

CONNECTOR WORLD

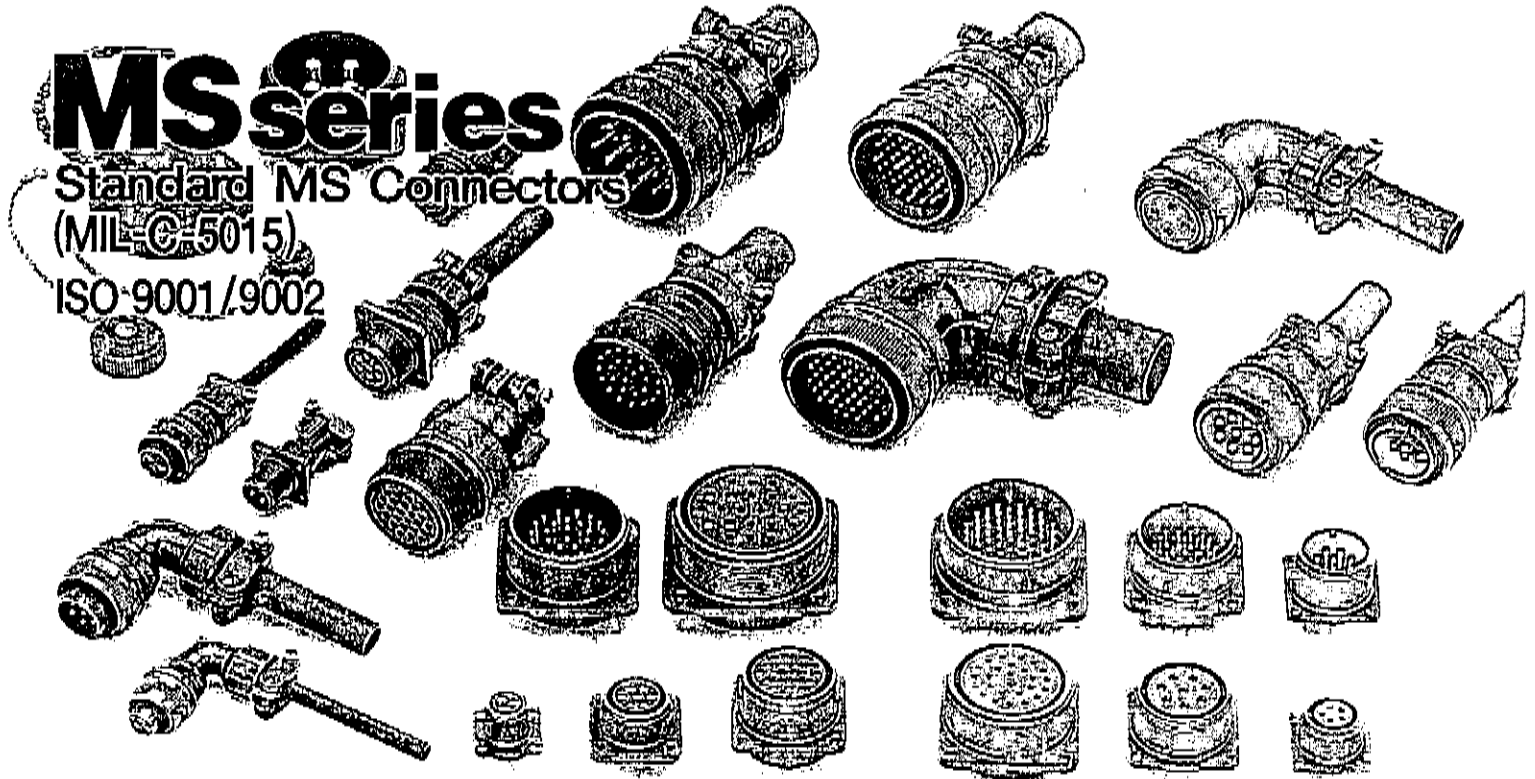
Suppliers of Quality Connectors

162 Weatherall Road, Cheltenham

P O Box 347, Mentone 3194

Tel 03 9585 1311

Fax: 03 9585 1388

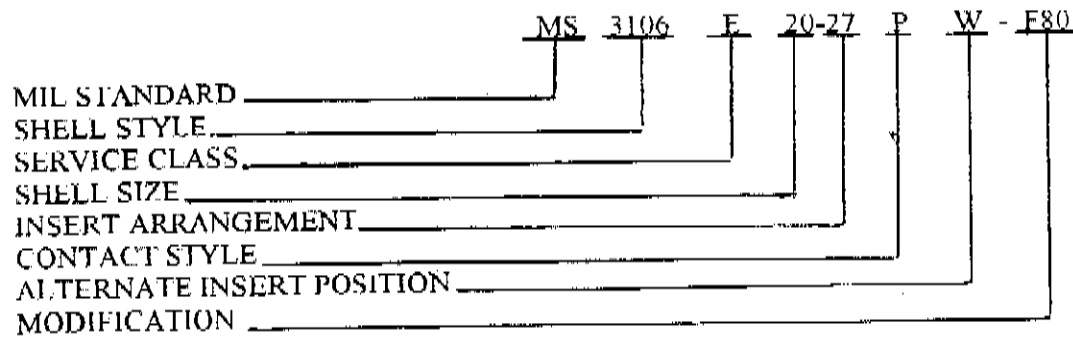


Mil.C.5015 series connectors, durable field proven design, thread coupling, single keyway with 1 to 104 contact configuration. this range of connectors were originally designed for aircraft, but are now widely used in many other fields. They are particularly suitable for commercial application requiring low cost, reliable connectors.

CONNECTOR WORLD has 25 years experience in electronic component distribution, specialising in MIL-SPEC connectors and related accessories. Our extensive stock range of connectors allows us to fill your order immediately. We pride ourselves on our in-depth product knowledge and responses to customer requirements.

CONNECTOR WORLD is dedicated to filling all your connector and accessory requirements and welcome the opportunity to serve you.

ORDERING INFORMATION

**SHELL STYLE:**

- 3100 Wall mounting receptacle
 3101 Cable mounting receptacle
 3102 Box mounting receptacle
 3106 Straight plug
 3108 90° angle plug

SERVICE CLASS: DESCRIPTION:

- A. Solid shell, general purpose
 B Split shell, general purpose
 E Resilient insulator and integral cable clamp
 F Same as E with O ring seal under coupling nut
 R Same as F with shortened endbell
 (E, F and R class – designed to operate in extreme environmental conditions, sealed to withstand moisture, condensation and vibration).

CONTACT STYLE:

- P Pin male
 S Socket female

MATERIAL & FINISH

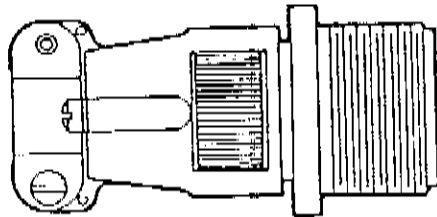
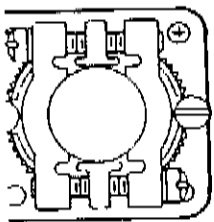
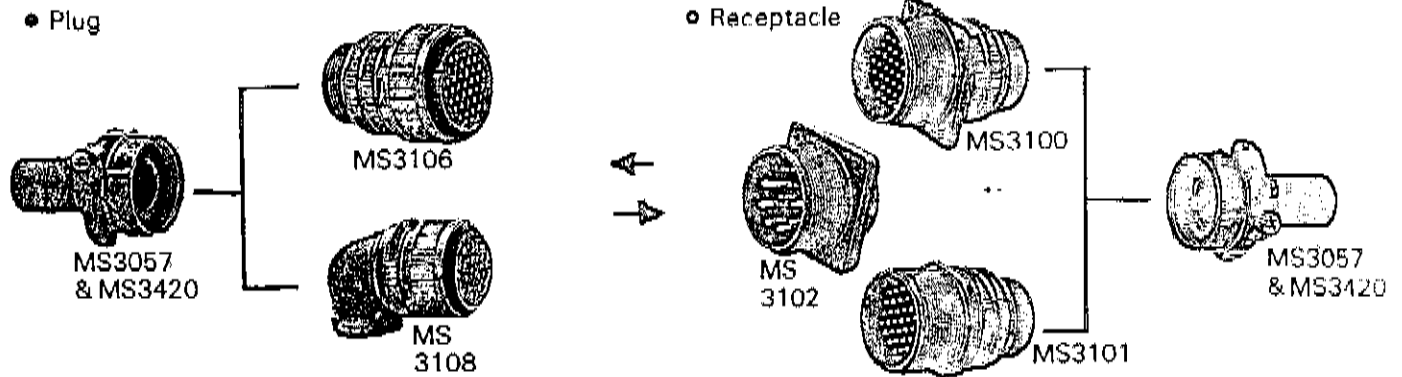
- Shell Aluminium Alloy
 Finish Drab olive chromate over cadmium plating
 Insulator A & B class, Diallyl Phthalate
 Insulator E, F & R class, Neoprene Rubber
 Contacts Brass on copper alloy
 Finish Silver plate
 Termination Solder pot or crimp

Temperature range – 55c to 125c

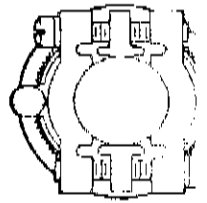
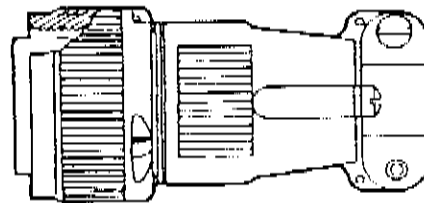
WIRING SERVICE DATE

Contact Size	Solder cup Dimensions	Wire size AWG	Current Capacity (Amperes)		Potential Drop (millivolts)
			Contact unit	Assembled in Insulator	
16	1.80mm	16-22	22	13	49
12	2.90mm	12-14	41	23	42
8	5.00mm	8-10	73	46	26
4	8.00mm	4-6	135	80	23
0	11.50 mm	0-2	245	150	219

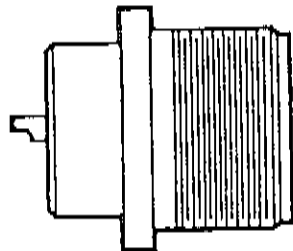
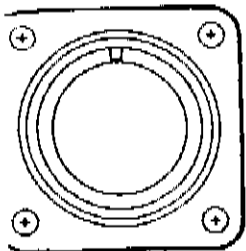
MATING GUIDE - MIL.C.5015



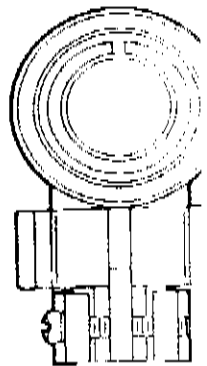
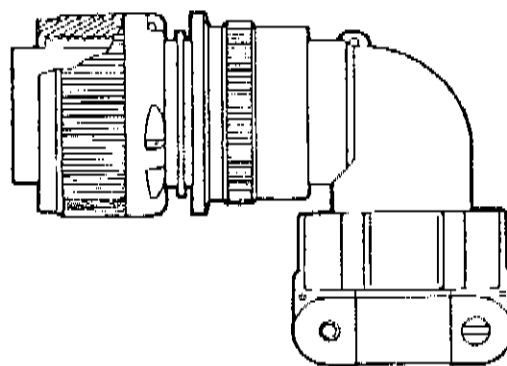
Wall mounting receptacles MS 3 100E



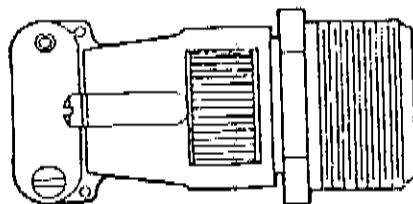
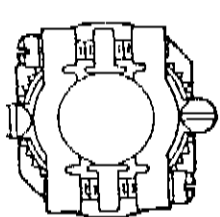
Straight plug MS 3 106E



Box mounting receptacle MS 3 102R/E



90° Angle plug MS 3108E



Cable connecting plug MS 3 101E

DUST CAPS

CABLE CLAMPS

RUBBER BUSHINGS

		FITS SHELL SIZE
MS25042-10D	MS25043-10D	10SL
MS25042-12D	MS25043-10D	12S
MS25042-14D	MS25043-14D	14S
MS25042-16D	MS25043-16D	16, 16S
MS25042-18D	MS25043-18D	18
MS25042-20D	MS25043-20D	20
MS25042-22D	MS25043-22D	22
MS25042-24D	MS25043-24D	24
MS25042-28D	MS25043-28D	28
MS25043-32D	MS25043-32D	32
MS25043-36D	MS25043-36D	36
MS25043-40D	MS25043-40D	40

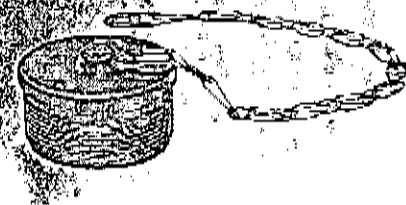
MS25043

to suit receptacles 3100, 3101 & 3107

MS 25043

MS25042

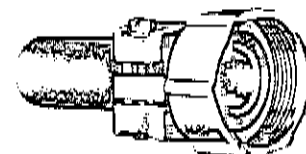
to suit plugs 3106 and 3108

MS 25042

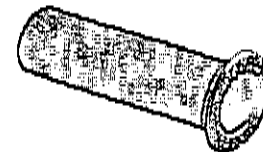
CABLE CLAMP	BUSH	FITS SHELL SIZE
MS3057 4A	MS3420.4	10SL, 12S
MS3057 6A	MS3420 6	14S
MS3057 8A	MS3420 8	16, 16S
MS3057.10A	MS3420.10	18
MS3057.12A	MS3420.12	20, 22
MS3057 16A	MS3420.16	24, 28
MS3057.20A	MS3420.20	32
MS3057 24A	MS3420.24	36
MS3057.28A	MS3420 28	40

Cable Clamp

With or Without Bushing

Telescoping Bushing





MSJ420/








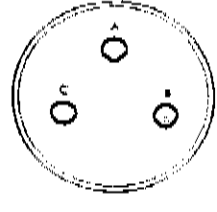
MIL.C.5015 INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACT VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE
Configurations shown are some of the popular arrangements




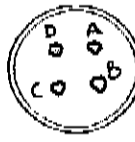
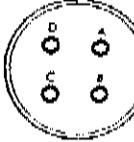
-----2 contacts-----

				
	105L-4f	125-3f	143-9f	16-11f
CONTACTS	2 #16	2 #16	2 #16	2 #16
RATING	A	A	A	A


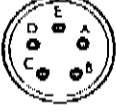

-----3 contacts-----

						
	105L-3f	14S-1f 14S-7f	16S-5f	16-10f	20-13f	20-6f
CONTACTS	3 #16	3 #16	3 #16	3 #12	3 #8	3 #4
RATING	A	A	A	A	A	D

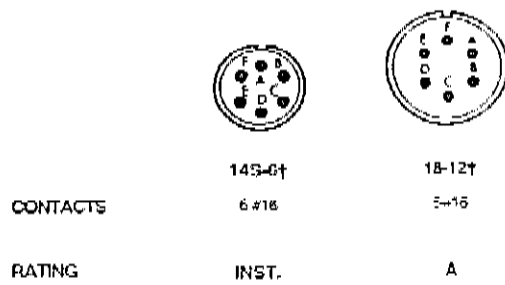
-----4 contacts-----

					
	14S-2f	18-4f	18-10f	20-1f	22-22f
CONTACTS	4 #16	4 #16	4 #12	4 #12	4 #8
RATING	INST.	D	A	D	A

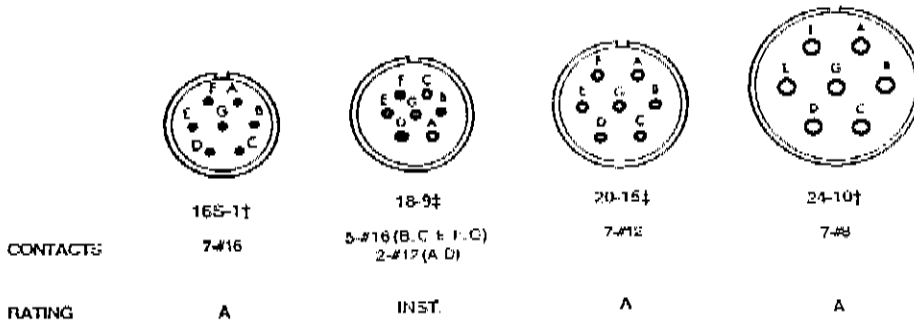
-----5 contacts-----

			
	14S-5f	16S-8f	18-11f
CONTACTS	5 #16	5 #16	5 #12
RATING	INST.	A	A

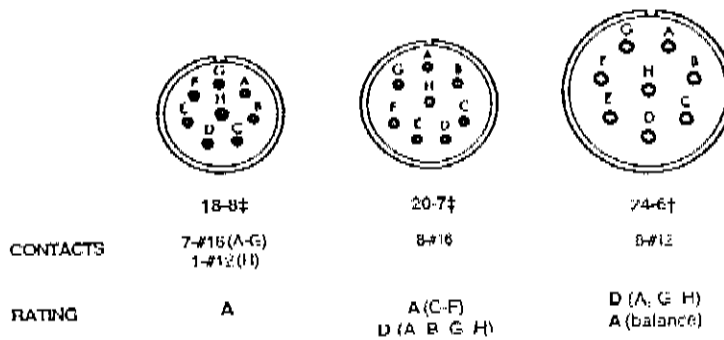
-----6 contacts-----



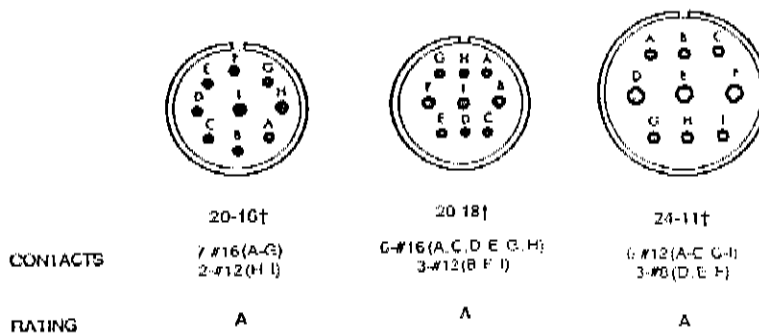
-----7 contacts-----



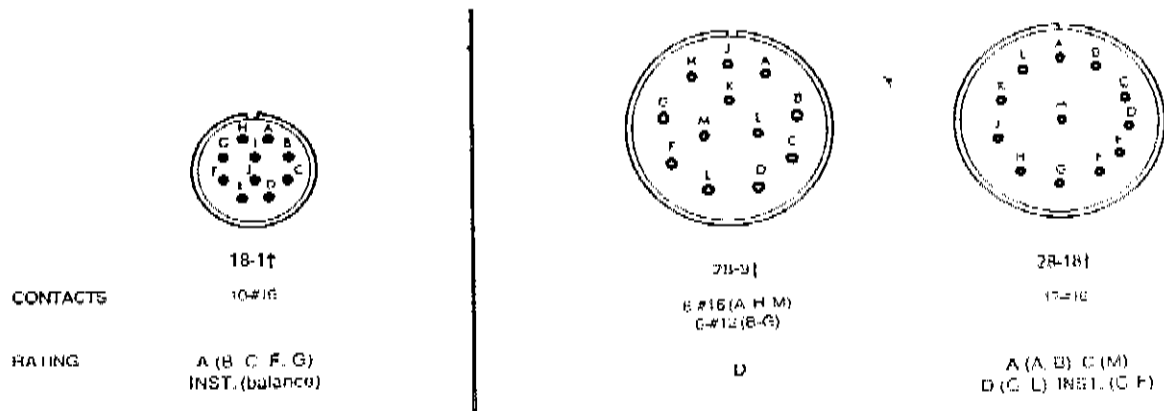
-----8 contacts-----



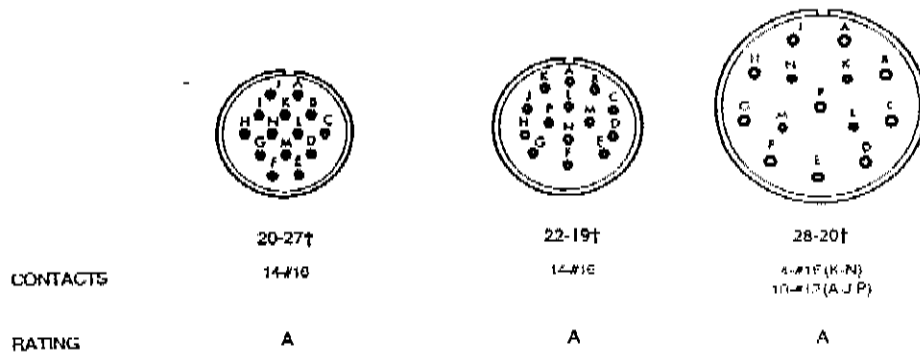
-----9 contacts-----



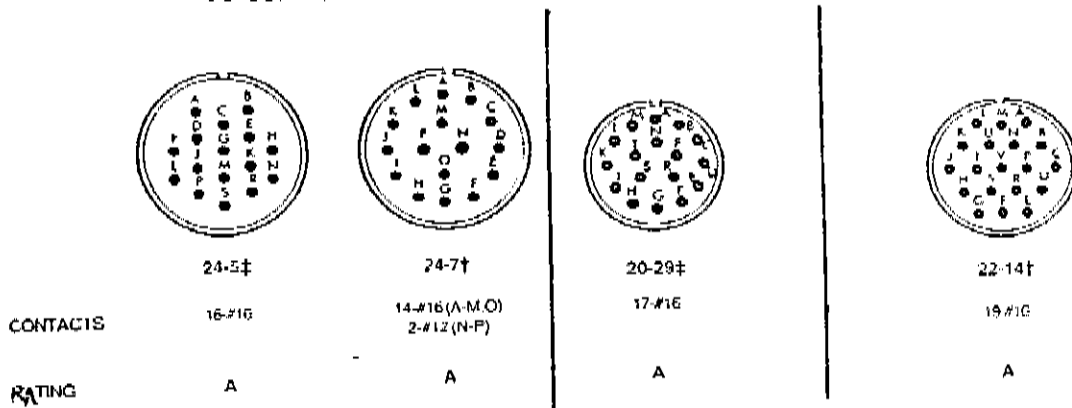
-----10 contacts-----12 contacts-----



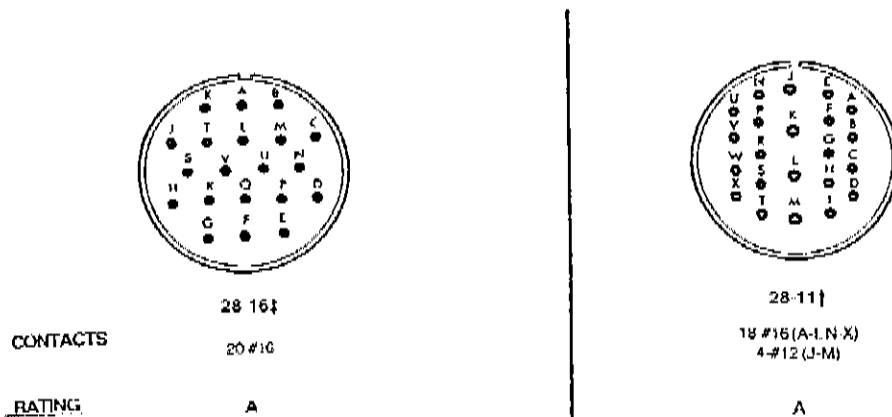
-----14 contacts-----



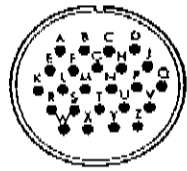
-----16 contacts-----17 contacts-----19 contacts-----



-----20 contacts-----22 contacts-----



-----24 contacts-----26 contacts-----



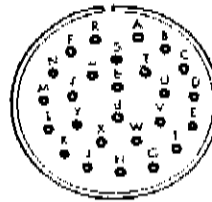
24-28†

24-#16

CONTACTS

RATING

INST.

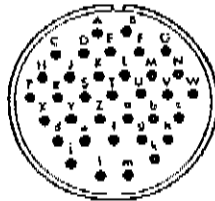


28-12†

26-#10

A

-----35 contacts-----37 contacts-----



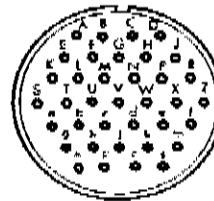
28-15†

35-#16

CONTACTS

RATING

A

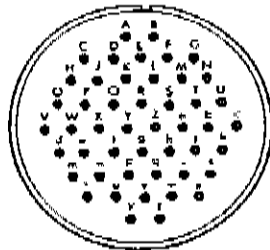


28-21†

37-#10

A

-----48 contacts-----



36-10†

48-#16

CONTACTS

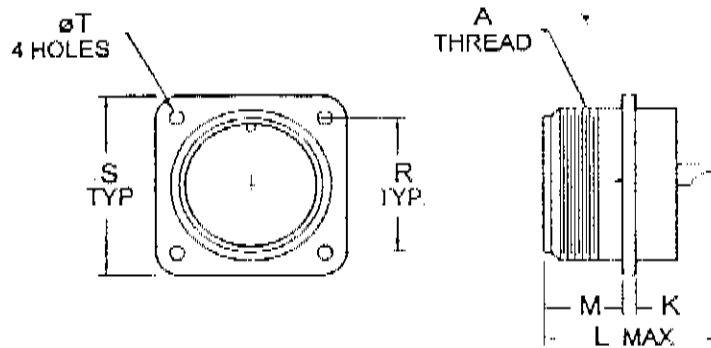
RATING

A

● 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)	1.0 inch (25.4mm)

DIMENSIONS BOX MOUNT RECEPTACLE



MIL-C-5015

SHELL SIZE	A COUPLING THREAD CLASS 2A	K		L MAX	M +.031 -.000 [+0.79] [0.00]	R ±.005 [±0.13]	S ±.031 [±0.79]	T +.010 .005 [+0.25] [-0.13]
		MAX	MIN					
8S	1/2-20 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.594 [15.09]	.875 [22.22]	.120 [3.05]
10S	5/8-24 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.719 [18.26]	1.000 [25.40]	.120 [3.05]
10SL	5/8-24 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.719 [18.26]	1.000 [25.40]	.120 [3.05]
12	3/4-20 UNEF	.156 [3.96]	.062 [1.57]	1.625 [41.28]	.750 [19.05]	.812 [20.62]	1.094 [27.79]	.120 [3.05]
12S	3/4-20 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.812 [20.62]	1.094 [27.79]	.120 [3.05]
14	7/8-20 UNEF	.156 [3.96]	.062 [1.57]	1.625 [41.28]	.750 [19.05]	.906 [23.01]	1.188 [30.18]	.120 [3.05]
14S	7/8-20 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.906 [23.01]	1.188 [30.18]	.120 [3.05]
16	1-20 UNEF	.156 [3.96]	.062 [1.57]	1.625 [41.28]	.750 [19.05]	.969 [24.61]	1.281 [32.54]	.120 [3.05]
16S	1-20 UNEF	.156 [3.96]	.062 [1.57]	1.219 [30.96]	.562 [14.27]	.969 [24.61]	1.281 [32.54]	.120 [3.05]
18	1 1/8-18 UNEF	.203 [5.16]	.094 [2.39]	1.938 [49.23]	.750 [19.05]	1.062 [26.97]	1.375 [34.92]	.120 [3.05]
20	1 1/4-18 UNEF	.203 [5.16]	.094 [2.39]	1.938 [49.23]	.750 [19.05]	1.156 [29.36]	1.500 [38.10]	.120 [3.05]
22	1 3/8-18 UNEF	.203 [5.16]	.094 [2.39]	1.938 [49.23]	.750 [19.05]	1.250 [31.75]	1.625 [41.27]	.120 [3.05]
24	1 1/2-18 UNEF	.203 [5.16]	.094 [2.39]	1.938 [49.23]	.812 [20.62]	1.375 [34.92]	1.750 [44.45]	.147 [3.73]
28	1 3/4-18 UNS	.203 [5.16]	.094 [2.39]	1.938 [49.23]	.812 [20.62]	1.562 [39.67]	2.000 [50.80]	.147 [3.73]
32	2-18 UNS	.359 [9.12]	.125 [3.17]	1.938 [49.23]	.875 [22.22]	1.750 [44.45]	2.250 [57.15]	.173 [4.39]
38	2 1/4-18 UN	.359 [9.12]	.125 [3.17]	1.938 [49.23]	.875 [22.22]	1.983 [50.37]	2.500 [63.50]	.173 [4.39]
40	2 1/2-16 UN	.359 [9.12]	.125 [3.17]	1.938 [49.23]	.875 [22.22]	2.188 [55.58]	2.750 [69.85]	.173 [4.39]

1. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.