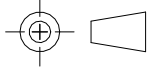


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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DRAWING STANDARDS ARE PER ASME Y14.5M-2009

THIRD ANGLE PROJECTION

PART NUMBER

MES-15S6E5-18.0L /01

SECTION 1.1

SECTION 1.2

SECTION 1.3

SECTION 1.4

SECTION 1.5

SECTION 1.6

SECTION 1.7

SECTION 1.8

SECTION 1.9

SECTION 1.10

SECTION 1.11

1.1 - Series

M Series

1.2 - Insulator Material

E = Polyester
R = Polyphelylene Sulfide (PPS)

1.3 - Interfacial Seal

S = Fluorosilicone rubber seal on socket (receptacle) only
Omit 'S' if ordering a pin (plug) or if no seal is required

1.4 - Contact Arrangements

9, 15, 21, 25, 31, 37, 51, 100

1.5 - Contact Type/Gender

P = Pin (plug)
S = Socket (receptacle)

1.6 - Wire Size

4 = 24 AWG
5 = 25 AWG (solid wire only)
6 = 26 AWG
8 = 28 AWG
0 = 30 AWG)

1.7 - Wire Type

C = Solid Copper
E = 7 Strand type 'E' NEMA HP3 (was MIL-W-16878/4 Type 'E')
F = 7 Strand type 'ET' NEMA HP3 (was MIL-W-16878/4 Type 'ET')
G = 19 Strand type 'E' NEMA HP3 (was MIL-W-16878/4 Type 'E')
H = 19 Strand type 'ET' NEMA HP3 (was MIL-W-16878/4 Type 'ET')
K = 19 Strand M22759/33 (26 AWG only)
M= 19 Strand M22759/11 (24 & 26 AWG only)
N= 19 Strand M22759/19 (26 AWG only)

1.8 - Wire Color/Finish

1 = All white
2 = All yellow
3 = Tin plated
4 = Gold plated
5 = Color coded per MIL-STD-681 System 1 (all except 60 & 100 layouts)
6 = 15-color repeating color code
7 = 10-color repeating color code

1.9 - Lead Length (min)

Stranded wire: from 6.0" to 144.0" in 6.0" increments
Solid wire: from 0.5" to 3.0" in 0.5" increments

Standard connector temperature rating without factory mod codes is 125C

DWG NO:00-016-0002

REVISIONS

ECO	REV	DESCRIPTION	DATE	APPROVED
	1	RELEASE	5/29/19	WC
	2	ADJUSTED HIGH TEMP RATINGS	10/9/19	WC

1.10 - Hardware

Commercial (#2-56 for sizes 9-60; #4-40 for size 100):

F = Float mount
H = Hex drive (low profile)
J = Slotted drive (tall profile)
L = Slotted drive (low profile)
P = Jackpost (unassembled)

Military:

M02 = Hex drive, low profile (size 9-60 only)
M03 = Hex drive, tall profile (size 9-60 only)
M05 = Slotted drive, low profile (size 9-60 only)
M07 = Jackpost, unassembled (size 9-60 only)
M12 = Hex drive, low profile (size 100 only)
M13 = Hex drive, tall profile (size 100 only)
M15 = Slotted drive, low profile (size 100 only)
M16 = Sloted drive, tall profile (size 100 only)
M17 = Jackpost, unassembled (size 100 only)

1.11 - Factory Modification Codes

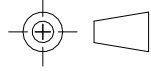
/01 = High temperature (200° C for MR) (150C for ME)
/02 = Termination leads coated with Sn60 (solid wire 0.5" max. length)
/04 = Testing to M83513 Groups A & B
/05 = Testing to M83513 Group A only
/06 = High temperature (see /01) with enhanced sealing properties for high humidity applications
/07 = s/a /06 except no nickel underplating on contact for non-magnetic applications

PART NUMBER		CUSTOMER APPROVAL					
SEE ABOVE		SIGNED:		DATE:			
INTENDED USE CUSTOMER		MIN-E-CON 17312 EASTMAN IRVINE, CA 92614					
REFERENCE							
		DWG TITLE					
SIGNATURES		DATE		'M' SERIES PLASTIC SHELL PART NUMBER BUILDUP			
DRAWN CHARETTE		5/29/19					
CHECKED							
APPROVED				SIZE B	FSCM NO. 54455	DWG NO. 00-016-0002	REV 2
		SCALE NONE				SHEET 1 of 2	

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THIRD ANGLE PROJECTION



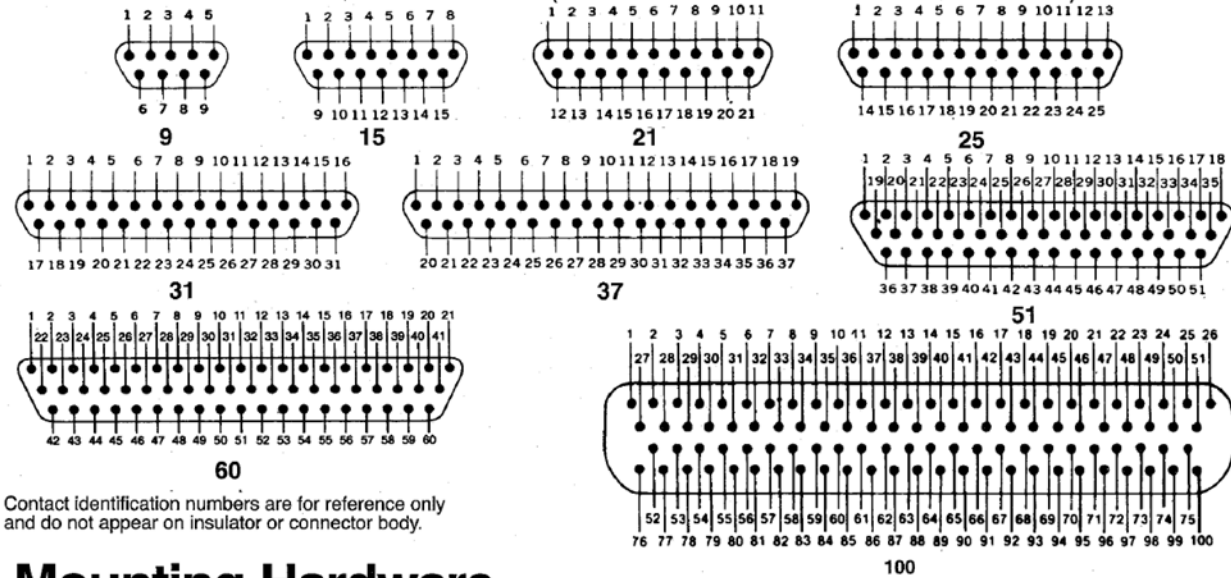
DWG NO: 00-016-0002

REVISIONS

ECO	REV	DESCRIPTION	DATE	APPROVED
	2	SEE SHEET 1		

Contact Arrangements/Series "D" & "M"

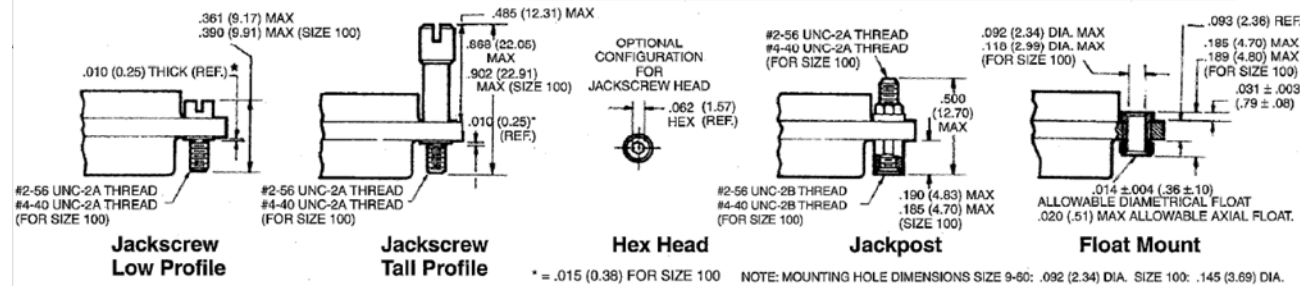
Face View of Pin Insert (Use Reverse Order For Socket Insert)



Contact identification numbers are for reference only and do not appear on insulator or connector body.

Note: 60 size available in metal shell only. A"D" series is not available in the 60 or 100.

Mounting Hardware



Commercial Style Jackscrew, Low Profile Hex Head Slot Head

Size 9-51	H	L
Suffix code for ordering with connectors		
Kit number when ordering separately	10,000 - 0006	10-000-0002
Size 100	-	-

M83513/05 Style

Size 9-51	M02	M05
Suffix code for ordering with connectors		
Kit number when ordering separately	M83513/05-02	M83513/05-05
Size 100	M12	M15
Suffix code for ordering with connectors		
Kit number when ordering separately	M83513/05-12	M83513/05-15

Hex Head

* = .015 (0.38) FOR SIZE 100 NOTE: MOUNTING HOLE DIMENSIONS SIZE 9-50: .092 (2.34) DIA. SIZE 100: .145 (3.69) DIA.

Jackscrew, Tall Profile Hex Head Slot Head

Size 9-51	J
Suffix code for ordering with connectors	
Kit number when ordering separately	10-000-0001
Size 100	-

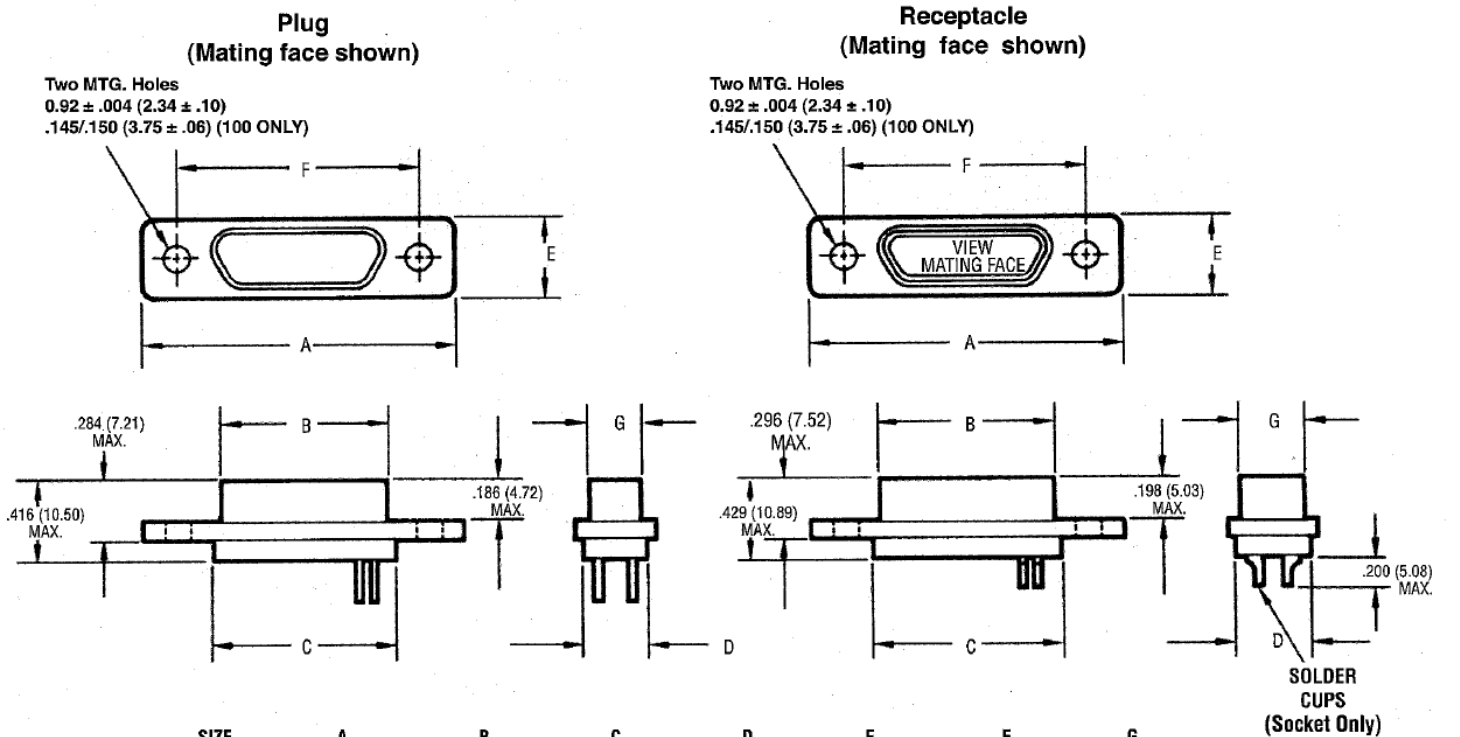
Jackpost

Size 9-51	P
Suffix code for ordering with connectors	
Kit number when ordering separately	10-000-0003
Size 100	-

Float Mount

Size 9-51	F
Suffix code for ordering with connectors	
Kit number when ordering separately	-
Size 100	-

Dimensions/Inches (mm)



SIZE	A ±.010 (.25)	B MAX	C ±.010 (.25) -.018 (.46)	D MAX	E ±.010 (.25)	F ±.005 (.13)	G MAX
9P	.775 (19.68)	.334 (8.48)	.390 (9.91)	.270 (6.86)	.298 (7.57)	.565 (14.35)	.184 (4.65)
9S	.775 (19.68)	.402 (10.21)	.390 (9.91)	.270 (6.86)	.298 (7.57)	.565 (14.35)	.252 (6.38)
15P	.925 (23.50)	.484 (12.29)	.540 (13.72)	.270 (6.86)	.298 (7.57)	.715 (18.16)	.184 (4.65)
15S	.925 (23.50)	.552 (14.02)	.540 (13.72)	.270 (6.86)	.298 (7.57)	.715 (18.16)	.252 (6.38)
21P	1.075 (27.30)	.634 (16.10)	.690 (17.53)	.270 (6.86)	.298 (7.57)	.865 (21.97)	.184 (4.65)
21S	1.075 (27.30)	.702 (17.83)	.690 (17.53)	.270 (6.86)	.298 (7.57)	.865 (21.97)	.252 (6.38)
25P	1.175 (29.84)	.734 (18.64)	.790 (20.07)	.270 (6.86)	.298 (7.57)	.965 (24.51)	.184 (4.65)
25S	1.175 (29.84)	.802 (20.37)	.790 (20.07)	.270 (6.86)	.298 (7.57)	.965 (24.51)	.252 (6.38)
31P	1.325 (33.66)	.884 (22.45)	.940 (23.88)	.270 (6.86)	.298 (7.57)	1.115 (28.32)	.184 (4.65)
31S	1.325 (33.66)	.952 (24.18)	.940 (23.88)	.270 (6.86)	.298 (7.57)	1.115 (28.32)	.252 (6.38)
37P	1.475 (37.46)	1.034 (26.26)	1.090 (27.69)	.270 (6.86)	.298 (7.57)	1.265 (32.13)	.184 (4.65)
37S	1.475 (37.46)	1.102 (27.99)	1.090 (27.69)	.270 (6.86)	.298 (7.57)	1.265 (32.13)	.252 (6.38)
51P	1.425 (36.20)	.984 (24.99)	1.040 (26.42)	.310 (7.87)	.341 (8.66)	1.215 (30.86)	.227 (5.74)
51S	1.425 (36.20)	1.052 (26.72)	1.040 (26.42)	.310 (7.87)	.341 (8.66)	1.215 (30.86)	.295 (7.47)
100P	2.160 (54.86)	1.384 (35.15)	1.432 (36.37)	.360 (9.14)	.384 (9.75)	1.800 (45.72)	.270 (6.86)
100S	2.160 (54.86)	1.498 (38.05)	1.432 (36.37)	.360 (9.14)	.384 (9.75)	1.800 (45.72)	.394 (10.01)

Standard connector temperature rating without factory mod codes is 125C

PART NUMBER		CUSTOMER APPROVAL	
		SIGNATURE	DATE
INTENDED USE			
CUSTOMER			
REFERENCE			
SIGNATURES		DATE	
DRAWN			
CHARETTE		5/29/19	
CHECKED			
APPROVED			
SIZE	FSCM NO.	DWG NO.	REV
B	54455	00-016-0002	2
SCALE	NONE	SHEET	2 of 2