20-18	6 #16	A	35	110	250	325
		3 #12					
	20-19	3 #8	A	90	180	270	-
	20-22	3 #16	A	80	110	250	280
		3 #8					
	20-23	2 #8	A	35	110	250	325
	20-24	2 #16	A	35	110	250	325
		2 #8					
	20-27	14 #16	A	35	110	250	325
	20-29	17 #16	A	80	-	-	280
22	22-2	3 #8	D	70	145	215	290
	22-4	2 #12	A	35	110	250	325
		2 #8					
	22-5	4 #16	D	35	110	250	325
		2 #12					
	22-6	1 #16	D	80	110	250	280
		2 #8					
	22-9	3 #12	E	70	145	215	290

Shell Size	contact Arrangements	No. of contact 수량	분류기호	Alternate Positions - 각도			
				W	X	Y	Z
22	22-23	8 #12	D(H)	335	-	250	-
			A(all others)				
	22-27	8 #16	D(J)	80	-	250	280
		1 #8	A(all others)				
	22-28	7 #12	A	80	-	-	280
24	24-2	7 #12	D	80	-	-	280
	24-5	16 #16	A	80	110	250	280
	24-6	8 #12	D(A,G,H)	80	110	250	280
			A(all others)				
	24.7	14 #16	A	80	110	250	280
		2 #12					
	24-9	2 #4	A	35	110	250	325
	24-10	7 #8	A	80	-	-	280
	24-11	6 #16	A	35	110	250	325
		3 #8					
	24-12	13 #12	A	80	110	250	280
		2 #4					
	24-20	9 #16	D	80	110	250	280
		2 #12					
	24-22	4 #8	D	45	110	250	-
	24-27	7 #16	E	80	-	-	280
	24-28	24 #16	inst	80	110	250	280
28	28-1	6 #12	D(A,E,J)	80			
		3 #8	A(all others)				
	28-2	12 #16	D	35	110	250	325
		2 #12					
	28-7	2 #4	D	35	110	250	325
	28-9	6 #16		80	110	250	280
		6 #12	D				
	28-10	3 #12	D(G)	80	110	250	280
		2 #8	A(all othesr)				
		2 #4					
	28-11	18 #16	A	80	110	250	280
		4 #12					
	28-12	26 #16	A	90	180	270	-
	28-15	26 #16	A	80	110	250	280
	28-16	20 #16	A	80	110	250	280
	28-17	15 #16	A(A-L),B(R)	80	110	250	280
			D(M-P)				
	28-19	6 #16	A(C,E,G,J,L,L)	80	110	250	280
		4 #12	B(H,M),D(A,B)				
	28-20	4 #16	A	80	110	250	280
		10 #12					
	28-21	37 #16	A	80	110	250	280
	28-22	3 #16	D	70	145	215	290
		3 #4					
	32-1	3 #12	E(A)	80	110	250	280
		2 #0	D(all others)				
32	32-6	16 #16	A	801	110	235	280
		2 #12					
		3 #8					
		2 #4					
	32-7	28 #16	Inst.(A,B,h,j)	80	125	235	280
		7 #12	A(all others)				
	32-8	24 #16	A	80	125	235	280
		6 #12					
	32-9	12 #16	D	80	110	250	280
		2 #4					
	32.17	4 #4	D	45	110	250	-
36	36-4	3 #0	A(B,C)	70	145	215	290
			D(A)				
	36-5	4#0	A	-	120	240	-
	36-7	40 #16	A	80	110	250	280

22-10	4 #16	E	35	110	250	325
22-11	2 #16	B	35	110	250	325
22-12	3 #16	D	80	110	250	280
	2#8					
22-13	1 #16	A(A-D)	35	110	250	325
	4 #12	D(E)				
22-14	19 #16	A	80	-	-	280
22-15	1 #16	A(A-C,E,F)	80	110	250	280
	5 #12	E(D)				
22-17	8 #16	D(A)	80	110	250	280
	1 #12	A(all others)				
22-18	8 #16	A(C-E)	80	110	250	280
	A(all others)					
22-19	18 #16	A	80	110	250	280
22-20	9 #16	A	35	110	250	325
22-22	4 #8	A	-	110	250	-

	7 #12						
36-8	46 #16	A	80	110	250	280	
	1 #12						
36-9	14 #16	A	80	125	235	280	
	14 #12						
	2 #8						
	1 #4						
36-10	48 #16	A	80	125	235	280	
36-15	35 #16	D(m)	60	125	245	305	
	A(all others)						
40	40-56	85 #16	A	72	144	216	288
	44-1	36 #16	D	65	125	225	310
		6 #12					
	48-5	90 #16	A	65	125	225	310
		1 #8					
		9 #12					

CONTACT Arrangements & Formation

Shell size	No. of contactst	contacts						Environment Type
		20	16	12	8	4	0	
8 SIZE								
8S-1	1	1						
8S-2	2	2						
10 SIZE								
10S-2	1	1						
10SL-3	3	3					E, R	
10SL-4	2	2					E, R	
12 SIZE								
12S-1	2	2						
12S-3	2	2					E, R	
12S-4	1	1						
12S-5	1		1				E, R	
12S-01	3	3						
12-5	1		1					
14 SIZE								
14S-1	3	3					B, E, R	
14S-2	4	4					E, R	
14S-3	1		1					
14S-4	1	1						
14S-5	5	5					B, E, R	
14S-6	6	6					B, E, R	
14S-7	3	3					B, E, R	
14S-9	2	2	1				B, E, R	
14-3	1						E, R	
16 SIZE								
16S-01	8	8						
16-9	4	2	2					
16-10	3		3				E, R	
16-11	2						E, R	
16-12	1			1			E, R	
16-13	2							
16S-1	7	7					B, E, R	
16S-4	2	2						
16S-5	3	3						
16S-8	5	5					E, R	
18 SIZE								
18-1	10	10					B, E, R	
18-2	3	3						
18-3	2		2					
18-4	4	4					E, R	
18-5	3	1	2				B	
18-8	8	7	1				B, E, R	
18-9	7	5	2					
18-10	4		4				B	
18-11	5	6	5				E, R	
18-12	6	6					B, E, R	
18-16	1		1					
18-18	7	5	2					
18-19	10	10					B	
18-20	5	5					E, R	
18-21	3		3					
18-01	8	8						

Shell size	No. of contacts	contacts						Environment Type
		20	16	12	8	4	0	
20 SIZE								
20-2	1					1		
20-3	3		3					
20-4	4		4		1		E, R	
20-7	8	8					B	
20-8	6	4	2					
20-10	4	2						
20-13	13	13						
20-15	7		7				B, E, R	
20-16	9	7	2				B	
20-17	6	1	5				E, R	
20-18	9	6	3				B	
20-19	3			3			E, R	
20-22	6	3	3					
20-23	2		2					
20-24	4	2	2					
20-27	14	14					B, E, R	
20-29	17	17					B, E, R	
20-01	10	10						
20-02	10	8	2					
20-03	3		1	2				
22 SIZE								
22-2	3		3				E, R	
22-4	4		2	2				
22-5	6	4	2					
22-7	1	3		1			E, R	
22-8	2	2						
22-9	3	3						
22-10	4	4					E, R	
22-14	19	19					B, E, R	
22-15	6	1	5				E, R	
22-18	8	8						
22-19	14	14					B, E, R	
22-22	4		4				B	
22-23	8		8				B, E, R	
22-27	9	8	1					
22-01	12	8	4					
22-02	9		9					
24 SIZE								
24-2	7		7					
24-3	7	5	2					
24-4	4	3	3					
24-5	16	16						
24-7	16	14	2				E, R	
24-9	2			2			E, R	
24-10	7		7				B	
24-11	9		6	3			B, E, R	
24-12	5		3	2				
24-20	11	9	2					
24-22	4		4					
24-28	24	24					B, E, R	
24-01	2			2				
24-02	9		9					
24-03	12	12						

Shell size	No. of contacts	contacts						Environment Type
		20	16	12	8	4	0	
28 SIZE								
28-2	14		12	2				
28-3	3				3			
28-7	2					2		
28-9	12		6	6				
28-10	7			3	2	2		
28-11	22	18	4				B	
28-12	26	26					B, E, R	
28-15	35	35					B	
28-16	20	20						
28-17	15	15						
28-18	12	12						
28-19	10	6	4					
28-20	14	4	10				B	
28-21	37	37					B, E, R	
28-22	6	3		3			E, R	
28-51	12		12					
28-56	16	14	2					
32 SIZE								
32-1	5		3		2			
32-5	2					2		
32-6	23	16	2	3	2		E, R	
32-7	35	28	7					
32-8	30	24	6					
32-13	23	18	5					
32-15	8	6			2			
32-16	23	16	2	3	2			
32-17	4				4		E, R	
32-22	54	54					B	
32-73	46	46						
32-01	24		24					
32-02	16		16					
32-03	3				3			
32-04	7		7					
32-05	28	18	8	2				
32-59	40	38	2					
36 SIZE								
36-1	22	18						
36-4	3					3		
36-5	4					4		
36-7	47	40						
36-8	47	46						
36-9	31	14	14	2	1			
36-10	48	48						
36-20	34	30	2	2				
36-02	27		27				(36-27)	
36-52	52	52						
40 SIZE								
40-56	85	85					MS25183 용	