

ELECTRONIC CONNECTORS

CONDENSED CATALOG

COMMERCIAL & MILITARY APPLICATIONS



TERMINAL BLOCKS

SOLDERLESS TERMINATIONS

POWER

SPECIAL DESIGNS

RACK & PANEL

PRINTED CIRCUIT

CENTER SCREWLOCK

REMOVABLE CONTACT



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If you don't see the density that you require give us a call (973-429-8500, Engineering Dept.) and we can talk about it.

PRINTED CIRCUIT — PIN & SOCKET

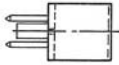
CONTACT SIZE	SERIES	M55302 APPROVED TYPES	NUMBER OF CONTACTS	PAGE
23 Ø.027 (.69)	600-1	M55302/4,/6	9,17,25,33,41,61,77	4
	ST600-1	M55302/5	9,17,25,33,41,77	5
	LPST600-1	N/A	9,17,25,33,41,77	5
	610-1	M55302/7,/8,/21,/22	13,25,37,49,61,92	6,7
	615-1	M55302/1,/2	7,12,17,23,28	8
	SPECIFICATIONS: SERIES 600-1, ST600-1, LPST600-1, 610-1, 615-1			9
22 Ø.030 (.76)	M	M55302/55,/56	10,14,20,24,26,30,36,40,44,50,54,56,60,66,70,78	10,11
	MARP MAR	M55302/57,/58, /59,/60,/61	10,14,20,24,26,30,36,40,44,50,54,56,60,66,70,90,100,120	12-15
	MR	M55302/62,/63,/64	10,14,20,24,26,30,36,40,44,50,54,56,60,66,70	16,17
	XCMARC XCMRC	M55302/65,/66	10,14,20,24,26,30,36,40,44,50,54,56,60,66,70	18-19
	3MARP 3MAR LC3MAR	M55302/138, /139 (Size 160 only)	50,62,80,92,104,122,160	20-25
	XMARR	N/A	10,14,20,24,26,30,36,40,44,50,54,56,60,66,70	26
	ML	N/A	1,2,3, . . . thru 20	26
	SPECIFICATIONS: SERIES M, MARP, MAR, MR, XCMARC, XCMRC, 3 MARP, 3MAR, LC3MAR, XMARR, ML			27
20 Ø.040 (1.02)	J	N/A	9, 11, 15, 21, 25, 31, 37, 51	28
	600-1-45	N/A	45	29
	145-5	M55302/16,/17,/18	7,9,11,15,19,23,37	30,31
	C670-100 670-100 ST670-100	N/A	9,11,15,18,22,25,30,36,44,50	32
	SM600-1	N/A	96	33
	600-1-50	N/A	50	33
	670	N/A	4,8,10,12,13,22,28	34
	683	N/A	11,12,18,19,28,32,33	35

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

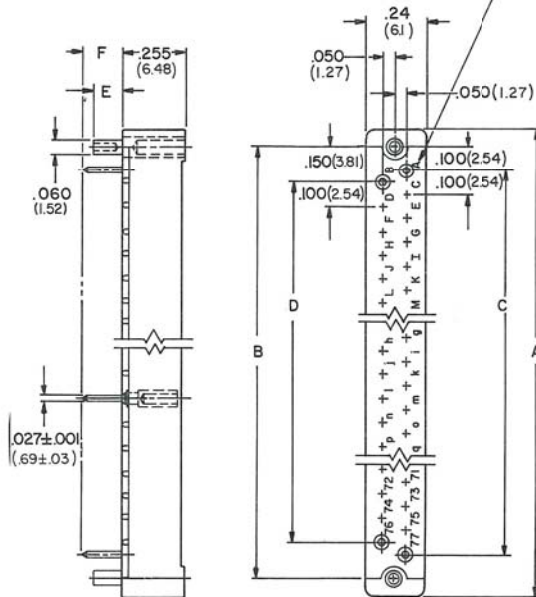
.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)

9,17,25,33,41,61,77 CONTACTS

MIL-C-55302/6



CONTACT IDENTIFICATION —
NUMERICAL – SIZES 61 & 77 ONLY
ALPHABETICAL-ALL OTHER SIZES



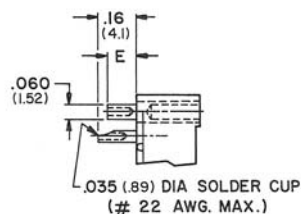
Straight-Thru Sockets

PART NO.	E	F
600-1-() SD16	.128 (3.25)	.164 (4.17)
600-1-() SD11	.090 (2.29)	.110 (2.79)
600-1-() SD16-1	.090 (2.29)	.164 (4.17)
600-1-() SD11-1	.128 (3.25)	.110 (2.79)

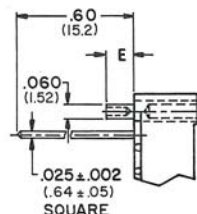
↑ Insert number of contacts
(9, 17, 25, 33, 41, 61, 77)

ALTERNATE TERMINALS ON RECEPTACLES

Solder Cup



Wrapping

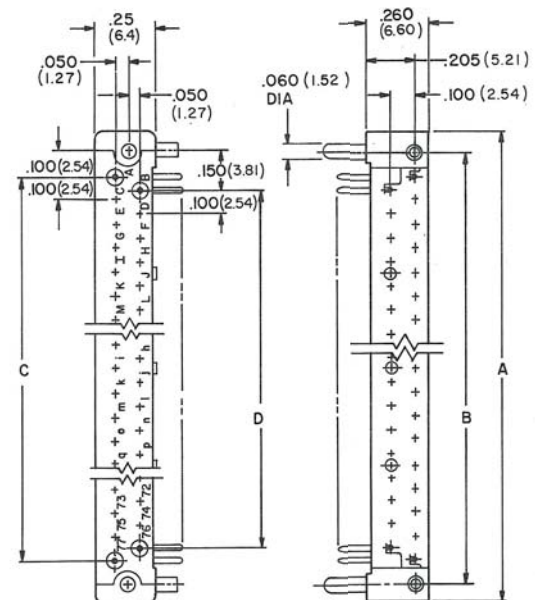
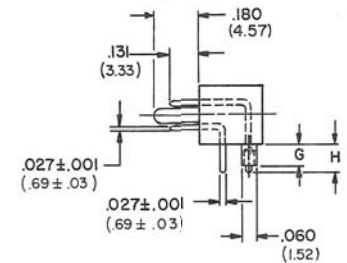


PART NO.	E
600-1-() SC	.090 (2.29)
600-1-() SC-1	.128 (3.25)

PART NO.	E
600-1-() SW	.128 (3.25)
600-1-() SW-1	.090 (2.29)

SPECIFICATIONS: Refer to page 9

MIL-C-55302/4



Right-Angle Pins

PART NO.	G	H
600-1- () P	.090 (2.29)	.110 (2.79)
600-1- () P1	.128 (3.25)	.140 (3.56)

↑ Insert number of contacts
(9, 17, 25, 33, 41, 61, 77)

NO. OF CONTACTS	DIMENSIONS			
	A	B	C	D
9	.75 (19.1)	.600 (15.24)	.400 (10.16)	.300 (7.62)
17	1.15 (29.2)	1.000 (25.40)	.800 (20.32)	.700 (17.78)
25	1.55 (39.4)	1.400 (35.56)	1.200 (30.48)	1.100 (27.94)
33	1.95 (49.5)	1.800 (45.72)	1.600 (40.64)	1.500 (38.10)
41	2.35 (59.7)	2.200 (55.88)	2.000 (50.80)	1.900 (48.26)
61	3.35 (85.1)	3.200 (81.28)	3.000 (76.20)	2.900 (73.66)
77	4.15 (105.4)	4.000 (101.60)	3.800 (96.52)	3.700 (93.98)

CROSS-REFERENCE

<u>MIL P/N</u>	<u>CCC P/N</u>	<u>MIL P/N</u>	<u>CCC P/N</u>
M55302/4-01	600-1-9P	M55302/6-01	600-1-9SD16
M55302/4-02	600-1-17P	M55302/6-02	600-1-17SD16
M55302/4-03	600-1-25P	M55302/6-03	600-1-25SD16
M55302/4-04	600-1-33P	M55302/6-04	600-1-33SD16
M55302/4-05	600-1-41P	M55302/6-05	600-1-41SD16
M55302/4-06	600-1-77P	M55302/6-06	600-1-77SD16

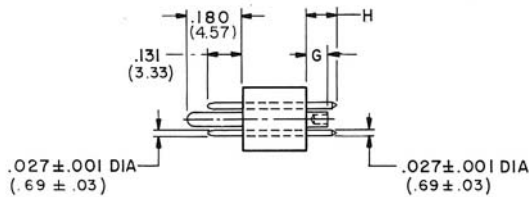
.100" (2.54 MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
9,17,25,33,41,77 CONTACTS

ST600-1, LPST600-1

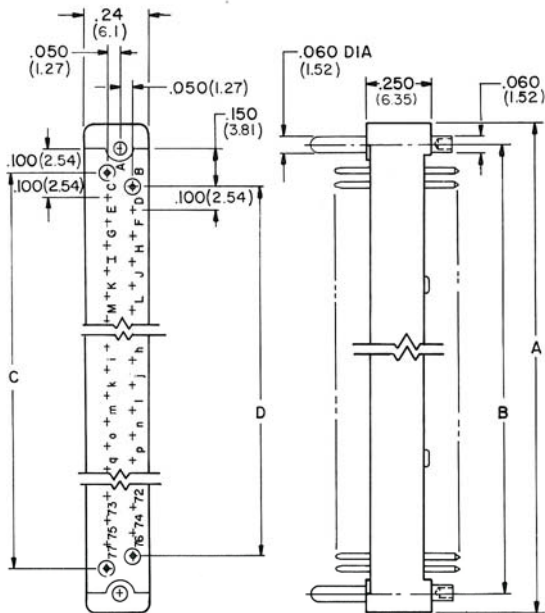
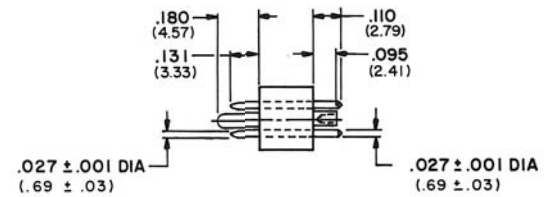
MIL-C-55302/5

PRINTED CIRCUIT PIN CONNECTORS

MIL-C-55302/5



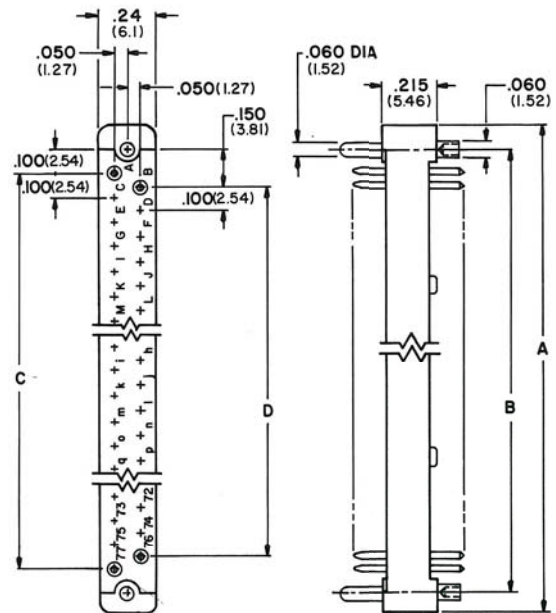
LOW PROFILE



Straight-Thru Pins

PART NO.		G	H
ST600-1-()P	P	.090 (2.29)	.110 (2.79)
ST600-1-()P1	P1	.128 (3.25)	.164 (4.17)
ST600-1-()P2	P2	.090 (2.29)	.164 (4.14)

↑ Insert number of contacts
(9, 17, 25, 33, 41, 77)



Straight-Thru Pins

LPST600-1-()P

↑ Insert number of contacts
(9, 17, 25, 33, 41, 77)

NO. OF CONTACTS	DIMENSIONS			
	A	B	C	D
9	.75 (19.1)	.600 (15.24)	.400 (10.16)	.300 (7.62)
17	1.15 (29.2)	1.000 (25.40)	.800 (20.32)	.700 (17.78)
25	1.55 (39.4)	1.400 (35.56)	1.200 (30.48)	1.100 (27.94)
33	1.95 (49.5)	1.800 (45.72)	1.600 (40.64)	1.500 (38.10)
41	2.35 (59.7)	2.200 (55.88)	2.000 (50.80)	1.900 (48.26)
77	4.15 (105.4)	4.000 (101.60)	3.800 (96.52)	3.700 (93.98)

CROSS-REFERENCE

MIL P/N	CCC P/N
M55302/5-01	ST600-1-9P1
M55302/5-02	ST600-1-17P1
M55302/5-03	ST600-1-25P1
M55302/5-04	ST600-1-33P1
M55302/5-05	ST600-1-41P1
M55302/5-06	ST600-1-77P1

SPECIFICATIONS: Refer to page 9

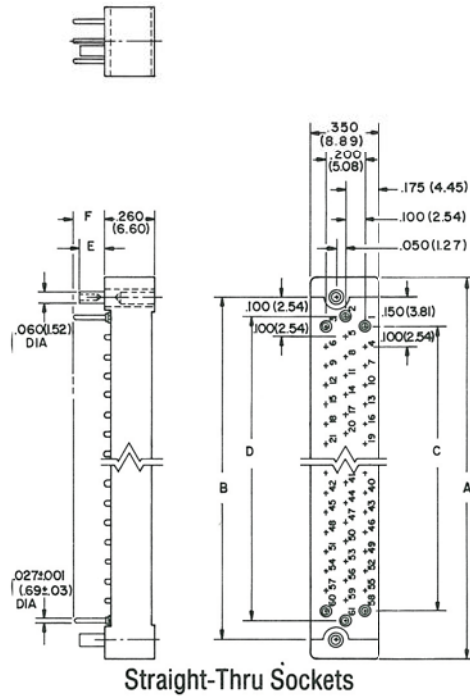
MATING CONNECTORS: Series ST600-1 and LPST600-1 pin connectors mate with Series 600-1 socket connectors.

610-1 MIL-C-55302/7,8

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

100" (2.54MM) CONTACT SPACING
3 ROWS OFFSET .050" (1.27MM)
13,25,37,49,61 CONTACTS

MIL-C-55302/8

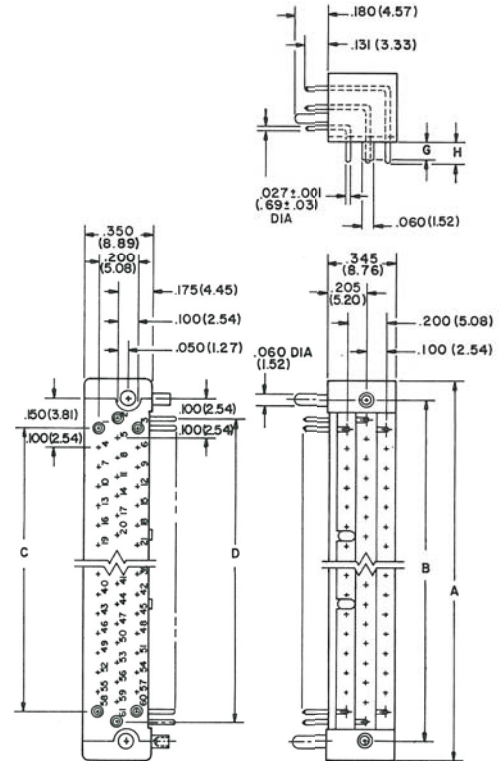


Straight-Thru Sockets

PART NO.	E	F
610-1-()SD16	.128 (3.25)	.164 (4.17)
610-1-()SD11	.090 (2.29)	.110 (2.79)

↑ Insert number of contacts
(13, 25, 37, 49, 61)

MIL-C-55302/7



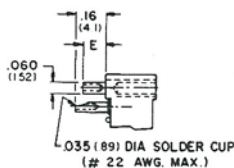
Right-Angle Pins

PART NO.	G	H
610-1-()P	.090 (2.29)	.110 (2.79)
610-1-()P1	.128 (3.25)	.140 (3.56)

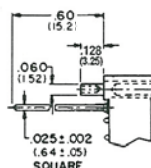
↑ Insert number of contacts
(13, 25, 37, 49, 61)

ALTERNATE TERMINALS ON RECEPTACLES

Solder Cup



Wrapping



610-1-()SW

PART NO.	E
610-1-()SC	.090 (2.29)
610-1-()SC-1	.128 (3.25)

NO. OF CONTACTS	DIMENSIONS			
	A	B	C	D
13	.800 (20.32)	.600 (15.24)	.300 (7.62)	.400 (10.16)
25	1.200 (30.48)	1.000 (25.40)	.700 (17.78)	.800 (20.32)
37	1.600 (40.64)	1.400 (35.56)	1.100 (27.94)	1.200 (30.48)
49	2.000 (50.80)	1.800 (45.72)	1.500 (38.10)	1.600 (40.64)
61	2.400 (60.96)	2.200 (55.88)	1.900 (48.26)	2.000 (50.80)

CROSS-REFERENCE

MIL P/N	CCC P/N	MIL P/N	CCC P/N
M55302/7-01	610-1-13P	M55302/8-01	610-1-13SD16
M55302/7-02	610-1-25P	M55302/8-02	610-1-25SD16
M55302/7-03	610-1-37P	M55302/8-03	610-1-37SD16
M55302/7-04	610-1-49P	M55302/8-04	610-1-49SD16
M55302/7-05	610-1-61P	M55302/8-05	610-1-61SD16

SPECIFICATIONS: Refer to page 9

.100" (2.54MM) CONTACT SPACING
3 ROWS OFFSET .050" (1.27MM)

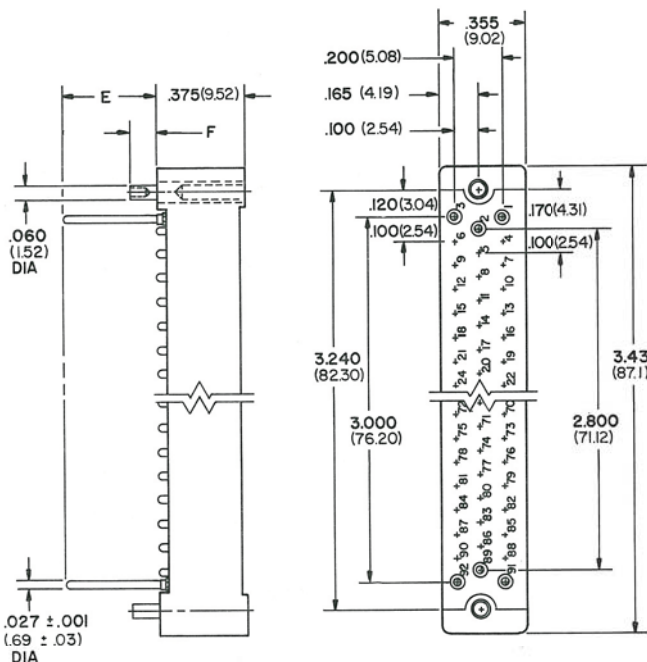
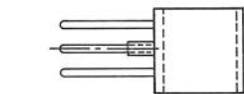
92 CONTACTS

610-1

MIL-C-55302/21,22

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

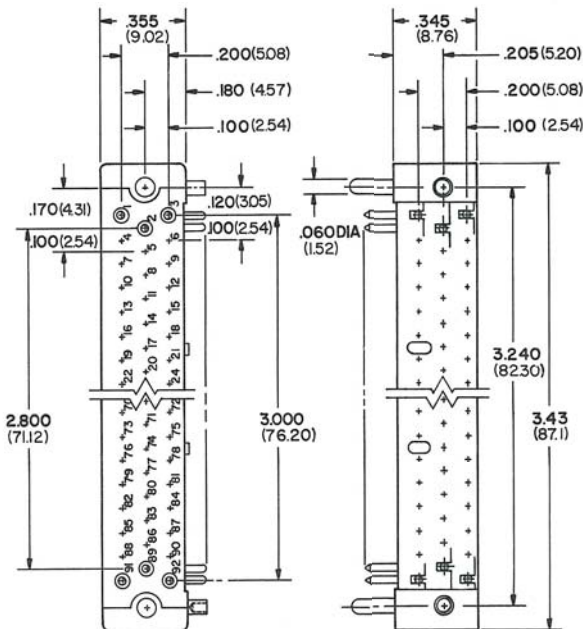
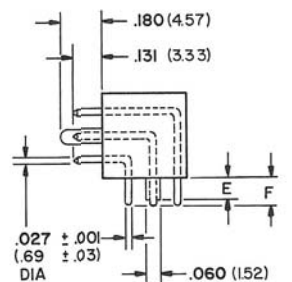
MIL-C-55302/22



Straight-Thru Sockets

PART NO.	E	F
610-1-92 SD39	.390 (9.91)	.112 (2.84)
610-1-92 SD16	.158 (4.01)	.145 (3.68)
610-1-92 SD15	.145 (3.68)	.154 (3.91)

MIL-C-55302/21

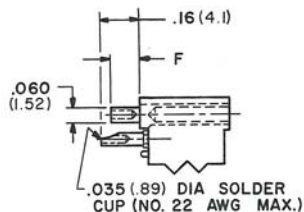


Right-Angle Pins

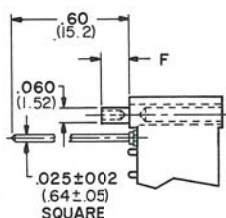
PART NO.	E	F
610-1-92P	.087 (2.21)	.092 (2.34)
610-1-92P1	.145 (3.68)	.154 (3.91)

ALTERNATE TERMINALS ON RECEPTACLES

Solder Cup



Wrapping



PART NO.	F
610-1-92 SC	.112 (2.84)
610-1-92 SC-1	.150 (3.81)

PART NO.	F
610-1-92 SW	.112 (2.84)
610-1-92 SW-1	.150 (3.81)

CROSS-REFERENCE

MIL P/N

M55302/21-01
M55302/21-02
M55302/22-01
M55302/22-02
M55302/22-03

CCC P/N

610-1-92P
610-1-92P1
610-1-92SD39
610-1-92SD16
610-1-92SD15

SPECIFICATIONS: Refer to page 9

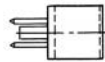
615-1 MIL-C-55302/1,2

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

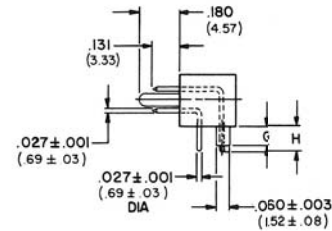
.150" (3.81MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)

7,12,17,23,28 CONTACTS

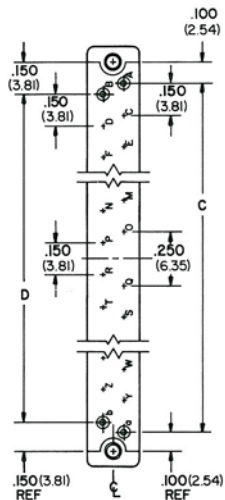
MIL-C-55302/2



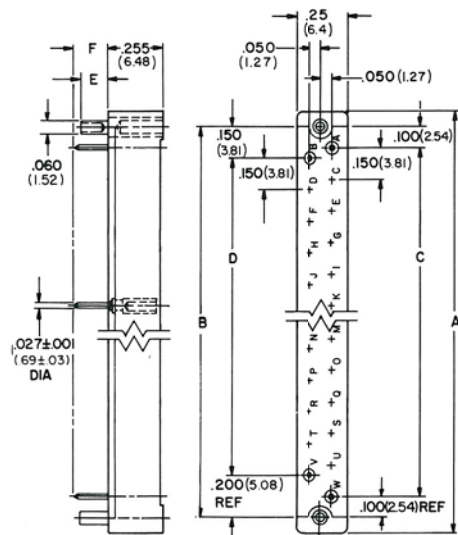
MIL-C-55302/1



Arrangement for
Sizes 12 & 28



Arrangement for
Sizes 7, 17 & 23

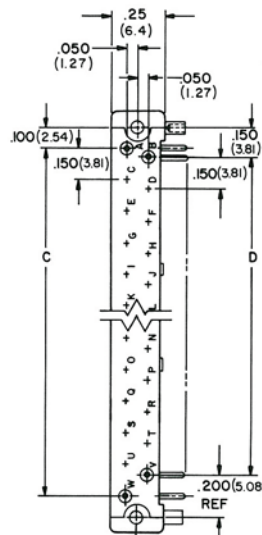


Straight-Thru Sockets

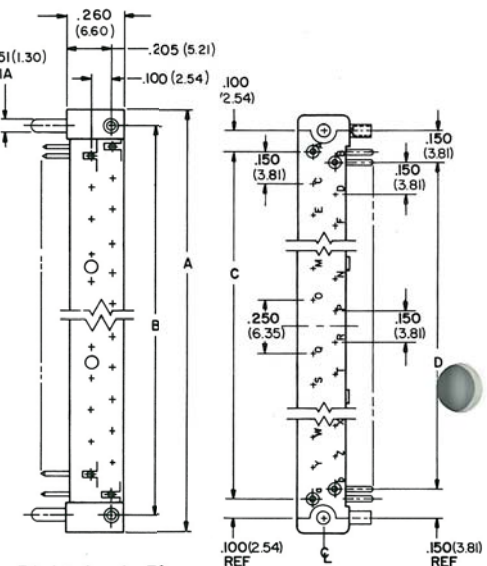
PART	E	F
615-1-()SD16	.128 (3.25)	.164 (4.17)
615-1-()SD11	.090 (2.29)	.110 (2.79)
615-1-()SD16-1	.090 (2.29)	.164 (4.17)
615-1-()SD11-1	.128 (3.25)	.110 (2.79)
615-1-()SD16-2	.145 (3.68)	.164 (4.17)

↑ Insert number of contacts
(7, 12, 17, 23, 28)

Arrangement for
Sizes 7, 17 & 23



Arrangement for
Sizes 12 & 28



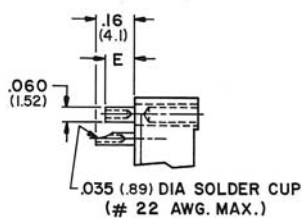
Right-Angle Pins

PART NO.	G	H
615-1-()P	.090 (2.29)	.110 (2.79)
615-1-()P1	.128 (3.25)	.140 (3.56)

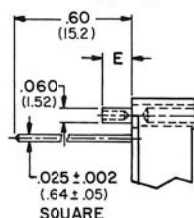
↑ Insert number of contacts
(7, 12, 17, 23, 28)

ALTERNATE TERMINALS ON RECEPTACLES

Solder Cup



Wrapping



PART NO.	E
615-1-()SC	.090 (2.29)
615-1-()SC-1	.128 (3.25)

PART NO.	E
615-1-()SW	.128 (3.25)
615-1-()SW-1	.090 (2.29)

NO. OF CONTACTS	DIMENSIONS			
	A	B	C	D
7	.800 (20.32)	.650 (16.51)	.450 (11.43)	.300 (7.62)
12	1.200 (30.48)	1.050 (26.67)	.850 (21.59)	.750 (19.05)
17	1.550 (39.37)	1.400 (35.56)	1.200 (30.48)	1.050 (26.67)
23	2.000 (50.80)	1.850 (46.99)	1.650 (41.91)	1.500 (38.10)
28	2.400 (60.96)	2.250 (57.15)	2.050 (52.07)	1.950 (49.53)

CROSS-REFERENCE

MIL P/N

M55302/1-03
M55302/1-04
M55302/1-05

M55302/2-03
M55302/2-04
M55302/2-05

CCC P/N

615-1-17P
615-1-23P
615-1-28P

615-1-17SD16
615-1-23SD16
615-1-28SD16

SPECIFICATIONS: Refer to page 9

SPECIFICATIONS

SERIES 600-1, ST600-1, LPST600-1, 610-1, 615-1 (MIL-C-55302/1,/2,/4,/5,/6,/7,/8,/21,/22)

FEATURES

Micro-miniature, right-angle and straight-thru pins, and straight-thru sockets, designed for use with single, double and multi-layered board-to-board applications.

Small in size and weight; ruggedly constructed; suitable for use in airborne, ground systems, and commercial applications.

In conformance with the material, finish, design and performance requirements (electrical, mechanical, environmental) of MIL-C-55302.

Suitable for board thicknesses of .062"(1.57mm) and .094"(2.39mm). Readily adaptable to all thicknesses.

Molded-in hollow rivets for secure mechanical attachment to boards.

Built-in board levelers to resist board bowing during soldering.

Guide pins in pin connectors and guide bushings in sockets connectors to assure alignment during engagement.

Low insertion and withdrawal forces.

MATERIALS & FINISHES

Molded inserts. Glass fiber filled diallyl phthalate per MIL-M-14 type SDG-F, green. Exceptions, series ST600-1 sizes 9, 17, 25 and 77 only, and LPST600-1 sizes 9, 17, 25 and 77 only: Thermoplastic polyester per MIL-M-24519 type GPT-30F, green; or optional polyphenylene sulfide per MIL-M-24519 type GST-40F, brown. Designate polyphenylene sulfide with suffix "-R4" on our part number. Example: ST600-1-77P-R4.

Pin contacts. Phosphor bronze per QQ-B-750. Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches.

Socket contacts. Phosphor bronze per QQ-B-750. Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches. Optional socket material: Beryllium copper per QQ-C-530. Designate beryllium copper with prefix "X" on our part number. Example: X600-1-77SD16.

Guide pins and guide bushings. Brass per QQ-B-626. Gold plated per MIL-G-45204, type II, grade C, class 1, over copper plating.

RATINGS

Test voltages:

Sea level: 1,000 volts rms, 60Hz.

High altitude (70,000 feet): 300 volts rms, 60 Hz.

Contact size: #23, .027"(.69mm) diameter.

Current rating: 5 amperes maximum.

Contact resistance(at 5 amperes): .010 ohm maximum average, .020 ohm maximum individual (per contact).

Insulation resistance: 5,000 megohms, minimum.

Connector mating force: Does not exceed a value equal to 0.5 pound times the number of contacts.

Connector unmating force: Exceeds 0.11 pound times the number of contacts.

Contact separation force (individual contact): 0.5 ounce, minimum.

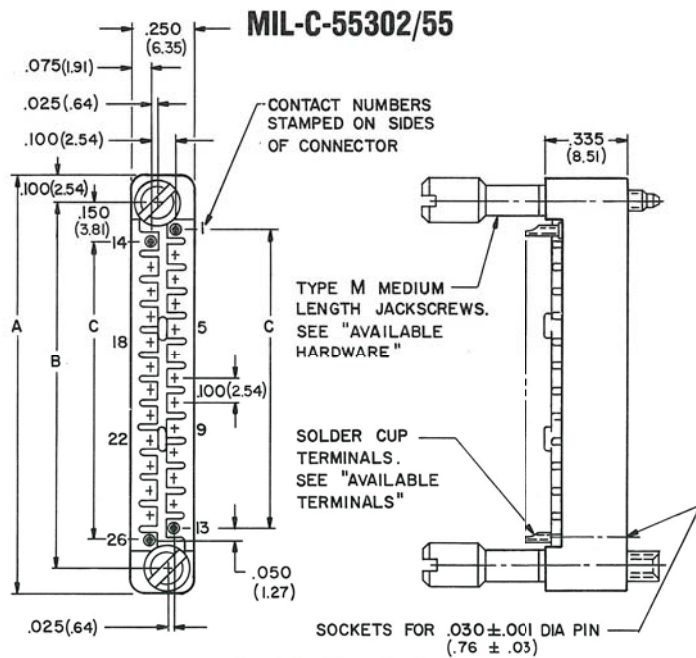
Contact life: 500 cycles mating and unmating.

Connectors meet all other requirements of MIL-C-55302 and the applicable specification sheets.

Series 600-1, ST600-1, LPST600-1, 610-1 and 615-1 are described more comprehensively in our brochure "MIL-C-55302/1 thru /22."

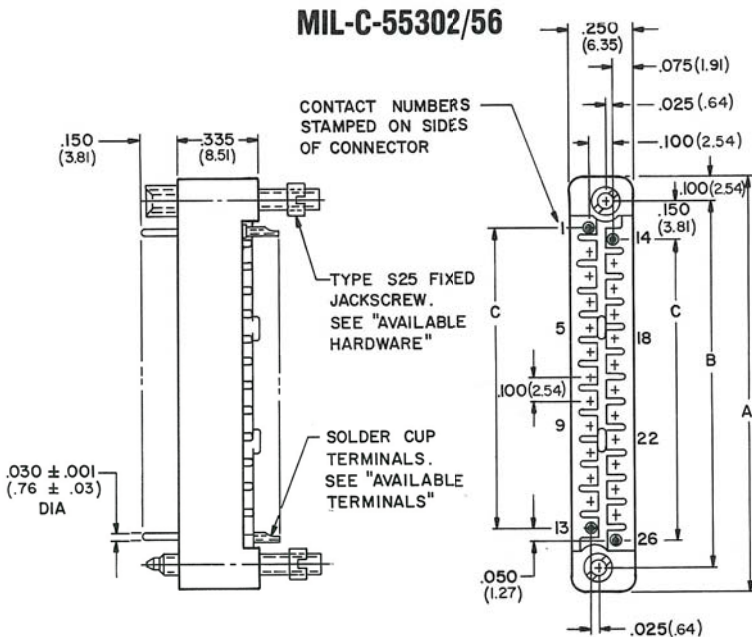
MIL-C-55302/55, /56
PRINTED CIRCUIT PIN & SOCKET CONNECTORS

**.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
10, 14, 20, 24, 26, 30, 36, 40, 44,
50, 54, 56, 60, 66, 70, 78 CONTACTS**



Straight-Thru Sockets

M⁽¹⁾S⁽²⁾(³)



Straight-Thru Pins
M(1)P(2)(3)

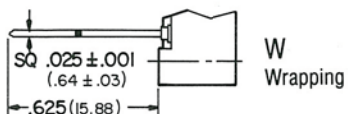
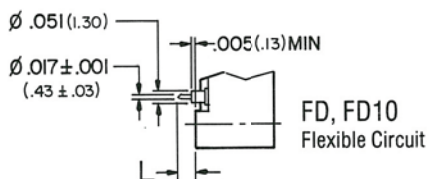
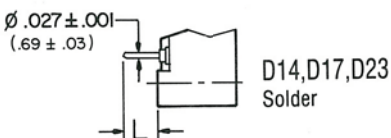
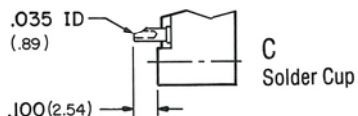
¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70, 78

² Terminals: C, D14, D17, D23, FD, FD10, W

³ Hardware: KL, KM, KS, K6, S25, X25, Y25-+

Options: Beryllium copper contacts, low force sockets, closed entry sockets, polyphenylene sulfide plastic bodies, alternate polarization, and as required by customer.

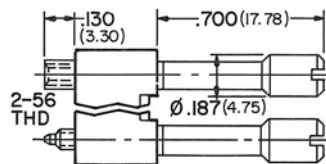
TERMINALS



L	ORDERING CODE
.140 (3.56)	D14
.172 (4.37)	D17
.234 (5.94)	D23

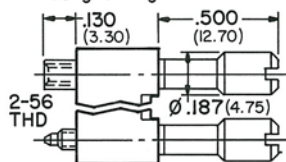
L	ORDERING CODE
.058 (1.47)	FD
.100 (2.54)	FD10

HARDWARE



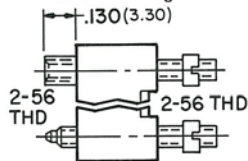
KL

Long Turning Slotted Screwlocks



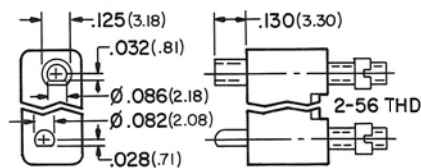
KM

Medium Turning Slotted Screwlocks



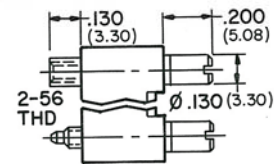
S25

Fixed Screwlocks



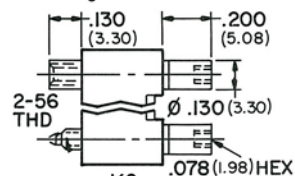
Y25-+

Adjustable Polarizing D-Shaped Guides



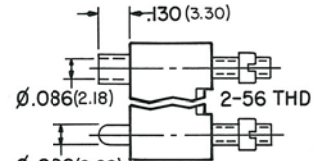
KS

Short Turning Slotted Screwlocks



K6

Short Turning Hex. Screwlocks



X25

Full Round Guides

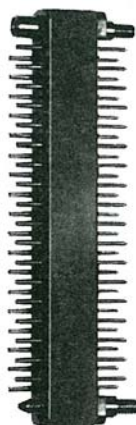
Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

SPECIFICATIONS: Refer to page 27

NO. OF CONTACTS	DIMENSIONS		
	A	B	C
10	.850 (21.59)	.650 (16.51)	.400 (10.16)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)
40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)
44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)
50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
78	4.250 (107.95)	4.050 (102.87)	3.800 (96.52)



M36SD14KM
(M55302/55-B36M)



M36PD14S25
(M55302/56B36)

CROSS-REFERENCE

MIL P/N

M55302/55-A⁽¹⁾H
M55302/55-A⁽¹⁾L
M55302/55-A⁽¹⁾M
M55302/55-A⁽¹⁾S
M55302/55-B⁽¹⁾H
M55302/55-B⁽¹⁾L
M55302/55-B⁽¹⁾M
M55302/55-B⁽¹⁾S
M55302/55-C⁽¹⁾H
M55302/55-C⁽¹⁾L
M55302/55-C⁽¹⁾M
M55302/55-C⁽¹⁾S
M55302/55-D⁽¹⁾H
M55302/55-D⁽¹⁾L
M55302/55-D⁽¹⁾M
M55302/55-D⁽¹⁾S
M55302/55-E⁽¹⁾H
M55302/55-E⁽¹⁾L
M55302/55-E⁽¹⁾M
M55302/55-E⁽¹⁾S
M55302/55-F⁽¹⁾H
M55302/55-F⁽¹⁾L
M55302/55-F⁽¹⁾M
M55302/55-F⁽¹⁾S

CCC P/N

M⁽¹⁾SCK6
M⁽¹⁾SCKL
M⁽¹⁾SCKM
M⁽¹⁾SCKS
M⁽¹⁾SD14K6
M⁽¹⁾SD14KL
M⁽¹⁾SD14KM
M⁽¹⁾SD14KS
M⁽¹⁾SD17K6
M⁽¹⁾SD17KL
M⁽¹⁾SD17KM
M⁽¹⁾SD17KS
M⁽¹⁾SFDK6
M⁽¹⁾SFDKL
M⁽¹⁾SFDKM
M⁽¹⁾SFDKS
M⁽¹⁾SD23K6
M⁽¹⁾SD23KL
M⁽¹⁾SD23KM
M⁽¹⁾SD23KS
M⁽¹⁾SFD10K6
M⁽¹⁾SFD10KL
M⁽¹⁾SFD10KM
M⁽¹⁾SFD10KS

CCC P/N

(Closed entry)

CM⁽¹⁾SCK6
CM⁽¹⁾SCKL
CM⁽¹⁾SCKM
CM⁽¹⁾SCKS
CM⁽¹⁾SD14K6
CM⁽¹⁾SD14KL
CM⁽¹⁾SD14KM
CM⁽¹⁾SD14KS
CM⁽¹⁾SD17K6
CM⁽¹⁾SD17KL
CM⁽¹⁾SD17KM
CM⁽¹⁾SD17KS
CM⁽¹⁾SFDK6
CM⁽¹⁾SFDKL
CM⁽¹⁾SFDKM
CM⁽¹⁾SFDKS
CM⁽¹⁾SD23K6
CM⁽¹⁾SD23KL
CM⁽¹⁾SD23KM
CM⁽¹⁾SD23KS
CM⁽¹⁾SFD10K6
CM⁽¹⁾SFD10KL
CM⁽¹⁾SFD10KM
CM⁽¹⁾SFD10KS

Low insertion force sockets

M55302/55LA⁽¹⁾H
M55302/55LA⁽¹⁾L
M55302/55LA⁽¹⁾M
M55302/55LA⁽¹⁾S
M55302/55LB⁽¹⁾H
M55302/55LB⁽¹⁾L
M55302/55LB⁽¹⁾M
M55302/55LB⁽¹⁾S
M55302/55LC⁽¹⁾H
M55302/55LC⁽¹⁾L
M55302/55LC⁽¹⁾M
M55302/55LC⁽¹⁾S
M55302/55LD⁽¹⁾H
M55302/55LD⁽¹⁾L
M55302/55LD⁽¹⁾M
M55302/55LD⁽¹⁾S
M55302/55LE⁽¹⁾H
M55302/55LE⁽¹⁾L
M55302/55LE⁽¹⁾M
M55302/55LE⁽¹⁾S
M55302/55LF⁽¹⁾H
M55302/55LF⁽¹⁾L
M55302/55LF⁽¹⁾M
M55302/55LF⁽¹⁾S

LM⁽¹⁾SCK6
LM⁽¹⁾SCKL
LM⁽¹⁾SCKM
LM⁽¹⁾SCKS
LM⁽¹⁾SD14K6
LM⁽¹⁾SD14KL
LM⁽¹⁾SD14KM
LM⁽¹⁾SD14KS
LM⁽¹⁾SD17K6
LM⁽¹⁾SD17KL
LM⁽¹⁾SD17KM
LM⁽¹⁾SD17KS
LM⁽¹⁾SFDK6
LM⁽¹⁾SFDKL
LM⁽¹⁾SFDKM
LM⁽¹⁾SFDKS
LM⁽¹⁾SD23K6
LM⁽¹⁾SD23KL
LM⁽¹⁾SD23KM
LM⁽¹⁾SD23KS
LM⁽¹⁾SFD10K6
LM⁽¹⁾SFD10KL
LM⁽¹⁾SFD10KM
LM⁽¹⁾SFD10KS

LCM⁽¹⁾SCK6
LCM⁽¹⁾SCKL
LCM⁽¹⁾SCKM
LCM⁽¹⁾SCKS
LCM⁽¹⁾SD14K6
LCM⁽¹⁾SD14KL
LCM⁽¹⁾SD14KM
LCM⁽¹⁾SD14KS
LCM⁽¹⁾SD17K6
LCM⁽¹⁾SD17KL
LCM⁽¹⁾SD17KM
LCM⁽¹⁾SD17KS
LCM⁽¹⁾SFDK6
LCM⁽¹⁾SFDKL
LCM⁽¹⁾SFDKM
LCM⁽¹⁾SFDKS
LCM⁽¹⁾SD23K6
LCM⁽¹⁾SD23KL
LCM⁽¹⁾SD23KM
LCM⁽¹⁾SD23KS
LCM⁽¹⁾SFD10K6
LCM⁽¹⁾SFD10KL
LCM⁽¹⁾SFD10KM
LCM⁽¹⁾SFD10KS

MIL P/N

M55302/56A⁽¹⁾
M55302/56B⁽¹⁾
M55302/56C⁽¹⁾
M55302/56D⁽¹⁾
M55302/56E⁽¹⁾
M55302/56F⁽¹⁾

CCC P/N

M⁽¹⁾PCS25
M⁽¹⁾PD14S25
M⁽¹⁾PD17S25
M⁽¹⁾PWS25
M⁽¹⁾PFDS25
M⁽¹⁾PF10S25

¹Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

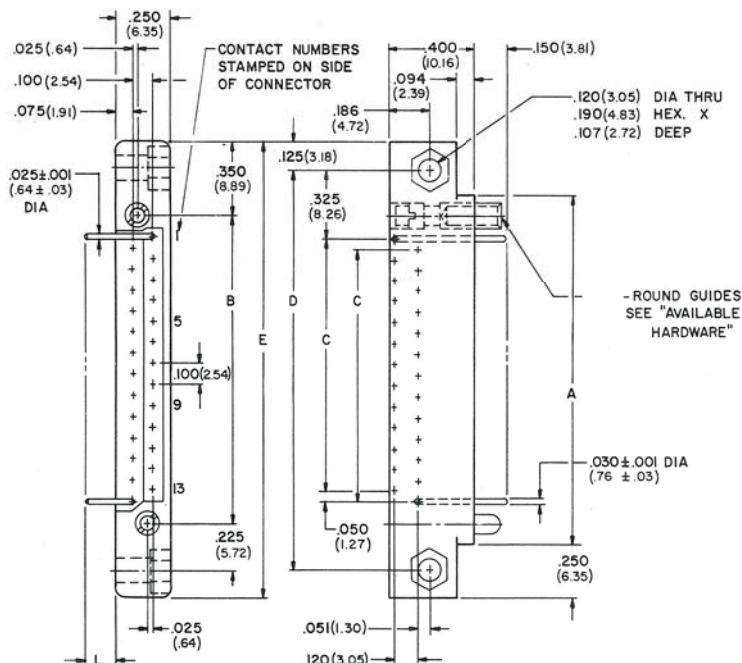
MARP, MAR

MIL-C-55302/57, /58, /61

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
10, 14, 20, 24, 26, 30, 36, 40, 44,
50, 54, 56, 60, 66, 70 CONTACTS

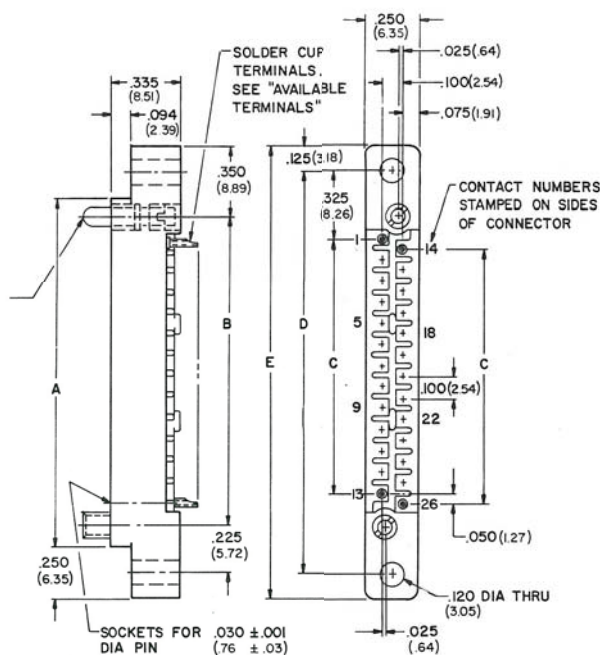
MIL-C-55302/57, /61



Right-Angle Pins
MARP⁽¹⁾P⁽²⁾(³)

L	ORDERING CODE
.109 (2.77)	D911
.140 (3.56)	D914
.172 (4.37)	D917

MIL-C-55302/58



Straight-Thru Sockets
MAR⁽¹⁾S⁽²⁾(³)

TERMINALS (for "MAR"): Same as on page 10

HARDWARE: Same as on page 14

SPECIFICATIONS: Refer to page 27

¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

² Terminals: Series MARP: D911, D914, D917

Series MAR: C, D14, D17, D23, FD, FD10, W

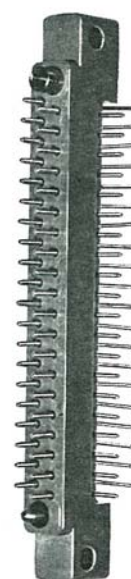
³ Hardware: KS, K6, S, X, Y, -

Options: Beryllium copper contacts, low force sockets, closed entry sockets, polyphenylene sulfide plastic bodies, alternate polarization, and as required by customer.

NO. OF CONTACTS	DIMENSIONS				
	A	B	C	D	E
10	.850 (21.59)	.650 (16.51)	.400 (10.16)	1.100 (27.94)	1.350 (34.29)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)	1.300 (33.02)	1.550 (39.37)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)	1.600 (40.64)	1.850 (46.99)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)



MAR40SCX
(M55302/58-A40X)



MARP40PD14X
(M55302/57B40X)

40 Contacts

CROSS-REFERENCE

MIL P/N	CCC P/N
M55302/57A(1)H	MARP(1)PD911K6
M55302/57A(1)S	MARP(1)PD911KS
M55302/57A(1)X	MARP(1)PD911X
2 M55302/57A(1)Y	MARP(1)PD911Y
3 M55302/57A(1)Y-0	MARP(1)PD911Y-0
4 M55302/57A(1)Y+	MARP(1)PD911Y+
M55302/57B(1)H	MARP(1)PD914K6
M55302/57B(1)S	MARP(1)PD914KS
M55302/57B(1)X	MARP(1)PD914X
2 M55302/57B(1)Y	MARP(1)PD914Y
3 M55302/57B(1)Y-0	MARP(1)PD914Y-0
4 M55302/57B(1)Y+	MARP(1)PD914Y+
M55302/57C(1)H	MARP(1)PD917K6
M55302/57C(1)S	MARP(1)PD917KS
M55302/57C(1)X	MARP(1)PD917X
2 M55302/57C(1)Y	MARP(1)PD917Y
3 M55302/57C(1)Y-0	MARP(1)PD917Y-0
4 M55302/57C(1)Y+	MARP(1)PD917Y+

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/58-A(1)F	MAR(1)SCS	CMAR(1)SCS
M55302/58-A(1)H	MAR(1)SCK6	CMAR(1)SCK6
M55302/58-A(1)S	MAR(1)SCKS	CMAR(1)SCKS
M55302/58-A(1)X	MAR(1)SCX	CMAR(1)SCX
2 M55302/58-A(1)Y	MAR(1)SCY	CMAR(1)SCY
3 M55302/58-A(1)Y-0	MAR(1)SCY-0	CMAR(1)SCY-0
4 M55302/58-A(1)Y+	MAR(1)SCY+	CMAR(1)SCY+
M55302/58-B(1)F	MAR(1)SD14S	CMAR(1)SD14S
M55302/58-B(1)H	MAR(1)SD14K6	CMAR(1)SD14K6
M55302/58-B(1)S	MAR(1)SD14KS	CMAR(1)SD14KS
M55302/58-B(1)X	MAR(1)SD14X	CMAR(1)SD14X
2 M55302/58-B(1)Y	MAR(1)SD14Y	CMAR(1)SD14Y
3 M55302/58-B(1)Y-0	MAR(1)SD14Y-0	CMAR(1)SD14Y-0
4 M55302/58-B(1)Y+	MAR(1)SD14Y+	CMAR(1)SD14Y+
M55302/58-C(1)F	MAR(1)SD17S	CMAR(1)SD17S
M55302/58-C(1)H	MAR(1)SD17K6	CMAR(1)SD17K6
M55302/58-C(1)S	MAR(1)SD17KS	CMAR(1)SD17KS
M55302/58-C(1)X	MAR(1)SD17X	CMAR(1)SD17X
2 M55302/58-C(1)Y	MAR(1)SD17Y	CMAR(1)SD17Y
3 M55302/58-C(1)Y-0	MAR(1)SD17Y-0	CMAR(1)SD17Y-0
4 M55302/58-C(1)Y+	MAR(1)SD17Y+	CMAR(1)SD17Y+
M55302/58-D(1)F	MAR(1)SD23S	CMAR(1)SD23S
M55302/58-D(1)H	MAR(1)SD23K6	CMAR(1)SD23K6
M55302/58-D(1)S	MAR(1)SD23KS	CMAR(1)SD23KS
M55302/58-D(1)X	MAR(1)SD23X	CMAR(1)SD23X
2 M55302/58-D(1)Y	MAR(1)SD23Y	CMAR(1)SD23Y
3 M55302/58-D(1)Y-0	MAR(1)SD23Y-0	CMAR(1)SD23Y-0
4 M55302/58-D(1)Y+	MAR(1)SD23Y+	CMAR(1)SD23Y+
M55302/58-E(1)F	MAR(1)SFD10S	CMAR(1)SFD10S
M55302/58-E(1)H	MAR(1)SFD10K6	CMAR(1)SFD10K6
M55302/58-E(1)S	MAR(1)SFD10KS	CMAR(1)SFD10KS
M55302/58-E(1)X	MAR(1)SFD10X	CMAR(1)SFD10X
2 M55302/58-E(1)Y	MAR(1)SFD10Y	CMAR(1)SFD10Y
3 M55302/58-E(1)Y-0	MAR(1)SFD10Y-0	CMAR(1)SFD10Y-0
4 M55302/58-E(1)Y+	MAR(1)SFD10Y+	CMAR(1)SFD10Y+
M55302/58-F(1)F	MAR(1)SD23S	CMAR(1)SD23S
M55302/58-F(1)H	MAR(1)SD23K6	CMAR(1)SD23K6
M55302/58-F(1)S	MAR(1)SD23KS	CMAR(1)SD23KS
M55302/58-F(1)X	MAR(1)SD23X	CMAR(1)SD23X
2 M55302/58-F(1)Y	MAR(1)SD23Y	CMAR(1)SD23Y
3 M55302/58-F(1)Y-0	MAR(1)SD23Y-0	CMAR(1)SD23Y-0
4 M55302/58-F(1)Y+	MAR(1)SD23Y+	CMAR(1)SD23Y+
M55302/58-G(1)F	MAR(1)SFD10S	CMAR(1)SFD10S
M55302/58-G(1)H	MAR(1)SFD10K6	CMAR(1)SFD10K6
M55302/58-G(1)S	MAR(1)SFD10KS	CMAR(1)SFD10KS
M55302/58-G(1)X	MAR(1)SFD10X	CMAR(1)SFD10X
2 M55302/58-G(1)Y	MAR(1)SFD10Y	CMAR(1)SFD10Y
3 M55302/58-G(1)Y-0	MAR(1)SFD10Y-0	CMAR(1)SFD10Y-0
4 M55302/58-G(1)Y+	MAR(1)SFD10Y+	CMAR(1)SFD10Y+

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/58-H(1)X	MAR(1)SFD10X	CMAR(1)SFD10X
2 M55302/58-H(1)Y	MAR(1)SFD10Y	CMAR(1)SFD10Y
3 M55302/58-H(1)Y-0	MAR(1)SFD10Y-0	CMAR(1)SFD10Y-0
4 M55302/58-H(1)Y+	MAR(1)SFD10Y+	CMAR(1)SFD10Y+

Low insertion force sockets

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/58LA(1)F	LMAR(1)SCS	LCMAR(1)SCS
M55302/58LA(1)H	LMAR(1)SCK6	LCMAR(1)SCK6
M55302/58LA(1)S	LMAR(1)SCKS	LCMAR(1)SCKS
M55302/58LA(1)X	LMAR(1)SCX	LCMAR(1)SCX
2 M55302/58LA(1)Y	LMAR(1)SCY	LCMAR(1)SCY
3 M55302/58LA(1)Y-0	LMAR(1)SCY-0	LCMAR(1)SCY-0
4 M55302/58LA(1)Y+	LMAR(1)SCY+	LCMAR(1)SCY+
M55302/58LB(1)F	LMAR(1)SD14S	LCMAR(1)SD14S
M55302/58LB(1)H	LMAR(1)SD14K6	LCMAR(1)SD14K6
M55302/58LB(1)S	LMAR(1)SD14KS	LCMAR(1)SD14KS
M55302/58LB(1)X	LMAR(1)SD14X	LCMAR(1)SD14X
2 M55302/58LB(1)Y	LMAR(1)SD14Y	LCMAR(1)SD14Y
3 M55302/58LB(1)Y-0	LMAR(1)SD14Y-0	LCMAR(1)SD14Y-0
4 M55302/58LB(1)Y+	LMAR(1)SD14Y+	LCMAR(1)SD14Y+
M55302/58LC(1)F	LMAR(1)SD17S	LCMAR(1)SD17S
M55302/58LC(1)H	LMAR(1)SD17K6	LCMAR(1)SD17K6
M55302/58LC(1)S	LMAR(1)SD17KS	LCMAR(1)SD17KS
M55302/58LC(1)X	LMAR(1)SD17X	LCMAR(1)SD17X
2 M55302/58LC(1)Y	LMAR(1)SD17Y	LCMAR(1)SD17Y
3 M55302/58LC(1)Y-0	LMAR(1)SD17Y-0	LCMAR(1)SD17Y-0
4 M55302/58LC(1)Y+	LMAR(1)SD17Y+	LCMAR(1)SD17Y+
M55302/58LD(1)F	LMAR(1)SWS	LCMAR(1)SWS
M55302/58LD(1)H	LMAR(1)SWK6	LCMAR(1)SWK6
M55302/58LD(1)S	LMAR(1)SWKS	LCMAR(1)SWKS
M55302/58LD(1)X	LMAR(1)SWX	LCMAR(1)SWX
2 M55302/58LD(1)Y	LMAR(1)SWY	LCMAR(1)SWY
3 M55302/58LD(1)Y-0	LMAR(1)SWY-0	LCMAR(1)SWY-0
4 M55302/58LD(1)Y+	LMAR(1)SWY+	LCMAR(1)SWY+
M55302/58LE(1)F	LMAR(1)SFD10S	LCMAR(1)SFD10S
M55302/58LE(1)H	LMAR(1)SFD10K6	LCMAR(1)SFD10K6
M55302/58LE(1)S	LMAR(1)SFD10KS	LCMAR(1)SFD10KS
M55302/58LE(1)X	LMAR(1)SFD10X	LCMAR(1)SFD10X
2 M55302/58LE(1)Y	LMAR(1)SFD10Y	LCMAR(1)SFD10Y
3 M55302/58LE(1)Y-0	LMAR(1)SFD10Y-0	LCMAR(1)SFD10Y-0
4 M55302/58LE(1)Y+	LMAR(1)SFD10Y+	LCMAR(1)SFD10Y+
M55302/58LF(1)F	LMAR(1)SD23S	LCMAR(1)SD23S
M55302/58LF(1)H	LMAR(1)SD23K6	LCMAR(1)SD23K6
M55302/58LF(1)S	LMAR(1)SD23KS	LCMAR(1)SD23KS
M55302/58LF(1)X	LMAR(1)SD23X	LCMAR(1)SD23X
2 M55302/58LF(1)Y	LMAR(1)SD23Y	LCMAR(1)SD23Y
3 M55302/58LF(1)Y-0	LMAR(1)SD23Y-0	LCMAR(1)SD23Y-0
4 M55302/58LF(1)Y+	LMAR(1)SD23Y+	LCMAR(1)SD23Y+
M55302/58LH(1)F	LMAR(1)SFD10S	LCMAR(1)SFD10S
M55302/58LH(1)H	LMAR(1)SFD10K6	LCMAR(1)SFD10K6
M55302/58LH(1)S	LMAR(1)SFD10KS	LCMAR(1)SFD10KS
M55302/58LH(1)X	LMAR(1)SFD10X	LCMAR(1)SFD10X
2 M55302/58LH(1)Y	LMAR(1)SFD10Y	LCMAR(1)SFD10Y
3 M55302/58LH(1)Y-0	LMAR(1)SFD10Y-0	LCMAR(1)SFD10Y-0
4 M55302/58LH(1)Y+	LMAR(1)SFD10Y+	LCMAR(1)SFD10Y+

MIL P/N	CCC P/N
M55302/61LA(1)	MARP(1)PD911S
M55302/61LB(1)	MARP(1)PD914S
M55302/61LC(1)	MARP(1)PD917S

1 Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

2 Polarizing guides in the "-1" position

3 Polarizing guides in the "-1" position, without Loctite

4 Polarizing guides in the "-2" through "-64" positions. Add position number in place of "+" (Position "-1" is otherwise supplied)

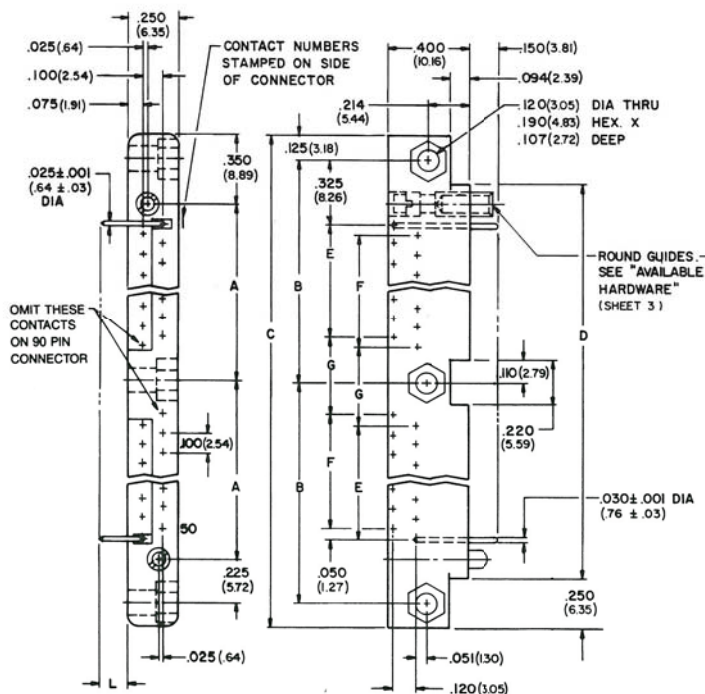
MARP, LMAR MIL-C-55302/59, /60

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)

90, 100, 120 CONTACTS

MIL-C-55302/59

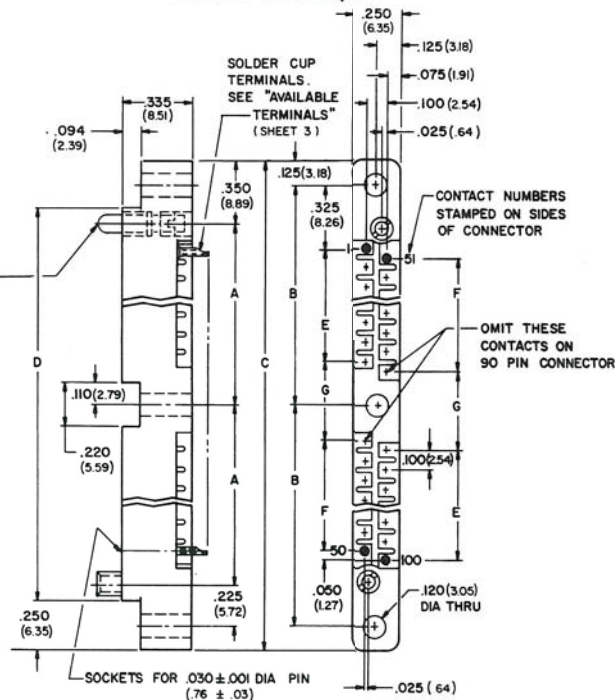


**Right-Angle Pins
MARP(1)P(2)(3)**

L	ORDERING CODE
.109 (2.77)	D911
.140 (3.56)	D914
.172 (4.37)	D917
.203 (5.16)	D920

- 1 Number of contacts: 90, 100, 120
 2 Terminals: Series MARP: D911, D914, D917, D920
 Series LMAR: C, D14, D17, D23, FD, FD10, W
 3 Hardware: KS, K6, S, X, Y-+
 Options: Beryllium copper contacts, closed entry sockets, alternate polarization, and as required by customer.

MIL-C-55302/60

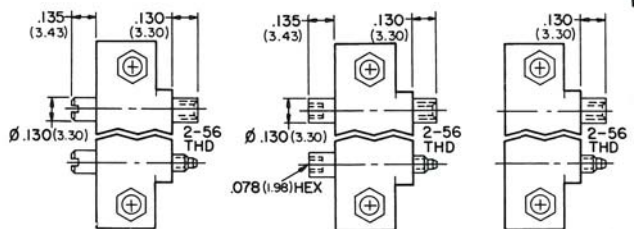


**Straight-Thru Sockets
LMAR(1)S(2)(3)**

NO. OF CONTACTS	DIMENSIONS						
	A	B	C	D	E	F	G
90	2.475 (62.87)	2.700 (68.58)	5.650 (143.51)	5.150 (130.81)	2.200 (55.88)	2.100 (53.34)	.400 (10.16)
100	2.725 (69.22)	2.950 (74.93)	6.150 (156.21)	5.650 (143.51)	2.400 (60.96)	2.400 (60.96)	.400 (10.16)
120	3.225 (81.92)	3.450 (87.63)	7.150 (181.61)	6.650 (168.91)	2.900 (73.66)	2.900 (73.66)	.400 (10.16)

TERMINALS (For "LMAR"): Same as on page 10

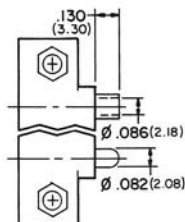
HARDWARE



**KS
Short Turning
Slotted Screwlocks**

**K6
Short Turning
Hex. Screwlocks**

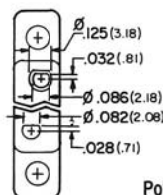
**S
Fixed
Screwlocks**



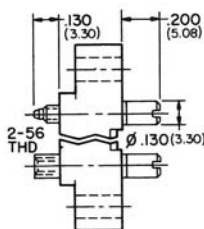
**X
Full Round
Guides**



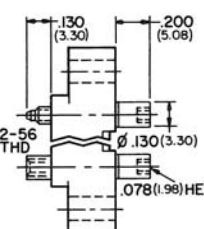
**Y-+
Adjustable Polarizing
D-Shaped Guides**



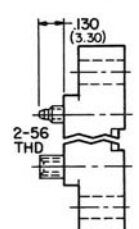
Polarizing guides are available in "-1" through "-64" position variations. Contact factory.



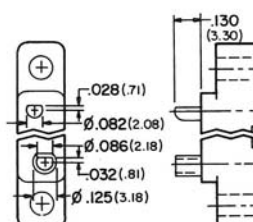
**KS
Short Turning
Slotted Screwlocks**



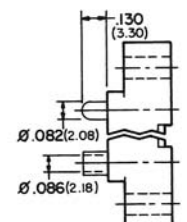
**K6
Short Turning
Hex. Screwlocks**



**S
Fixed
Screwlocks**



**Y-+
Adjustable Polarizing
D-Shaped Guides**



**X
Full Round
Guides**

CROSS-REFERENCE

MIL P/N	CCC P/N
M55302/59A(1)F	MARP(1)PD911S
M55302/59A(1)H	MARP(1)PD911K6
M55302/59A(1)S	MARP(1)PD911KS
M55302/59A(1)X	MARP(1)PD911X
² M55302/59A(1)Y	MARP(1)PD911Y
³ M55302/59A(1)Y-0	MARP(1)PD911Y-0
⁴ M55302/59A(1)Y-+	MARP(1)PD911Y-+
M55302/59B(1)F	MARP(1)PD914S
M55302/59B(1)H	MARP(1)PD914K6
M55302/59B(1)S	MARP(1)PD914KS
M55302/59B(1)X	MARP(1)PD914X
² M55302/59B(1)Y	MARP(1)PD914Y
³ M55302/59B(1)Y-0	MARP(1)PD914Y-0
⁴ M55302/59B(1)Y-+	MARP(1)PD914Y-+
M55302/59C(1)F	MARP(1)PD917S
M55302/59C(1)H	MARP(1)PD917K6
M55302/59C(1)S	MARP(1)PD917KS
M55302/59C(1)X	MARP(1)PD917X
² M55302/59C(1)Y	MARP(1)PD917Y
³ M55302/59C(1)Y-0	MARP(1)PD917Y-0
⁴ M55302/59C(1)Y-+	MARP(1)PD917Y-+

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/60-A(1)F	LMAR(1)SCS	LCMAR(1)SCS
M55302/60-A(1)H	LMAR(1)SCK6	LCMAR(1)SCK6
M55302/60-A(1)S	LMAR(1)SCKS	LCMAR(1)SCKS
M55302/60-A(1)X	LMAR(1)SCX	LCMAR(1)SCX
² M55302/60-A(1)Y	LMAR(1)SCY	LCMAR(1)SCY
³ M55302/60-A(1)Y-0	LMAR(1)SCY-0	LCMAR(1)SCY-0
⁴ M55302/60-A(1)Y-+	LMAR(1)SCY-+	LCMAR(1)SCY-+
M55302/60-B(1)F	LMAR(1)SD14S	LCMAR(1)SD14S
M55302/60-B(1)H	LMAR(1)SD14K6	LCMAR(1)SD14K6
M55302/60-B(1)S	LMAR(1)SD14KS	LCMAR(1)SD14KS
M55302/60-B(1)X	LMAR(1)SD14X	LCMAR(1)SD14X
² M55302/60-B(1)Y	LMAR(1)SD14Y	LCMAR(1)SD14Y
³ M55302/60-B(1)Y-0	LMAR(1)SD14Y-0	LCMAR(1)SD14Y-0
⁴ M55302/60-B(1)Y-+	LMAR(1)SD14Y-+	LCMAR(1)SD14Y-+
M55302/60-C(1)F	LMAR(1)SD17S	LCMAR(1)SD17S
M55302/60-C(1)H	LMAR(1)SD17K6	LCMAR(1)SD17K6
M55302/60-C(1)S	LMAR(1)SD17KS	LCMAR(1)SD17KS
M55302/60-C(1)X	LMAR(1)SD17X	LCMAR(1)SD17X
² M55302/60-C(1)Y	LMAR(1)SD17Y	LCMAR(1)SD17Y
³ M55302/60-C(1)Y-0	LMAR(1)SD17Y-0	LCMAR(1)SD17Y-0
⁴ M55302/60-C(1)Y-+	LMAR(1)SD17Y-+	LCMAR(1)SD17Y-+
M55302/60-D(1)F		LCMAR(1)SWS
M55302/60-D(1)H		LCMAR(1)SWK6
M55302/60-D(1)S		LCMAR(1)SWKS
M55302/60-D(1)X		LCMAR(1)SWX
² M55302/60-D(1)Y		LCMAR(1)SWY
³ M55302/60-D(1)Y-0		LCMAR(1)SWY-0
⁴ M55302/60-D(1)Y-+		LCMAR(1)SWY-+
M55302/60-E(1)F	LMAR(1)SD23S	LCMAR(1)SD23S
M55302/60-E(1)H	LMAR(1)SD23K6	LCMAR(1)SD23K6
M55302/60-E(1)S	LMAR(1)SD23KS	LCMAR(1)SD23KS
M55302/60-E(1)X	LMAR(1)SD23X	LCMAR(1)SD23X
² M55302/60-E(1)Y	LMAR(1)SD23Y	LCMAR(1)SD23Y
³ M55302/60-E(1)Y-0	LMAR(1)SD23Y-0	LCMAR(1)SD23Y-0
⁴ M55302/60-E(1)Y-+	LMAR(1)SD23Y-+	LCMAR(1)SD23Y-+

Low insertion force sockets

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/60LA(1)F	LMAR(1)SCS	LCMAR(1)SCS
M55302/60LA(1)H	LMAR(1)SCK6	LCMAR(1)SCK6
M55302/60LA(1)S	LMAR(1)SCKS	LCMAR(1)SCKS
M55302/60LA(1)X	LMAR(1)SCX	LCMAR(1)SCX
² M55302/60LA(1)Y	LMAR(1)SCY	LCMAR(1)SCY
³ M55302/60LA(1)Y-0	LMAR(1)SCY-0	LCMAR(1)SCY-0
⁴ M55302/60LA(1)Y-+	LMAR(1)SCY-+	LCMAR(1)SCY-+
M55302/60LB(1)F	LMAR(1)SD14S	LCMAR(1)SD14S
M55302/60LB(1)H	LMAR(1)SD14K6	LCMAR(1)SD14K6
M55302/60LB(1)S	LMAR(1)SD14KS	LCMAR(1)SD14KS
M55302/60LB(1)X	LMAR(1)SD14X	LCMAR(1)SD14X
² M55302/60LB(1)Y	LMAR(1)SD14Y	LCMAR(1)SD14Y
³ M55302/60LB(1)Y-0	LMAR(1)SD14Y-0	LCMAR(1)SD14Y-0
⁴ M55302/60LB(1)Y-+	LMAR(1)SD14Y-+	LCMAR(1)SD14Y-+
M55302/60LC(1)F	LMAR(1)SD17S	LCMAR(1)SD17S
M55302/60LC(1)H	LMAR(1)SD17K6	LCMAR(1)SD17K6
M55302/60LC(1)S	LMAR(1)SD17KS	LCMAR(1)SD17KS
M55302/60LC(1)X	LMAR(1)SD17X	LCMAR(1)SD17X
² M55302/60LC(1)Y	LMAR(1)SD17Y	LCMAR(1)SD17Y
³ M55302/60LC(1)Y-0	LMAR(1)SD17Y-0	LCMAR(1)SD17Y-0
⁴ M55302/60LC(1)Y-+	LMAR(1)SD17Y-+	LCMAR(1)SD17Y-+
M55302/60LD(1)F		LCMAR(1)SWS
M55302/60LD(1)H		LCMAR(1)SWK6
M55302/60LD(1)S		LCMAR(1)SWKS
M55302/60LD(1)X		LCMAR(1)SWX
² M55302/60LD(1)Y		LCMAR(1)SWY
³ M55302/60LD(1)Y-0		LCMAR(1)SWY-0
⁴ M55302/60LD(1)Y-+		LCMAR(1)SWY-+
M55302/60LE(1)F	LMAR(1)SD23S	LCMAR(1)SD23S
M55302/60LE(1)H	LMAR(1)SD23K6	LCMAR(1)SD23K6
M55302/60LE(1)S	LMAR(1)SD23KS	LCMAR(1)SD23KS
M55302/60LE(1)X	LMAR(1)SD23X	LCMAR(1)SD23X
² M55302/60LE(1)Y	LMAR(1)SD23Y	LCMAR(1)SD23Y
³ M55302/60LE(1)Y-0	LMAR(1)SD23Y-0	LCMAR(1)SD23Y-0
⁴ M55302/60LE(1)Y-+	LMAR(1)SD23Y-+	LCMAR(1)SD23Y-+

¹ Number of contacts: 90, 100, 120

² Polarizing guides in the "-1" position

³ Polarizing guides in the "-1" position, without Loctite

⁴ Polarizing guides in the "-2" through "-64" positions. Add position number in place of "+" (Position "-1" is otherwise supplied)

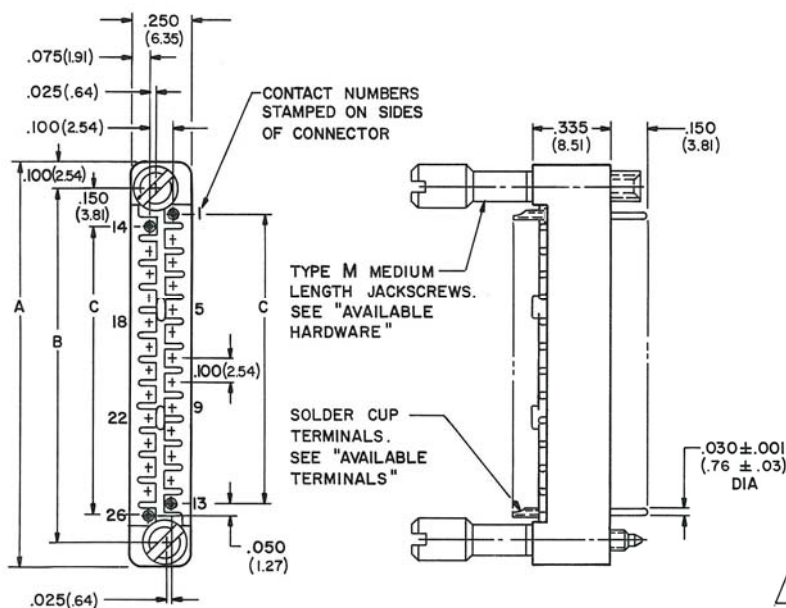
MR

MIL-C-55302/62,/63,/64

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

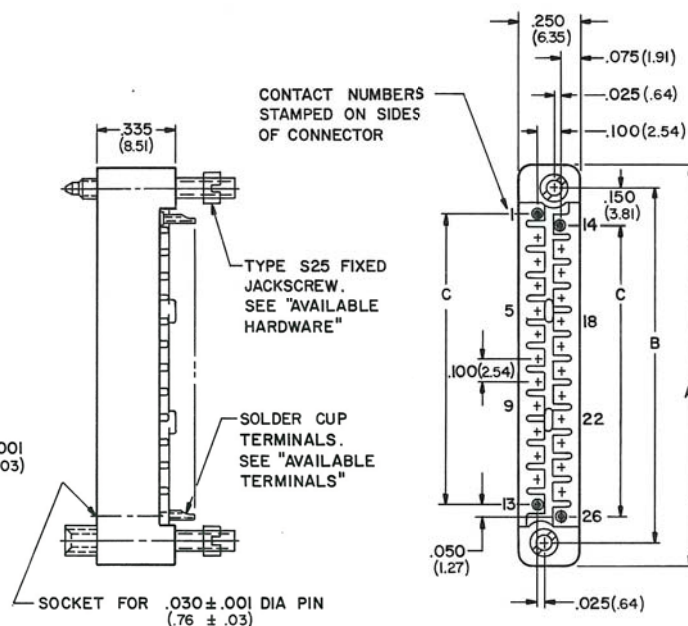
.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
10, 14, 20, 24, 26, 30, 36, 40, 44,
50, 54, 56, 60, 66, 70, 78 CONTACTS

MIL-C-55302/63



Straight-Thru Pins
MR(1)P(2)(3)

MIL-C-55302/62,/64



Straight-Thru Sockets
MR(1)S(2)(3)

¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70, 78

² Terminals: C, D14, D17, D23, FD, FD10, W

³ Hardware: KL, KM, KS, K6, S25, X25, Y25-+

Options: Beryllium copper contacts, low force sockets, closed entry sockets, polyphenylene sulfide plastic bodies, alternate polarization, and as required by customer.

TERMINALS: Same as on page 10

HARDWARE: Same as on page 10

SPECIFICATIONS: Refer to page 27

NO. OF CONTACTS	DIMENSIONS		
	A	B	C
10	.850 (21.59)	.650 (16.51)	.400 (10.16)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)
40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)
44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)
50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
78	4.250 (107.95)	4.050 (102.87)	3.800 (96.52)

CROSS-REFERENCE

MIL P/N

CCC P/N

CCC P/N

(Closed entry)

M55302/62-A(1)H	MR(1)SCK6	CMR(1)SCK6
M55302/62-A(1)L	MR(1)SCKL	CMR(1)SCKL
M55302/62-A(1)M	MR(1)SCKM	CMR(1)SCKM
M55302/62-A(1)S	MR(1)SCKS	CMR(1)SCKS
M55302/62-B(1)H	MR(1)SD14K6	CMR(1)SD14K6
M55302/62-B(1)L	MR(1)SD14KL	CMR(1)SD14KL
M55302/62-B(1)M	MR(1)SD14KM	CMR(1)SD14KM
M55302/62-B(1)S	MR(1)SD14KS	CMR(1)SD14KS
M55302/62-C(1)H	MR(1)SD17K6	CMR(1)SD17K6
M55302/62-C(1)L	MR(1)SD17KL	CMR(1)SD17KL
M55302/62-C(1)M	MR(1)SD17KM	CMR(1)SD17KM
M55302/62-C(1)S	MR(1)SD17KS	CMR(1)SD17KS
M55302/62-D(1)H	MR(1)SFDK6	CMR(1)SFDK6
M55302/62-D(1)L	MR(1)SFDKL	CMR(1)SFDKL
M55302/62-D(1)M	MR(1)SFDKM	CMR(1)SFDKM
M55302/62-D(1)S	MR(1)SFDKS	CMR(1)SFDKS
M55302/62-E(1)H	MR(1)SD23K6	CMR(1)SD23K6
M55302/62-E(1)L	MR(1)SD23KL	CMR(1)SD23KL
M55302/62-E(1)M	MR(1)SD23KM	CMR(1)SD23KM
M55302/62-E(1)S	MR(1)SD23KS	CMR(1)SD23KS
M55302/62-F(1)H	MR(1)SFD10K6	CMR(1)SFD10K6
M55302/62-F(1)L	MR(1)SFD10KL	CMR(1)SFD10KL
M55302/62-F(1)M	MR(1)SFD10KM	CMR(1)SFD10KM
M55302/62-F(1)S	MR(1)SFD10KS	CMR(1)SFD10KS

CROSS-REFERENCE

MIL P/N	Low insertion force CCC P/N	CCC P/N (Closed entry)
M55302/62LA ⁽¹⁾ H	LMR ⁽¹⁾ SCK6	LCMR ⁽¹⁾ SCK6
M55302/62LA ⁽¹⁾ L	LMR ⁽¹⁾ SCKL	LCMR ⁽¹⁾ SCKL
M55302/62LA ⁽¹⁾ M	LMR ⁽¹⁾ SCKM	LCMR ⁽¹⁾ SCKM
M55302/62LA ⁽¹⁾ S	LMR ⁽¹⁾ SCKS	LCMR ⁽¹⁾ SCKS
M55302/62LB ⁽¹⁾ H	LMR ⁽¹⁾ SD14K6	LCMR ⁽¹⁾ SD14K6
M55302/62LB ⁽¹⁾ L	LMR ⁽¹⁾ SD14KL	LCMR ⁽¹⁾ SD14KL
M55302/62LB ⁽¹⁾ M	LMR ⁽¹⁾ SD14KM	LCMR ⁽¹⁾ SD14KM
M55302/62LB ⁽¹⁾ S	LMR ⁽¹⁾ SD14KS	LCMR ⁽¹⁾ SD14KS
M55302/62LC ⁽¹⁾ H	LMR ⁽¹⁾ SD17K6	LCMR ⁽¹⁾ SD17K6
M55302/62LC ⁽¹⁾ L	LMR ⁽¹⁾ SD17KL	LCMR ⁽¹⁾ SD17KL
M55302/62LC ⁽¹⁾ M	LMR ⁽¹⁾ SD17KM	LCMR ⁽¹⁾ SD17KM
M55302/62LC ⁽¹⁾ S	LMR ⁽¹⁾ SD17KS	LCMR ⁽¹⁾ SD17KS
M55302/62LD ⁽¹⁾ H	LMR ⁽¹⁾ SFDK6	LCMR ⁽¹⁾ SFDK6
M55302/62LD ⁽¹⁾ L	LMR ⁽¹⁾ SFDKL	LCMR ⁽¹⁾ SFDKL
M55302/62LD ⁽¹⁾ M	LMR ⁽¹⁾ SFDKM	LCMR ⁽¹⁾ SFDKM
M55302/62LD ⁽¹⁾ S	LMR ⁽¹⁾ SFDKS	LCMR ⁽¹⁾ SFDKS
M55302/62LE ⁽¹⁾ H	LMR ⁽¹⁾ SD23K6	LCMR ⁽¹⁾ SD23K6
M55302/62LE ⁽¹⁾ L	LMR ⁽¹⁾ SD23KL	LCMR ⁽¹⁾ SD23KL
M55302/62LE ⁽¹⁾ M	LMR ⁽¹⁾ SD23KM	LCMR ⁽¹⁾ SD23KM
M55302/62LE ⁽¹⁾ S	LMR ⁽¹⁾ SD23KS	LCMR ⁽¹⁾ SD23KS
M55302/62LF ⁽¹⁾ H	LMR ⁽¹⁾ SFD10K6	LCMR ⁽¹⁾ SFD10K6
M55302/62LF ⁽¹⁾ L	LMR ⁽¹⁾ SFD10KL	LCMR ⁽¹⁾ SFD10KL
M55302/62LF ⁽¹⁾ M	LMR ⁽¹⁾ SFD10KM	LCMR ⁽¹⁾ SFD10KM
M55302/62LF ⁽¹⁾ S	LMR ⁽¹⁾ SFD10KS	LCMR ⁽¹⁾ SFD10KS

MIL P/N	CCC P/N	CCC P/N (Closed entry)
M55302/63A ⁽¹⁾ F	MR ⁽¹⁾ PCS25	LCMR ⁽¹⁾ SCS25
M55302/63A ⁽¹⁾ H	MR ⁽¹⁾ PCK6	LCMR ⁽¹⁾ SCX25
M55302/63A ⁽¹⁾ L	MR ⁽¹⁾ PCKL	LCMR ⁽¹⁾ SCY25
M55302/63A ⁽¹⁾ M	MR ⁽¹⁾ PCKM	LCMR ⁽¹⁾ SCY25-0
M55302/63A ⁽¹⁾ S	MR ⁽¹⁾ PCKS	LCMR ⁽¹⁾ SCY25-+
M55302/63A ⁽¹⁾ X	MR ⁽¹⁾ PCX25	LCMR ⁽¹⁾ SD14S25
² M55302/63A ⁽¹⁾ Y	MR ⁽¹⁾ PCY25	LCMR ⁽¹⁾ SD14X25
³ M55302/63A ⁽¹⁾ Y-0	MR ⁽¹⁾ PCY25-0	LCMR ⁽¹⁾ SD14Y25
⁴ M55302/63A ⁽¹⁾ Y-+	MR ⁽¹⁾ PCY25-+	LCMR ⁽¹⁾ SD14Y25-0
M55302/63B ⁽¹⁾ F	MR ⁽¹⁾ PD14S25	LCMR ⁽¹⁾ SD14Y25-+
M55302/63B ⁽¹⁾ H	MR ⁽¹⁾ PD14K6	LCMR ⁽¹⁾ SD17S25
M55302/63B ⁽¹⁾ L	MR ⁽¹⁾ PD14KL	LCMR ⁽¹⁾ SD17X25
M55302/63B ⁽¹⁾ M	MR ⁽¹⁾ PD14KM	LCMR ⁽¹⁾ SD17Y25
M55302/63B ⁽¹⁾ S	MR ⁽¹⁾ PD14KS	LCMR ⁽¹⁾ SD17Y25-0
M55302/63B ⁽¹⁾ X	MR ⁽¹⁾ PD14X25	LCMR ⁽¹⁾ SD17Y25-+
² M55302/63B ⁽¹⁾ Y	MR ⁽¹⁾ PD14Y25	LCMR ⁽¹⁾ SWS25
³ M55302/63B ⁽¹⁾ Y-0	MR ⁽¹⁾ PD14Y25-0	LCMR ⁽¹⁾ SWX25
⁴ M55302/63B ⁽¹⁾ Y-+	MR ⁽¹⁾ PD14Y25-+	LCMR ⁽¹⁾ SWY25
M55302/63C ⁽¹⁾ F	MR ⁽¹⁾ PD17S25	LCMR ⁽¹⁾ SWY25-0
M55302/63C ⁽¹⁾ H	MR ⁽¹⁾ PD17K6	LCMR ⁽¹⁾ SWY25-+
M55302/63C ⁽¹⁾ L	MR ⁽¹⁾ PD17KL	LCMR ⁽¹⁾ SFDS25
M55302/63C ⁽¹⁾ M	MR ⁽¹⁾ PD17KM	LCMR ⁽¹⁾ SFDS25
M55302/63C ⁽¹⁾ S	MR ⁽¹⁾ PD17KS	LCMR ⁽¹⁾ SFDS25
M55302/63C ⁽¹⁾ X	MR ⁽¹⁾ PD17X25	LCMR ⁽¹⁾ SFDS25
² M55302/63C ⁽¹⁾ Y	MR ⁽¹⁾ PD17Y25	LCMR ⁽¹⁾ SFDS25
³ M55302/63C ⁽¹⁾ Y-0	MR ⁽¹⁾ PD17Y25-0	LCMR ⁽¹⁾ SFDS25
⁴ M55302/63C ⁽¹⁾ Y-+	MR ⁽¹⁾ PD17Y25-+	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ F	MR ⁽¹⁾ PFDS25	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ H	MR ⁽¹⁾ PFDK6	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ L	MR ⁽¹⁾ PFDKL	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ M	MR ⁽¹⁾ PFDKM	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ S	MR ⁽¹⁾ PFDKS	LCMR ⁽¹⁾ SFDS25
M55302/63D ⁽¹⁾ X	MR ⁽¹⁾ PFDX25	LCMR ⁽¹⁾ SFDS25
² M55302/63D ⁽¹⁾ Y	MR ⁽¹⁾ PFDY25	LCMR ⁽¹⁾ SFDS25
³ M55302/63D ⁽¹⁾ Y-0	MR ⁽¹⁾ PFDY25-0	LCMR ⁽¹⁾ SFDS25
⁴ M55302/63D ⁽¹⁾ Y-+	MR ⁽¹⁾ PFDY25-+	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ F	MR ⁽¹⁾ PF10S25	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ H	MR ⁽¹⁾ PF10K6	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ L	MR ⁽¹⁾ PF10KL	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ M	MR ⁽¹⁾ PF10KM	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ S	MR ⁽¹⁾ PF10KS	LCMR ⁽¹⁾ SFDS25
M55302/63E ⁽¹⁾ X	MR ⁽¹⁾ PF10X25	LCMR ⁽¹⁾ SFDS25
² M55302/63E ⁽¹⁾ Y	MR ⁽¹⁾ PF10Y25	LCMR ⁽¹⁾ SFDS25
³ M55302/63E ⁽¹⁾ Y-0	MR ⁽¹⁾ PF10Y25-0	LCMR ⁽¹⁾ SFDS25
⁴ M55302/63E ⁽¹⁾ Y-+	MR ⁽¹⁾ PF10Y25-+	LCMR ⁽¹⁾ SFDS25

MIL P/N

CCC P/N

CCC P/N

(Closed entry)

M55302/64-A ⁽¹⁾ F	MR ⁽¹⁾ SCS25	CMR ⁽¹⁾ SCS25
M55302/64-A ⁽¹⁾ X	MR ⁽¹⁾ SCX25	CMR ⁽¹⁾ SCX25
² M55302/64-A ⁽¹⁾ Y	MR ⁽¹⁾ SCY25	CMR ⁽¹⁾ SCY25
³ M55302/64-A ⁽¹⁾ Y-0	MR ⁽¹⁾ SCY25-0	CMR ⁽¹⁾ SCY25-0
⁴ M55302/64-A ⁽¹⁾ Y-+	MR ⁽¹⁾ SCY25-+	CMR ⁽¹⁾ SCY25-+
M55302/64-B ⁽¹⁾ F	MR ⁽¹⁾ SD14S25	CMR ⁽¹⁾ SD14S25
M55302/64-B ⁽¹⁾ X	MR ⁽¹⁾ SD14X25	CMR ⁽¹⁾ SD14X25
² M55302/64-B ⁽¹⁾ Y	MR ⁽¹⁾ SD14Y25	CMR ⁽¹⁾ SD14Y25
³ M55302/64-B ⁽¹⁾ Y-0	MR ⁽¹⁾ SD14Y25-0	CMR ⁽¹⁾ SD14Y25-0
⁴ M55302/64-B ⁽¹⁾ Y-+	MR ⁽¹⁾ SD14Y25-+	CMR ⁽¹⁾ SD14Y25-+
M55302/64-C ⁽¹⁾ F	MR ⁽¹⁾ SD17S25	CMR ⁽¹⁾ SD17S25
M55302/64-C ⁽¹⁾ X	MR ⁽¹⁾ SD17X25	CMR ⁽¹⁾ SD17X25
² M55302/64-C ⁽¹⁾ Y	MR ⁽¹⁾ SD17Y25	CMR ⁽¹⁾ SD17Y25
³ M55302/64-C ⁽¹⁾ Y-0	MR ⁽¹⁾ SD17Y25-0	CMR ⁽¹⁾ SD17Y25-0
⁴ M55302/64-C ⁽¹⁾ Y-+	MR ⁽¹⁾ SD17Y25-+	CMR ⁽¹⁾ SD17Y25-+
M55302/64-D ⁽¹⁾ F	MR ⁽¹⁾ SWS25	CMR ⁽¹⁾ SWS25
M55302/64-D ⁽¹⁾ X	MR ⁽¹⁾ SWX25	CMR ⁽¹⁾ SWX25
² M55302/64-D ⁽¹⁾ Y	MR ⁽¹⁾ SWY25	CMR ⁽¹⁾ SWY25
³ M55302/64-D ⁽¹⁾ Y-0	MR ⁽¹⁾ SWY25-0	CMR ⁽¹⁾ SWY25-0
⁴ M55302/64-D ⁽¹⁾ Y-+	MR ⁽¹⁾ SWY25-+	CMR ⁽¹⁾ SWY25-+
M55302/64-E ⁽¹⁾ F	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
M55302/64-E ⁽¹⁾ X	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
² M55302/64-E ⁽¹⁾ Y	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
³ M55302/64-E ⁽¹⁾ Y-0	MR ⁽¹⁾ SFDS25-0	CMR ⁽¹⁾ SFDS25-0
⁴ M55302/64-E ⁽¹⁾ Y-+	MR ⁽¹⁾ SFDS25-+	CMR ⁽¹⁾ SFDS25-+
M55302/64-F ⁽¹⁾ F	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
M55302/64-F ⁽¹⁾ X	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
² M55302/64-F ⁽¹⁾ Y	MR ⁽¹⁾ SFDS25	CMR ⁽¹⁾ SFDS25
³ M55302/64-F ⁽¹⁾ Y-0	MR ⁽¹⁾ SFDS25-0	CMR ⁽¹⁾ SFDS25-0
⁴ M55302/64-F ⁽¹⁾ Y-+	MR ⁽¹⁾ SFDS25-+	CMR ⁽¹⁾ SFDS25-+

Low insertion force sockets

MIL P/N

CCC P/N

CCC P/N

(Closed entry)

M55302/64LA ⁽¹⁾ F	LMR ⁽¹⁾ SCS25	LCMR ⁽¹⁾ SCS25
M55302/64LA ⁽¹⁾ X	LMR ⁽¹⁾ SCX25	LCMR ⁽¹⁾ SCX25
² M55302/64LA ⁽¹⁾ Y	LMR ⁽¹⁾ SCY25	LCMR ⁽¹⁾ SCY25
³ M55302/64LA ⁽¹⁾ Y-0	LMR ⁽¹⁾ SCY25-0	LCMR ⁽¹⁾ SCY25-0
⁴ M55302/64LA ⁽¹⁾ Y-+	LMR ⁽¹⁾ SCY25-+	LCMR ⁽¹⁾ SCY25-+
M55302/64LB ⁽¹⁾ F	LMR ⁽¹⁾ SD14S25	LCMR ⁽¹⁾ SD14S25
M55302/64LB ⁽¹⁾ X	LMR ⁽¹⁾ SD14X25	LCMR ⁽¹⁾ SD14X25
² M55302/64LB ⁽¹⁾ Y	LMR ⁽¹⁾ SD14Y25	LCMR ⁽¹⁾ SD14Y25
³ M55302/64LB ⁽¹⁾ Y-0	LMR ⁽¹⁾ SD14Y25-0	LCMR ⁽¹⁾ SD14Y25-0
⁴ M55302/64LB ⁽¹⁾ Y-+	LMR ⁽¹⁾ SD14Y25-+	LCMR ⁽¹⁾ SD14Y25-+
M55302/64LC ⁽¹⁾ F	LMR ⁽¹⁾ SD17S25	LCMR ⁽¹⁾ SD17S25
M55302/64LC ⁽¹⁾ X	LMR ⁽¹⁾ SD17X25	LCMR ⁽¹⁾ SD17X25
² M55302/64LC ⁽¹⁾ Y	LMR ⁽¹⁾ SD17Y25	LCMR ⁽¹⁾ SD17Y25
³ M55302/64LC ⁽¹⁾ Y-0	LMR ⁽¹⁾ SD17Y25-0	LCMR ⁽¹⁾ SD17Y25-0
⁴ M55302/64LC ⁽¹⁾ Y-+	LMR ⁽¹⁾ SD17Y25-+	LCMR ⁽¹⁾ SD17Y25-+
M55302/64LD ⁽¹⁾ F	LMR ⁽¹⁾ SWS25	LCMR ⁽¹⁾ SWS25
M55302/64LD ⁽¹⁾ X	LMR ⁽¹⁾ SWX25	LCMR ⁽¹⁾ SWX25
² M55302/64LD ⁽¹⁾ Y	LMR ⁽¹⁾ SWY25	LCMR ⁽¹⁾ SWY25
³ M55302/64LD ⁽¹⁾ Y-0	LMR ⁽¹⁾ SWY25-0	LCMR ⁽¹⁾ SWY25-0
⁴ M55302/64LD ⁽¹⁾ Y-+	LMR ⁽¹⁾ SWY25-+	LCMR ⁽¹⁾ SWY25-+
M55302/64LE ⁽¹⁾ F	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
M55302/64LE ⁽¹⁾ X	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
² M55302/64LE ⁽¹⁾ Y	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
³ M55302/64LE ⁽¹⁾ Y-0	LMR ⁽¹⁾ SFDS25-0	LCMR ⁽¹⁾ SFDS25-0
⁴ M55302/64LE ⁽¹⁾ Y-+	LMR ⁽¹⁾ SFDS25-+	LCMR ⁽¹⁾ SFDS25-+
M55302/64LF ⁽¹⁾ F	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
M55302/64LF ⁽¹⁾ X	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
² M55302/64LF ⁽¹⁾ Y	LMR ⁽¹⁾ SFDS25	LCMR ⁽¹⁾ SFDS25
³ M55302/64LF ⁽¹⁾ Y-0	LMR ⁽¹⁾ SFDS25-0	LCMR ⁽¹⁾ SFDS25-0
⁴ M55302/64LF ⁽¹⁾ Y-+	LMR ⁽¹⁾ SFDS25-+	LCMR ⁽¹⁾ SFDS25-+

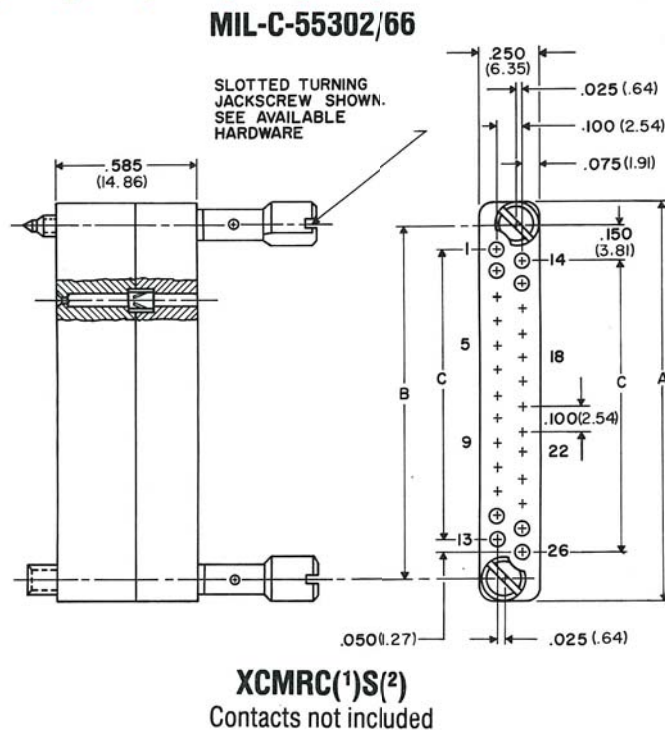
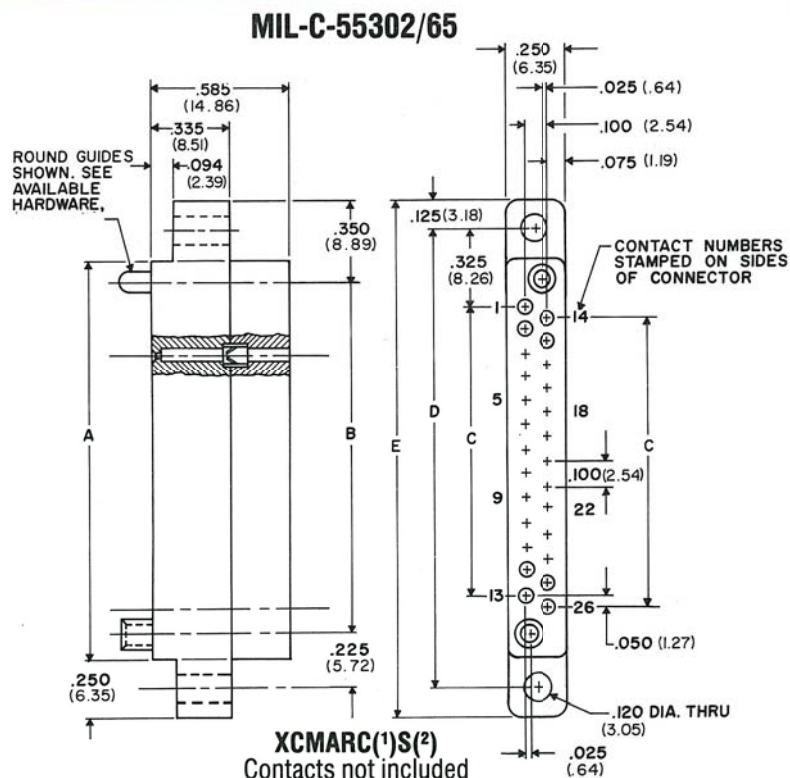
¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70² Polarizing guides in the "-1" position³ Polarizing guides in the "-1" position, without Loctite⁴ Polarizing guides in the "-2" through "-64" positions. Add position number in place of "+" (Position "-1" is otherwise supplied)

XCMARC, XCMRC

MIL-C-55302/65, /66

REMOVABLE CONTACTS, CRIMP TERMINATIONS

.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
10, 14, 20, 24, 26, 30, 36, 40, 44,
50, 54, 56, 60, 66, 70, CONTACTS



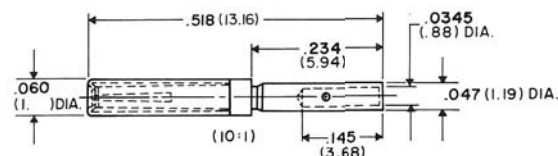
¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70
² Hardware: KL, KM, KS, K6, S, X, Y-+

NO. OF CONTACTS	DIMENSIONS				
	A	B	C	D	E
10	.850 (21.59)	.650 (16.51)	.400 (10.16)	1.100 (27.94)	1.350 (34.29)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)	1.300 (33.02)	1.550 (39.37)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)	1.800 (40.64)	1.850 (46.99)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.900 (45.72)	2.050 (52.07)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

MATING CONNECTORS

Series XCMARC and XCMRC socket connectors mate with series MARP and MR pin connectors (refer to pages 12 and 16).

CRIMP REMOVABLE SOCKET
 Accommodates No. 22, 24 and 26 AWG wire

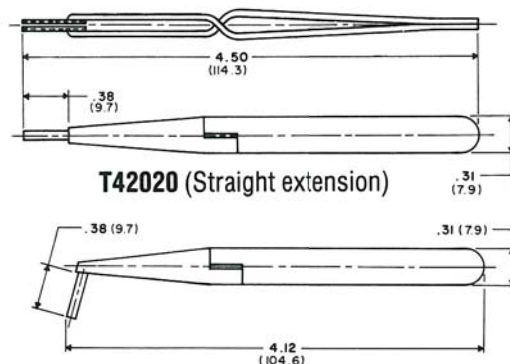


Low force (standard): XLIM-S2A22 (M55302/65-02)
Alternate force: XM-S2A22 (M55302/65-01)

Socket contacts are also available in plastic carriers on reels holding 2000 contacts for use with the Automatic Contact Feed Pneumatic Crimping Tool.

INSTALLING & REMOVAL TOOLS

For rear contact insertion and removal

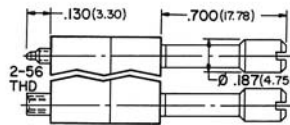


T42020 (Straight extension)

T42021 (Angle extension)

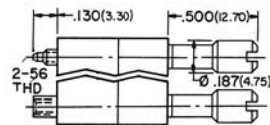
SPECIFICATIONS: Refer to page 27

HARDWARE



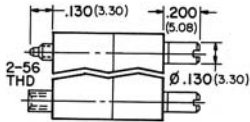
KL

Long Turning Slotted Screwlocks



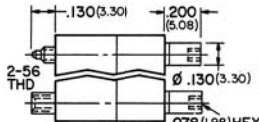
KM

Medium Turning Slotted Screwlocks



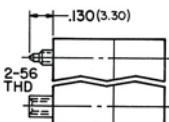
KS

Short Turning Slotted Screwlocks



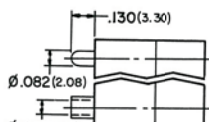
K6

Short Turning Hex. Screwlocks



S

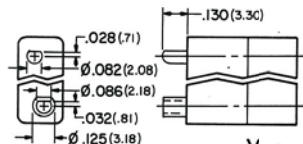
Fixed Screwlocks



X

Full Round Guides

Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

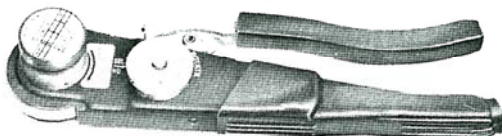


Y-+

Adjustable Polarizing D-Shaped Guides

HAND CRIMPING TOOL

Features an octadent crimp, full open and close cycle control, positioner operation with 8-step adjustable crimp positions. Data plate on positioner defines the correct crimp depth setting for the wire size used.

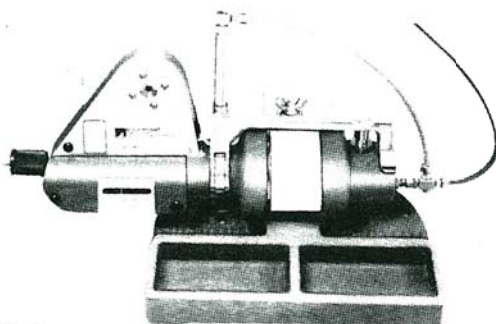


615717 Tool Frame (M22520/2-01)

615722 Positioner (M22520/2-06)

MANUAL FEED PNEUMATIC CRIMPING TOOL

For portable or bench mount applications



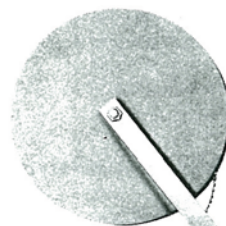
612768 Tool

612507 Locator

11380-3 Bench Mount, Foot Pedal, Wells for Holding Contacts



620472 Tool,
Portable



62042 Tool

11151 Bench Mount

11414 Foot Pedal



614529 Carrier

CROSS-REFERENCE

MIL P/N

M55302/65-(¹)F
M55302/65-(²)H
M55302/65-(³)S
M55302/65-(⁴)X
M55302/65-(⁵)Y
M55302/65-(⁶)Y-0
M55302/65-(⁷)Y-+

CCC P/N

(Closed entry)

XCMARC(¹)SS-A22
XCMARC(²)SK6-A22
XCMARC(³)SKS-A22
XCMARC(⁴)SX-A22
XCMARC(⁵)SY-A22
XCMARC(⁶)SY-0-A22
XCMARC(⁷)SY-+-A22

Low insertion force sockets

M55302/65L(¹)F
M55302/65L(²)H
M55302/65L(³)S
M55302/65L(⁴)X
M55302/65L(⁵)Y
M55302/65L(⁶)Y-0
M55302/65L(⁷)Y-+

XLCMARC(¹)SS-A22
XLCMARC(²)SK6-A22
XLCMARC(³)SKS-A22
XLCMARC(⁴)SX-A22
XLCMARC(⁵)SY-A22
XLCMARC(⁶)SY-0-A22
XLCMARC(⁷)SY-+-A22

MIL P/N

M55302/66-(¹)F
M55302/66-(²)H
M55302/66-(³)L
M55302/66-(⁴)M
M55302/66-(⁵)S

CCC P/N

(Closed entry)

XCMRC(¹)SS-A22
XCMRC(²)SK6-A22
XCMRC(³)SKL-A22
XCMRC(⁴)SKM-A22
XCMRC(⁵)SKS-A22

Low insertion force sockets

M55302/66L(¹)F
M55302/66L(²)H
M55302/66L(³)L
M55302/66L(⁴)M
M55302/66L(⁵)S

XLCMRC(¹)SS-A22
XLCMRC(²)SK6-A22
XLCMRC(³)SKL-A22
XLCMRC(⁴)SKM-A22
XLCMRC(⁵)SKS-A22

Contacts only

MIL P/N

M55302/65-01

CCC P/N

XM-S2A22

M55302/65-02

Low insertion force

XLIM-S2A22

¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

² Polarizing guides in the "-1" position

³ Polarizing guides in the "-1" position, without Loctite

⁴ Polarizing guides in the "-2" through "-64" positions. Add position number in place of "+".
(Position "-1" is otherwise supplied)

AUTOMATIC CONTACT FEED PNEUMATIC CRIMPING TOOL...CYCLE CONTROLLED

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

**3-ROW, HIGH DENSITY
.100" (2.54MM) SPACING
160 CONTACTS**



² Hardware: KS, K6, S, X, Y-+

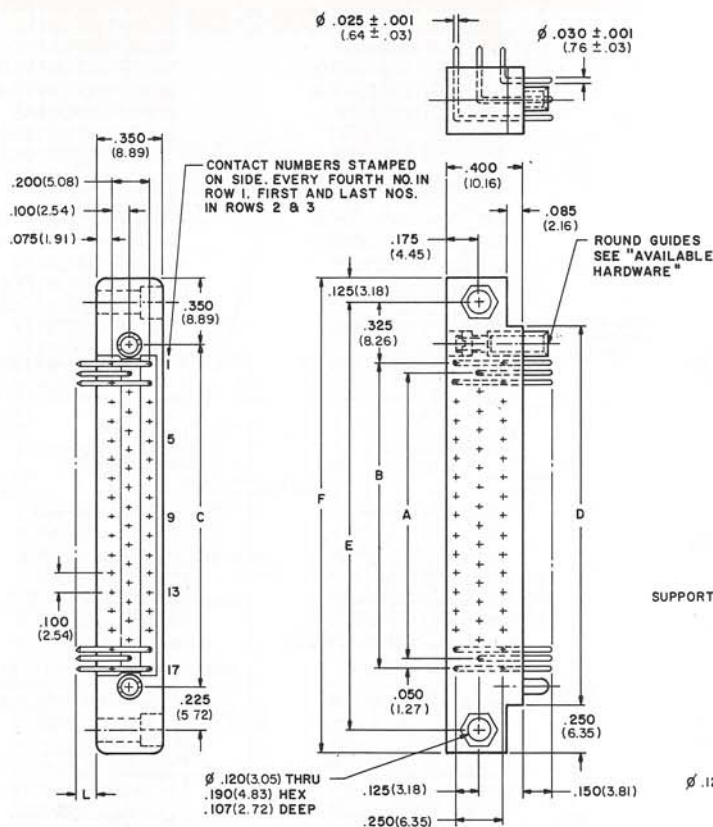
HARDWARE (3MARP & 3MAR): Same as on page 22

SPECIFICATIONS: Refer to page 27

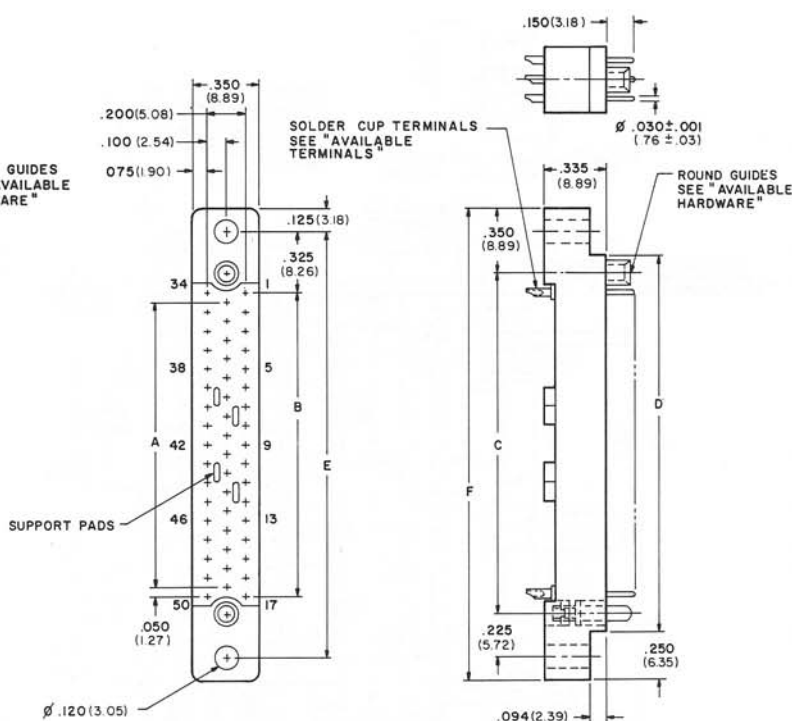
Page 20

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

3-ROW, HIGH DENSITY
.100" (2.54MM) CONTACT SPACING
50,62,80,92,104 CONTACTS



Right-Angle Pins
3MARP⁽¹⁾P⁽²⁾(³)



Straight-Thru Pins
3MAR(1)P(2)(3)

L	ORDERING CODE
.109 (2.77)	D911
.140 (3.56)	D914
.172 (4.37)	D917

¹ Number of contacts: 50.62.80.92.104

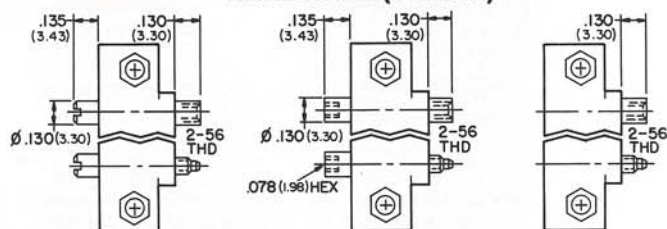
² Terminals: Series 3MARP: D911, D914, D917

Series 3MAR: C, D14, D17, D23, FD, FD10, W

³ Hardware: KS, K6, S, X, Y-+

Options: Beryllium copper contacts, alternate polarization, and as required by customer.

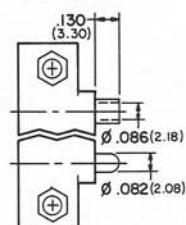
HARDWARE (3MARP)



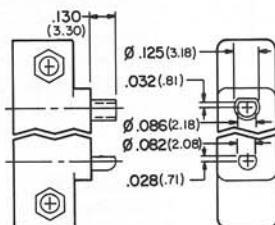
KS
Short Turning
Slotted Screwlocks

K6
Short Turning
Hex. Screwlocks

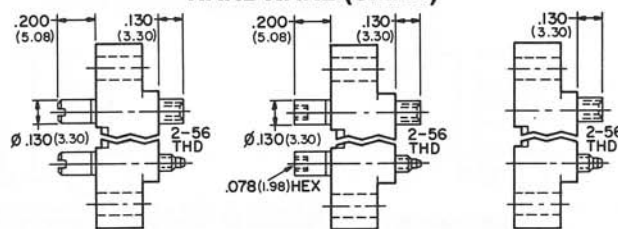
S Fixed Screwlocks



X
Full Round
Guides



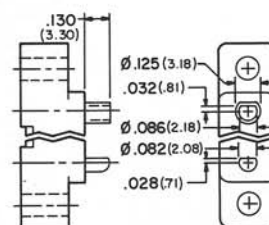
Y- + Adjustable Polarizing D-Shaped Guides



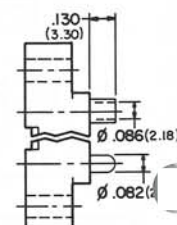
KS Short Turning Slotted Screwlocks

K6
Short Turning
Hex. Screwlocks

S Fixed Screwlocks



Y- + Adjustable Polarizing D-Shaped Guides

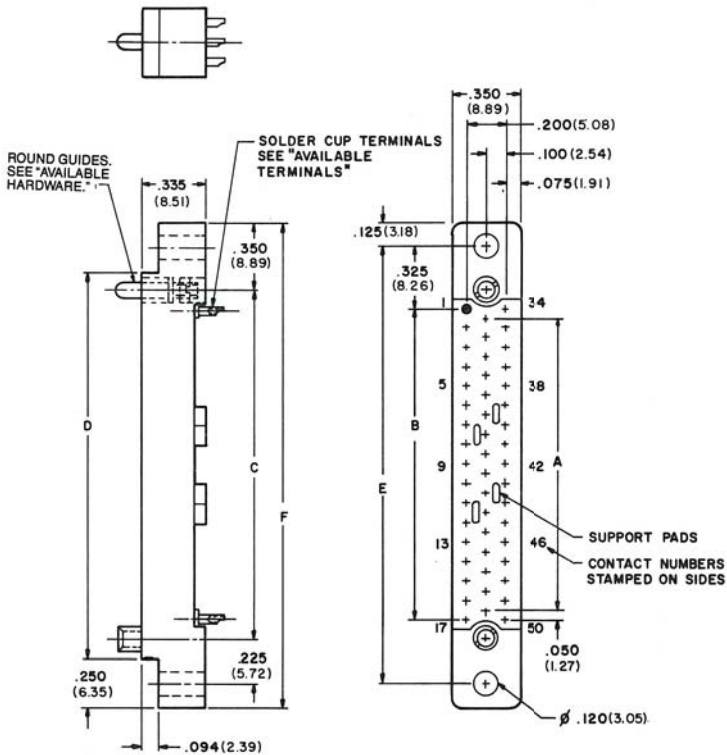


X Full Round Guides

Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

3MARP, 3MAR LC3MAR

TERMINALS (3MAR & LC3MAR)

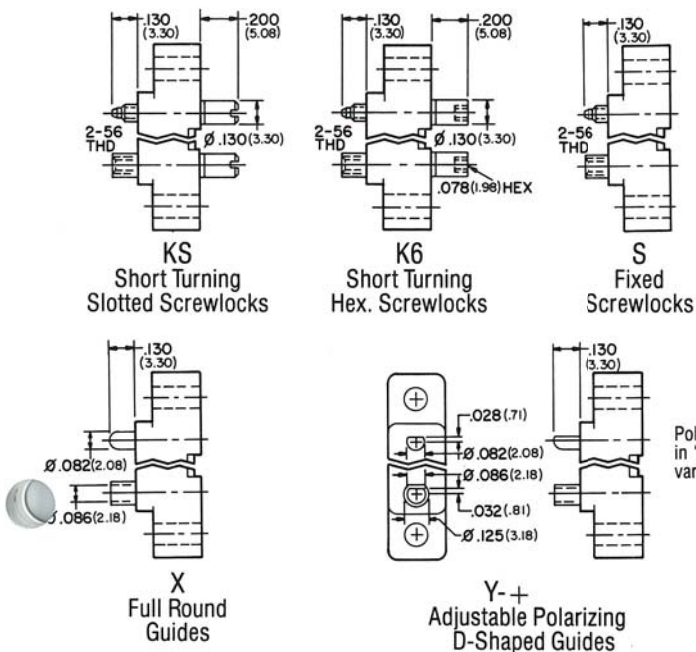


Straight-Thru Sockets
LC3MAR(1)S(2)(3)

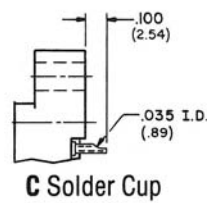
- ¹ Number of contacts: 50, 62, 80, 92, 104
² Terminals: C, D14, D17, D23, FD, FD10, W
³ Hardware: KS, K6, S, X, Y-+

Options: Beryllium copper contacts, alternate polarization, and as required by customer.

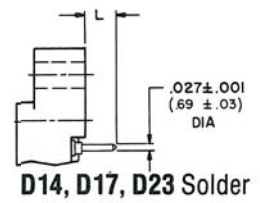
HARDWARE (LC3MAR)



Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

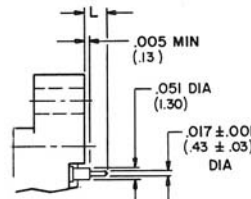


C Solder Cup



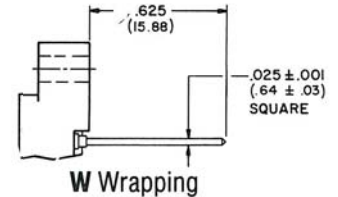
D14, D17, D23 Solder

L	ORDERING CODE
.140 (3.56)	D14
.172 (4.37)	D17
.234 (5.94)	D23



FD, FD10 Flexible Circuit

L	ORDERING CODE
.058 (1.47)	FD
.100 (2.54)	FD10



W Wrapping

NO. OF CONTACTS	DIMENSIONS					
	A	B	C	D	E	F
50	1.500 (38.10)	1.600 (40.64)	1.800 (45.72)	2.000 (50.80)	2.250 (57.15)	2.500 (63.50)
62	1.900 (48.26)	2.000 (50.80)	2.200 (55.88)	2.400 (60.96)	2.650 (67.31)	2.900 (73.66)
80	2.500 (63.50)	2.600 (66.04)	2.800 (71.12)	3.000 (76.20)	3.250 (82.55)	3.500 (88.90)
92	2.900 (73.66)	3.000 (76.20)	3.200 (81.28)	3.400 (86.36)	3.650 (92.71)	3.900 (99.06)
104	3.300 (83.82)	3.400 (86.36)	3.600 (91.44)	3.800 (96.52)	4.050 (102.87)	4.300 (109.22)



LC3MAR62SCS-R



3MAR62PD17K6-R

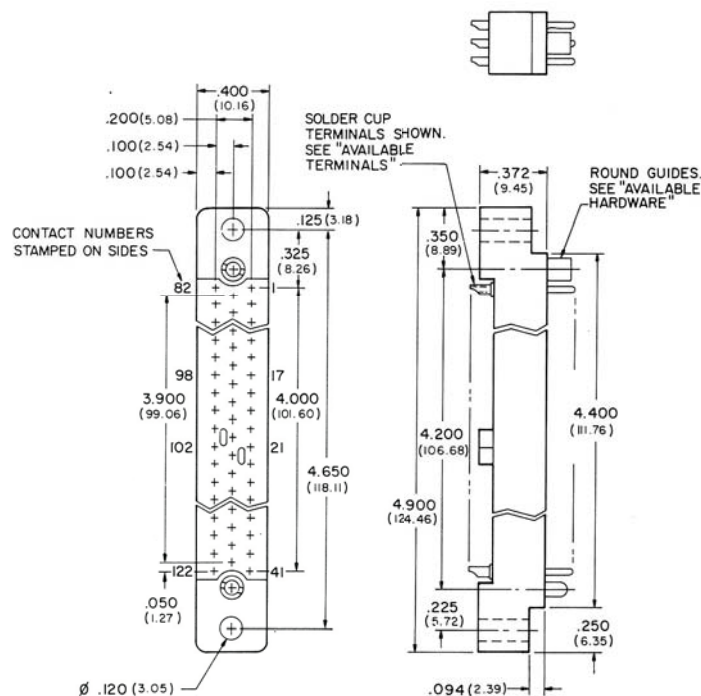
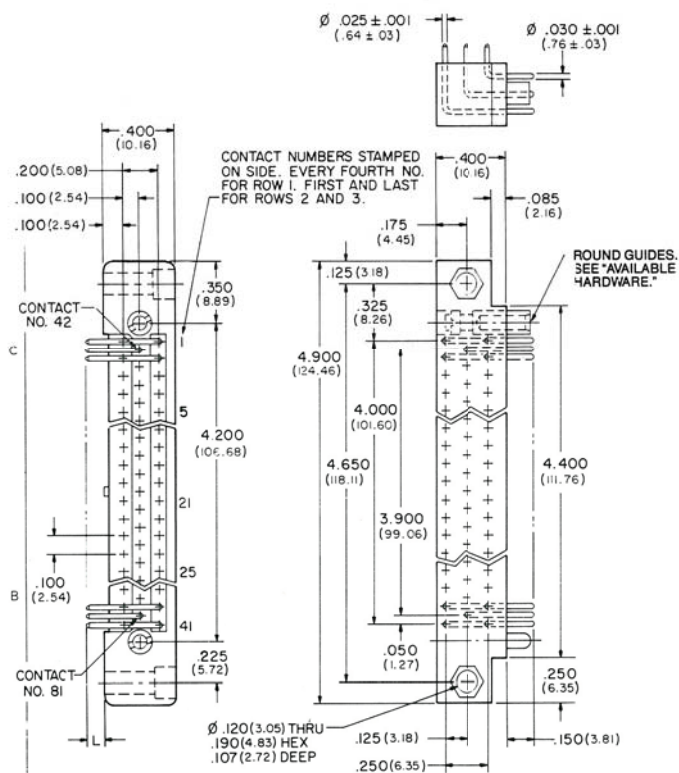
62 Contacts

SPECIFICATIONS: Refer to page 27

3MARP, 3MAR LC3MAR

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

3-ROW, HIGH DENSITY .100" (2.54MM) CONTACT SPACING 122 CONTACTS



L	ORDERING CODE
.109 (2.77)	D911
.140 (3.56)	D914

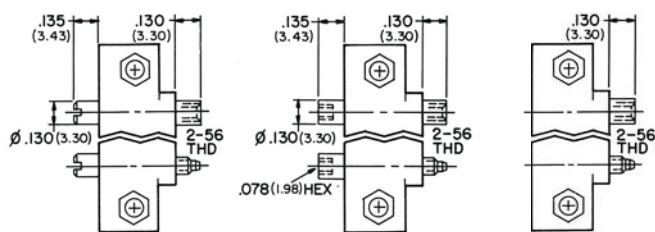
Right-Angle Pins 3MARP122P(1)(2)

- 1 Terminals: Series 3MARP: D911, D914
Series 3MAR: C, D14, D17, FD, FD10, W
2 Hardware: KS, K6, S, X, Y-+

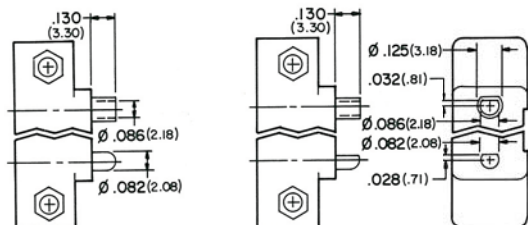
Options: Beryllium copper contacts, alternate polarization, and as required by customer.

Straight-Thru Pins 3MAR122P(1)(2)

HARDWARE (3MARP)



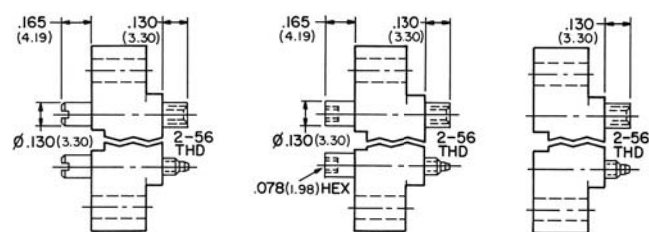
KS Short Turning Slotted Screwlocks
K6 Short Turning Hex. Screwlocks
S Fixed Screwlocks



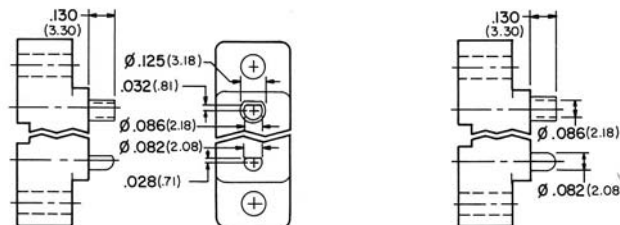
X Full Round Guides
Y-+ Adjustable Polarizing D-Shaped Guides

Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

HARDWARE (3MAR)

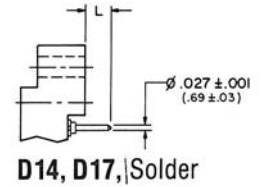
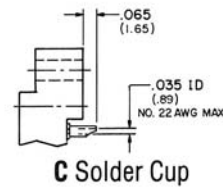
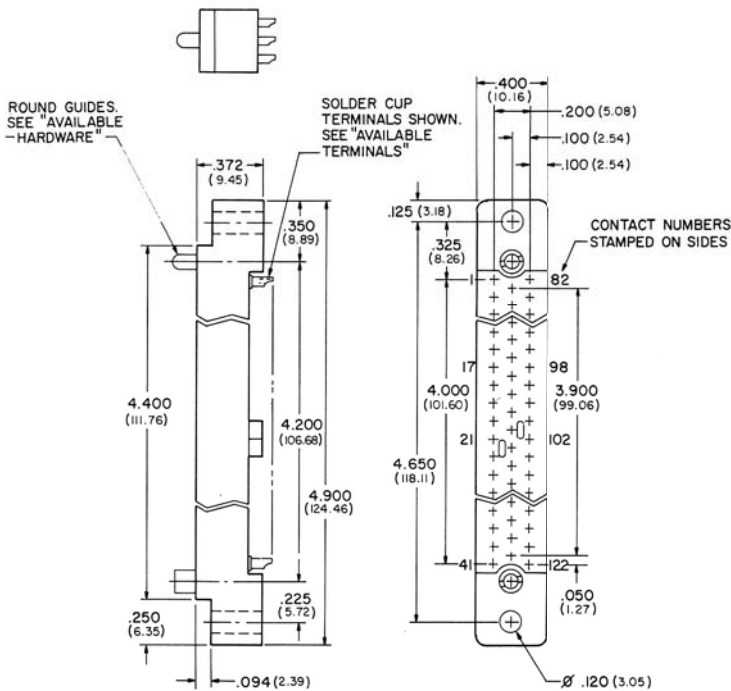


KS Short Turning Slotted Screwlocks
K6 Short Turning Hex. Screwlocks
S Fixed Screwlocks

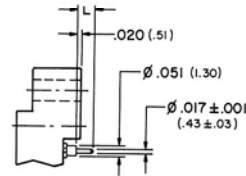


Y-+ Adjustable Polarizing D-Shaped Guides
X Full Round Guides

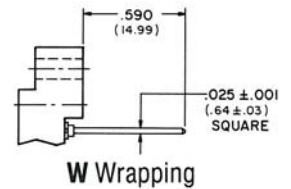
TERMINALS (3MAR & LC3MAR)



L	ORDERING CODE
.140 (3.56)	D14
.172 (4.37)	D17



L	ORDERING CODE
.058 (1.47)	FD
.100 (2.54)	FD10

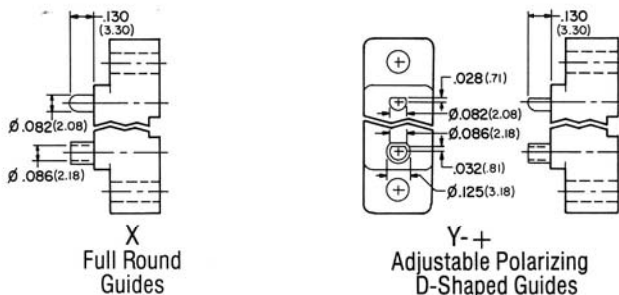
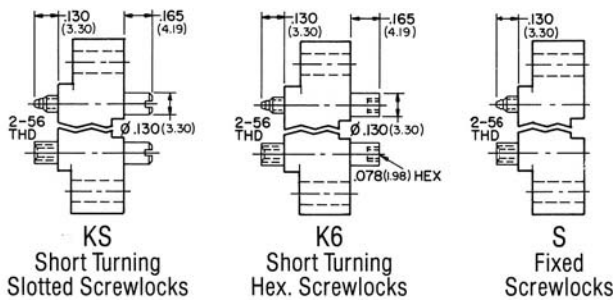


Straight-Thru Sockets LC3MAR122S(1)(2)

- ¹ Terminals: C, D14, D17, FD, FD10, W
² Hardware: KS, K6, S, X, Y-+

Options: Beryllium copper contacts, alternate polarization, and as required by customer.

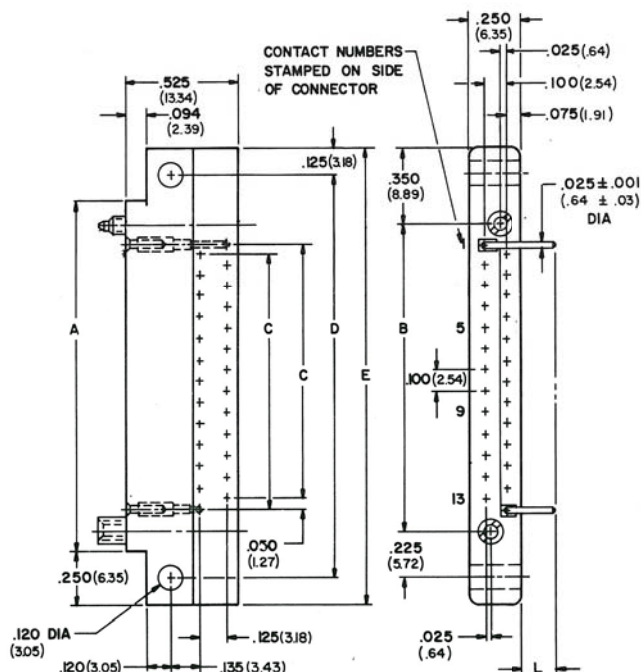
HARDWARE



SPECIFICATIONS: Refer to page 27

Polarizing guides are available in "-1" through "-64" position variations. Contact factory.

**10,14,20,24,26
30,36,40,44,50
54,56,60,66,70
CONTACTS**



Right-Angle Sockets

XMARR⁽¹⁾S⁽²⁾(³)

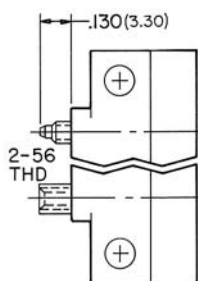
L	ORDERING CODE
.109 (277)	D911
.140 (3.56)	D914

¹ Number of contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

² Terminal: D911, D914

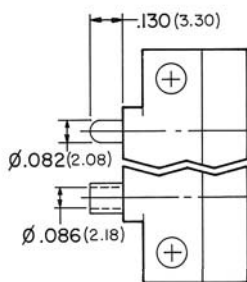
³ Hardware: S. X

HARDWARE



S

Fixed Screwlocks



X

Full Round Guides

NO. OF CONTACTS	DIMENSIONS				
	A	B	C	D	E
10	.850 (21.59)	.650 (16.51)	.400 (10.16)	1.100 (27.94)	1.350 (34.29)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)	1.300 (33.02)	1.550 (39.37)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)	1.600 (40.64)	1.850 (46.99)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

MATING CONNECTORS: Series XMARR mates with Series MR()P and MARP() using appropriate compatible hardware

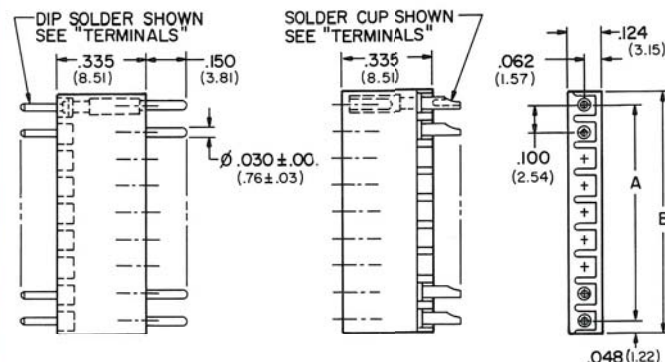
SPECIFICATIONS: Refer to page 27

ML

SINGLE ROW STRIP CONNECTORS

**.100" (2.54MM)
CONTACT CENTERS**

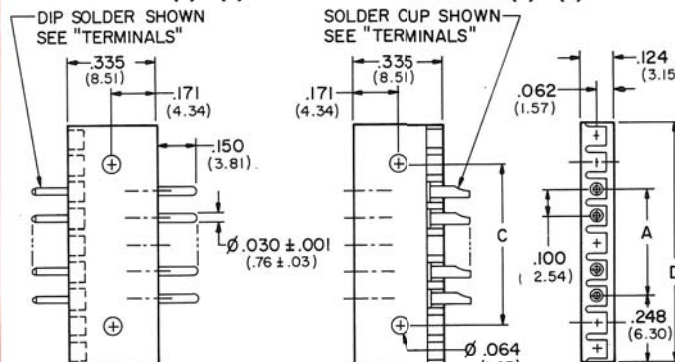
1 THRU 20 CONTACTS



Straight-Thru Pins

ML(1)P(2)

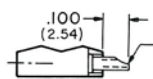
Straight-Thru Sockets

$$\mathbf{ML}^{(1)}\mathbf{S}^{(2)}$$


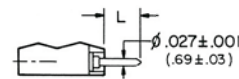
Mounting Holes

ML⁽¹⁾P⁽²⁾-A9**ML⁽¹⁾S⁽²⁾-A9**¹ Number of contacts: 1 thru 20 (1 thru 16 with mounting holes)² Terminals: C, D14, D17, D23, D911

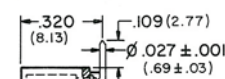
TERMINALS



C
Solder Cup



D14,D17,D23
Solder



D911
Solder (right-angle)

NO. OF CONTACTS	DIMENSIONS			
	A	B	C	D
1	—	.096 (2.44)	.200 (5.08)	.496 (12.60)
2	.100 (2.54)	.196 (4.98)	.300 (7.62)	.596 (15.14)
3	.200 (5.08)	.296 (7.52)	.400 (10.16)	.696 (17.68)
4	.300 (7.62)	.396 (10.06)	.500 (12.70)	.796 (20.22)
5	.400 (10.16)	.496 (12.60)	.600 (15.24)	.896 (22.76)
6	.500 (12.70)	.596 (15.14)	.700 (17.78)	.996 (25.30)
7	.600 (15.24)	.696 (17.68)	.800 (20.32)	1.096 (27.86)
8	.700 (17.78)	.796 (20.22)	.900 (22.86)	1.196 (30.38)
9	.800 (20.32)	.896 (22.76)	1.000 (25.40)	1.296 (32.92)
10	.900 (22.86)	.996 (25.30)	1.100 (27.94)	1.396 (35.46)
11	1.000 (25.40)	1.096 (27.84)	1.200 (30.48)	1.496 (38.00)
12	1.100 (27.94)	1.196 (30.38)	1.300 (33.02)	1.596 (40.54)
13	1.200 (30.48)	1.296 (32.92)	1.400 (35.56)	1.696 (43.08)
14	1.300 (33.02)	1.396 (35.46)	1.500 (38.10)	1.796 (45.62)
15	1.400 (35.56)	1.496 (38.00)	1.600 (40.64)	1.896 (48.16)
16	1.500 (38.10)	1.596 (40.54)	1.700 (43.18)	1.996 (50.70)
17	1.600 (40.64)	1.696 (43.08)	NA	NA
18	1.700 (43.18)	1.796 (45.62)	NA	NA
19	1.800 (45.72)	1.896 (48.16)	NA	NA
20	1.900 (48.26)	1.996 (50.70)	NA	NA

SPECIFICATIONS

SERIES M, MARP, MAR, MR, XCMARC, XCMRC, 3MARP, 3MAR, LC3MAR, XMARR, ML
(MIL-C-55302/55,/56,/57,/58,/59,/60,/61,/62,/63,/64,/65,/66,/138,/139)

FEATURES

Micro-miniature, right-angle and straight-thru pins and sockets, designed for use in cable-to-cable, cable-to-board, and board-to-board applications.

Small in size and weight; ruggedly constructed; suitable for use in airborne, ground systems, and commercial applications.

Choice of terminals to accommodate wire, flexible cable, and printed circuit boards of varying thicknesses.

Choice of hardware: Round alignment guides; polarizing guides; screwlocks for secure locking of plug and receptacle.

In conformance with the material, finish, design and performance requirements (electrical, mechanical, environmental) of MIL-C-55302.

Low insertion force socket contacts.

RATINGS

Test voltages:

Sea level: 1,000 volts rms, 60Hz.

High altitude (70,000 feet): 300 volts rms, 60 Hz.

Contact size: #22, 0.030" (0.76mm) diameter.

Wire size accommodated: #22 AWG.

Current rating: 5.0 amperes maximum per contact.

Contact resistance(at 5.0 amperes): 0.010 ohm maximum per contact; 0.010 ohm maximum average.

Insulation resistance: 5,000 megohms minimum at 500 volts DC.

Operating temperature: - 65°C to + 125°C.

Contact engagement and separation forces (standard force sockets): Minimum separation: 0.5 ounce. Maximum average engagement: 8.0 ounces.

Contact engagement and separation forces (low force sockets): Minimum separation: 0.5 ounce. Maximum average engagement: 4.0 ounces.

Connector mating and unmating forces (standard force sockets): Maximum mating force 0.56 pound times the number of contacts. Minimum unmating force 0.08 pound times the number of contacts.

Connector mating and unmating forces (low force sockets): Maximum mating force 0.25 pound times the number of contacts. Minimum unmating force 0.04 pound times the number of contacts.

Contact life: 500 cycles mating and unmating.

Terminations: Dip, 0.027" (0.69mm) dia.; flexible circuit, 0.017" (0.43mm) dia.; solder cup, 0.035" (0.91mm) dia.; wire-wrapping, 0.025" (0.64mm) square; crimp, wire sizes 22, 24 and 26 AWG.

MATERIALS & FINISHES

Molded inserts (except Series MARP sizes 100 and 120, LMAR sizes 100 and 120, XMARR size 70, 3MARP, 3MAR and LC3MAR): Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green; or optional polyphenylene sulfide per MIL-M-24519, type GST-40F, brown.

Designate polyphenylene sulfide with suffix "-R4" on our part number. Examples: MARP70PD914X-R4; MAR70SD17X-R4. (Check availability of polyphenylene sulfide.)

Series MARP sizes 100 and 120, LMAR sizes 100 and 120, XMARR size 70, 3MARP, 3MAR and LC3MAR: Standard insert material is polyphenylene sulfide per MIL-M-24519, type GST-40F, brown (no suffix "-R4" is required).

Pin contacts. Phosphor bronze per QQ-B-750 (standard); or optional beryllium copper per QQ-C-530. Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches.

Socket contacts:

Open entry types: Phosphor bronze per QQ-B-750 (standard); or optional beryllium copper per QQ-C-530 (standard on Series XMARR only). Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches.

Closed entry types with separate pressure member: Phosphor bronze body per QQ-B-750; beryllium copper pressure member per QQ-C-533. Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches.

Closed entry types with hood: Phosphor bronze per QQ-B-750 (standard); or optional beryllium copper per QQ-C-530. Gold plated per MIL-G-45204, type II, grade C, class 1, over nickel plate per QQ-N-290, class 2, 50 to 150 microinches. Hood of corrosion resistant steel per ASTM-A582, series 300, passivated per QQ-P-35.

Guides (except types Y and Y25 guide sockets): Corrosion resistant steel per ASTM-A582, series 300, passivated per QQ-P-35.

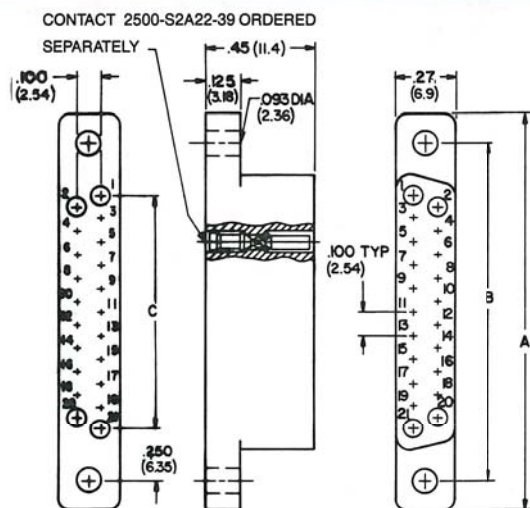
Guide sockets types Y and Y25: Beryllium copper per QQ-C-530, nickel plated per QQ-N-290.

Screwlocks: Corrosion resistant steel per ASTM-A582, series 300, passivated per QQ-P-35.

Series M, MARP, MAR, MR, XCMARC, XCMRC, 3MARP, 3MAR, LC3MAR, XMARR and ML are described more comprehensively in our brochure "MIL-C-55302/55 thru /139."

CRIMP REMOVABLE SOCKET CONNECTORS PRINTED CIRCUIT PIN CONNECTORS

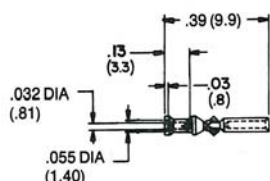
.100" (2.54MM) CONTACT SPACING
2 ROWS OFFSET .050" (1.27MM)
9,11,15,21,25,31,37,51 CONTACTS



Straight-Thru Sockets, Crimp Removable
J(1)S

¹ Number of contacts: 9, 11, 15, 21, 25, 31, 37, 51

² Gold thickness code: 30, 50, 100 (15mil is otherwise supplied)



2500-S2A22-39-(2)
Wire Crimp Socket
(Ordered separately)

NO. OF CONTACTS	DIMENSIONS		
	A	B	C
9	1.150 (29.21)	.900 (22.86)	.400 (10.16)
11	1.250 (31.75)	1.000 (25.40)	.500 (12.70)
15	1.450 (36.83)	1.200 (30.48)	.700 (17.78)
21	1.750 (44.45)	1.500 (38.10)	1.000 (25.40)
25	1.950 (49.53)	1.700 (43.18)	1.200 (30.48)
31	2.250 (57.15)	2.000 (50.80)	1.500 (38.10)
37	2.550 (64.77)	2.300 (58.42)	1.800 (45.72)
51	3.250 (82.55)	3.000 (76.20)	2.500 (63.50)

TOOLS (For wire crimp sockets)

MMM2558 - Contact insertion tool

MMM2559 - Contact removal tool.

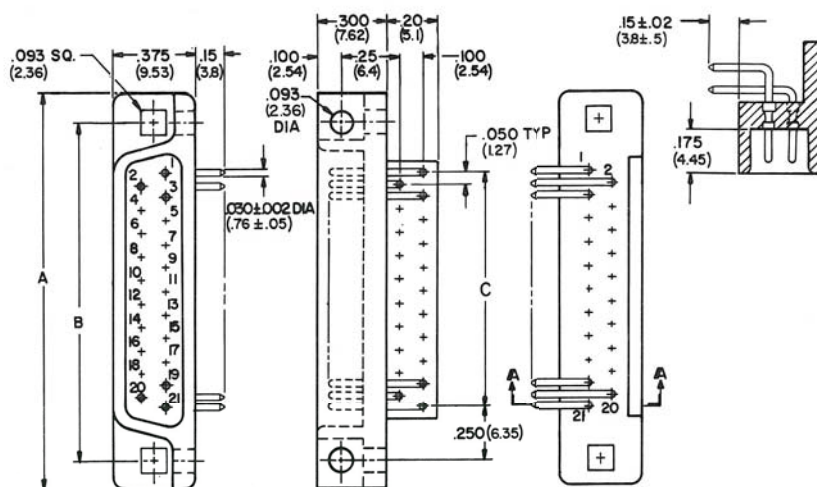
615717 (M22520/2-01) - Hand crimping tool

613939 - Positioner for crimping tool

Socket contacts are also available in plastic carriers on reels holding 2,000 contacts for use with Automatic Contact Feed Pneumatic Crimping Tool.

OPTIONS

Straight-thru pin connectors with choice of terminals; polarizing/locking screwlocks



Straight-Thru Pins
J(1)P90-15-(2)

FEATURES

Socket contacts are wire crimp removable and free-floating for self alignment. They feature closed entry construction to prevent probe damage. Excellent conductivity and a low millivolt drop are assured.

Pin contacts are integrally molded into the body material and are protected by a high strength, single-piece molded shell of glass fiber reinforced phenolic. Molding configuration prevents mismatching of plug and socket.

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced phenolic molding compound, per MIL-M-14, type MFH. Optional body material: Glass fiber reinforced diallyl phthalate, per MIL-M-14, type GDI-30F.

Pin contact material: Copper alloy.

Socket contact material: Copper alloy body, with pressure member of beryllium copper per QQ-C-533.

Contact finishes: Gold plate per MIL-G-45204, type II, grade C. Thicknesses:

- 0.000015" (0.4 micron)

30 - 0.000030" (0.8 microns) - Class 0

50 - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)

100 - 0.000100" (2.5 microns) - Class 2

Other finishes on request

PERFORMANCE CHARACTERISTICS

Voltagess, breakdown:

Sea level: 2,000 volts rms, 60 Hz.

70,000 feet: 350 volts rms, 60 Hz.

Voltagess, test:

Sea level: 1,500 volts rms, 60 Hz.

70,000 feet: 300 volts rms, 60 Hz.

Contact size: No. 22, 0.030" (0.76mm) diameter.

Current rating: 5.0 amperes maximum per contact.

Operating temperature: -65° C to +125° C.

Insulation resistance: 5,000 megohms minimum at 500 volts DC.

Crimp barrel for sockets: Accommodates No. 22, 24 and 26 AWG wire.

Series "J" is described more comprehensively in our "Series J" brochure.

J11S



J11P90-15

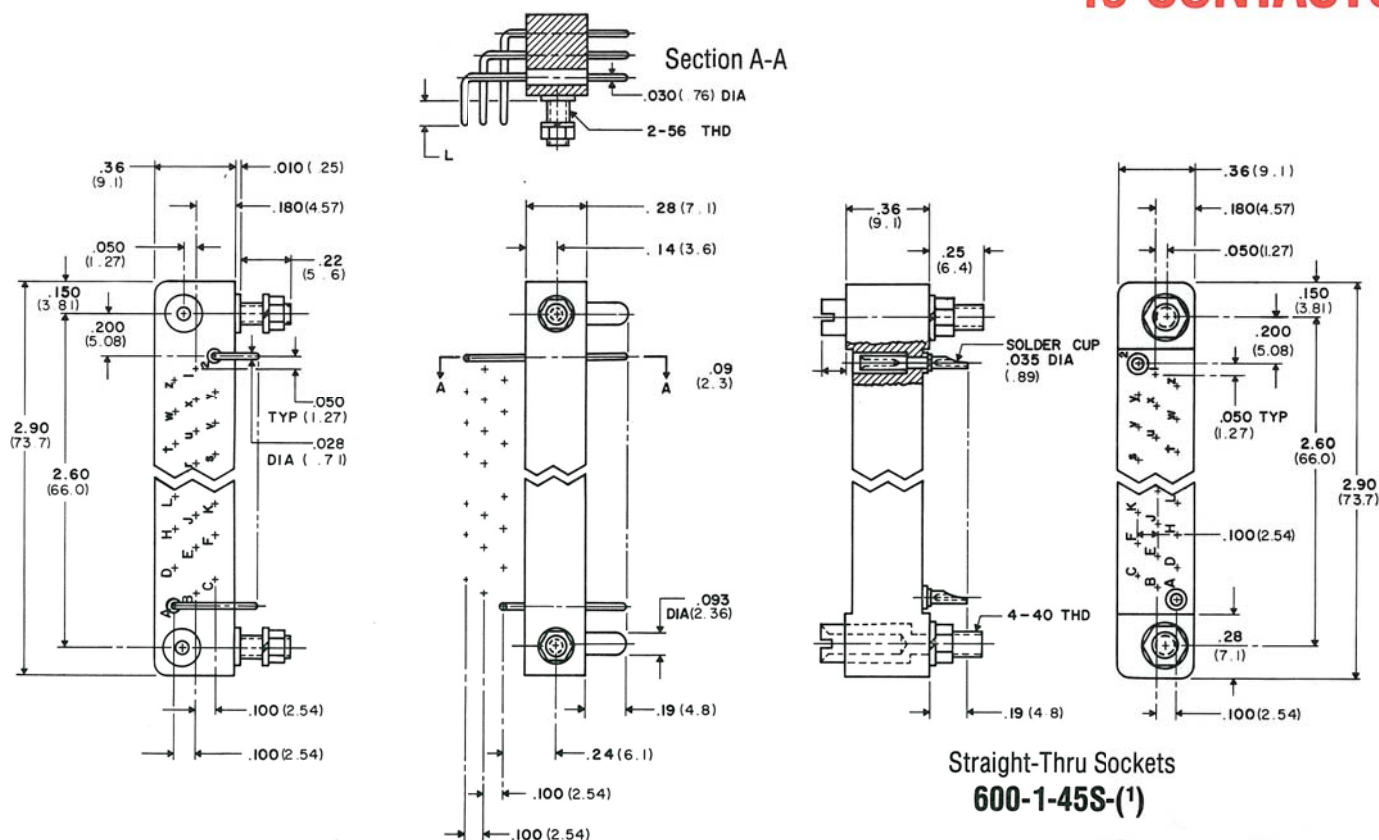


3-ROW HIGH DENSITY .150" (3.81 MM) CONTACT CENTERS 2 ROWS STAGGERED .050" (1.27MM)

600-1-45

PRINTED CIRCUIT PIN & SOCKET CONNECTORS

45 CONTACTS



Right-Angle Pins

600-1-45P-(1) (L = .10", 2.5mm)
600-1-45P13-(1) (L = .13", 3.3mm)

¹Gold thickness code: 30, 50, 100 (15mil is otherwise supplied)

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate, per MIL-M-14, type GDI-30F, green color.

Pin contact material: Phosphor bronze per QQ-B-750.

Socket contact material: Phosphor bronze per QQ-B-750.

Contact finishes: Gold plate per MIL-G-45204, type II, grade C. Thicknesses:

- 0.000015" (0.4 micron)

30 - 0.000030" (0.8 microns) - Class 0

50 - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)

100 - 0.000100" (2.5 microns) - Class 2

Other finishes on request

Guides, locking hardware and mounting hardware: Passivated corrosion resistant steel, or other suitable alloy plated (nickel) to resist corrosion.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown:

Sea level: 2,400 volts rms, 60 Hz.

70,000 feet: 400 volts rms, 60 Hz.

Voltages, test:

Sea level: 1,800 volts rms, 60 Hz.

70,000 feet: 300 volts rms, 60 Hz.

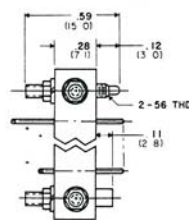
Contact size: No. 22, 0.030" (0.76mm) diameter.

Wire size accommodated: No. 22 AWG.

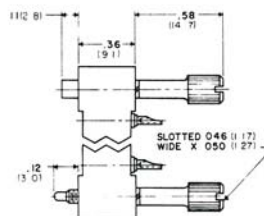
Current rating: 5.0 amperes maximum per contact.

Contact resistance(at 5.0 amperes): 0.005 ohm maximum per contact.

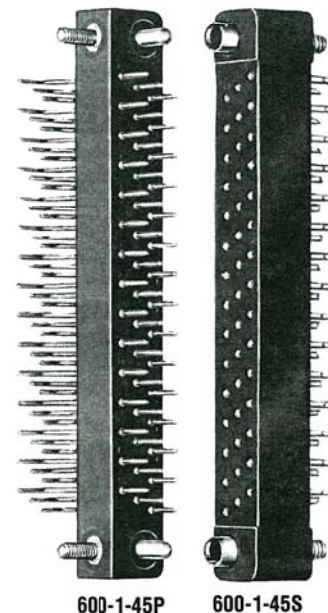
POLARIZING/LOCKING HARDWARE



600-1-45PS-(1)

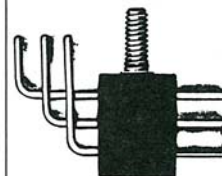


600-1-45SSK-(1)



600-1-45P

600-1-45S



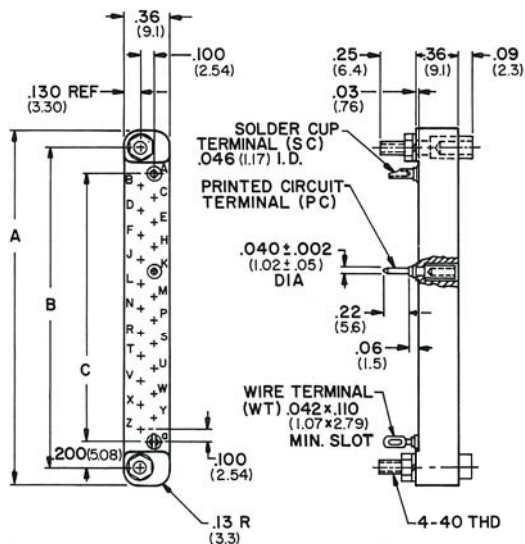
Enlarged side view illustrates right angle configuration of three rows of dip solder contacts

Series 600-1-45 is described more comprehensively in our "Right-Angle Pin and Socket" brochure.

145-5 MIL-C-55302/16,/17,/18 PRINTED CIRCUIT PIN & SOCKET CONNECTORS

.200" (5.08MM) CONTACT SPACING
2 ROWS OFFSET .100" (2.54MM)
7,9,11,15,19,23,37 CONTACTS

MIL-C-55302/17

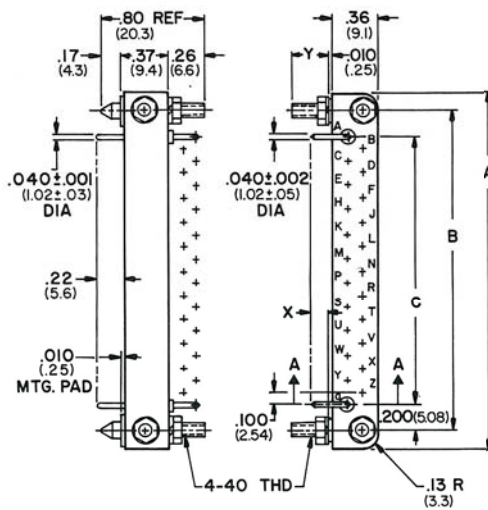


Terminal Code	
Terminal	Code
Solder cup (SC)	—
Printed circuit (PC)	1
Wire terminal (WT)	2

145-5-(1)S(2)(3)-(4)

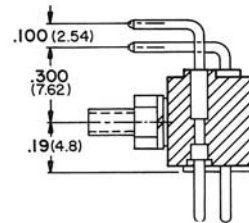
- ¹ Number of contacts: 7, 9, 11, 15, 19, 23, 37
² Terminal code: 1, 2 (Solder cup is otherwise supplied)
³ Optional locking hardware: S, SK
 (Guides are otherwise supplied)
⁴ Gold thickness: 30, 50, 100 (15mil is otherwise supplied)

***MIL-C-55302/16**



45-5-(1)RP(2)(3)-(4)

- 1 Number of contacts: 7, 9, 11, 15, 19, 23, 37
2 Optional terminal and stud length: 1. 2. 3. 4. 5 (See table)
3 Optional locking hardware: S, SK
(Guides are otherwise supplied)
4 Gold thickness: 30, 50, 100 (15mil is otherwise supplied)



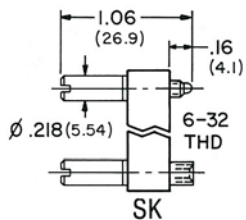
Section A-A

PART NO.	X	Y
145-5 () RP	.150 (3.81)	.25 (6.4)
145-5 () RP1	.085 (2.16)	.21 (5.3)
145-5 () RP2	.190 (4.83)	.30 (7.6)
145-5 () RP3	.220 (5.59)	.30 (7.6)
145-5 () RP4	.150 (3.81)	.21 (5.3)
145-5 () RP5	.150 (3.81)	.18 (4.6)

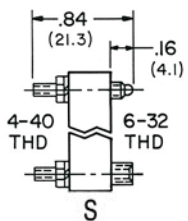
NO. OF CONTACTS	CONTACT IDENTIFICATION	DIMENSIONS		
		A	B	C REF
7	A THRU H	1.30 (33.0)	1.000 (25.40)	.600 (15.24)
9	A THRU K	1.50 (38.1)	1.200 (30.48)	.800 (20.32)
11	A THRU M	1.70 (43.2)	1.400 (35.56)	1.000 (25.40)
15	A THRU S	2.10 (53.3)	1.800 (45.72)	1.400 (35.56)
19	A THRU W	2.50 (63.5)	2.200 (55.88)	1.800 (45.72)
23	A THRU a	2.90 (73.7)	2.600 (66.04)	2.200 (55.88)
37	A THRU a	4.30 (109.2)	4.000 (101.60)	3.600 (91.44)

POLARIZING/LOCKING HARDWARE

Straight-Thru Sockets
Straight-Thru Pins

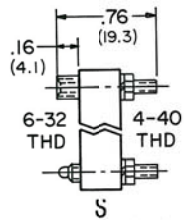


Turnable Screwlocks

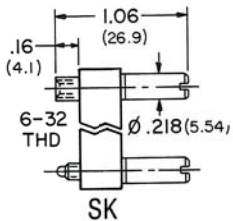


Fixed Screwlocks

Right-Angle Pins



Fixed Screwlocks



Turnable Screwlocks

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate, per MIL-M-14, type GDI-30F.

Pin contact material: Brass per QQ-B-626.

Socket contact material: Phosphor bronze per QQ-B-750.

Contact finishes: Gold plate per MIL-G-45204, type II, grade C.

Thicknesses:

- 0.000015'' (0.4 micron)

30 - 0.000030" (0.8 microns) - Class 0

50 - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)

100 - 0.000100" (2.5 microns) - Class 2

Other finishes on request.

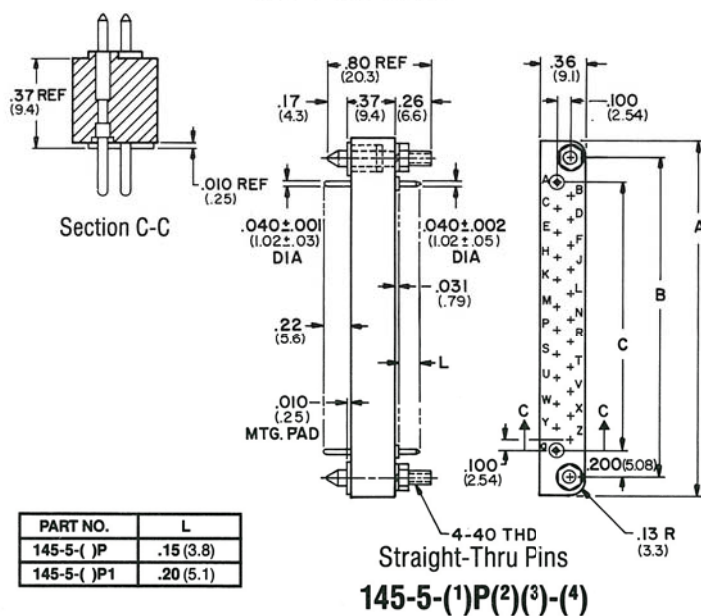
Guides: Brass per QQ-B-626; nickel plated per QQ-N-290.

Polarizing/locking hardware: Corrosion resistant steel per ASTM-A582, series 300; passivated per QQ-P-35.

Lockwashers and hex. nuts: Copper alloy; nickel plated per QQ-N-290.

CROSS-REFERENCE

MIL-C-55302/18



- ¹ Number of contacts: 7, 9, 11, 15, 19, 23, 37
² Optional terminal length: 1 (See table)
³ Optional locking hardware: S, SK (Guides are otherwise supplied)
⁴ Gold thickness: 30, 50, 100 (FLASH is otherwise supplied)

PERFORMANCE CHARACTERISTICS

Voltages, breakdown:

Sea level: 2,250 volts rms, 60 Hz.
 70,000 feet: 425 volts rms, 60 Hz.

Voltages, test:

Sea level: 1,675 volts rms, 60 Hz.
 70,000 feet: 375 volts rms, 60 Hz.

Contact size: No. 20, 0.040" (1.02mm) diameter

Wire size accommodated: No. 20 AWG.

Current rating: 7.5 amperes maximum per contact.

Contact resistance(at 7.5 amperes): 0.005 ohm maximum per contact.

Operating temperature: -65° C to +125° C.

Insulation resistance: 5,000 megohms minimum at 500 volts DC.

Connector mating force: Shall not exceed 1.0 times the number of contacts.

Connector unmating force: Shall exceed 0.25 pound times the number of contacts.

Contact life: 500 cycles mating and unmating.

Connectors meet all other requirements of MIL-C-55302 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved contact gold finish.

Series 145-5 is described more comprehensively in our "MIL-C-55302/16,/17,/18" brochure

MIL P/N	CCC P/N
M55302/16-01	MS145-5-7RP
M55302/16-02	MS145-5-9RP
M55302/16-03	MS145-5-11RP
M55302/16-04	MS145-5-15RP
M55302/16-05	MS145-5-19RP
M55302/16-06	MS145-5-23RP
M55302/16-07	MS145-5-7RPSK
M55302/16-08	MS145-5-9RPSK
M55302/16-09	MS145-5-11RPSK
M55302/16-10	MS145-5-15RPSK
M55302/16-11	MS145-5-19RPSK
M55302/16-12	MS145-5-23RPSK
M55302/16-13	MS145-5-7RPS
M55302/16-14	MS145-5-9RPS
M55302/16-15	MS145-5-11RPS
M55302/16-16	MS145-5-15RPS
M55302/16-17	MS145-5-19RPS
M55302/16-18	MS145-5-23RPS
M55302/16-19	MS145-5-37RP
M55302/16-20	MS145-5-37RPSK
M55302/16-21	MS145-5-37RPS

MIL P/N CCC P/N

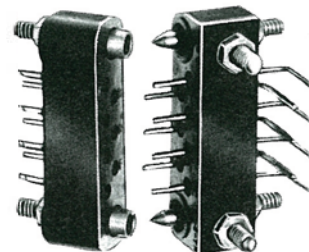
M55302/17-01	MS145-5-7S1
M55302/17-02	MS145-5-9S1
M55302/17-03	MS145-5-11S1
M55302/17-04	MS145-5-15S1
M55302/17-05	MS145-5-19S1
M55302/17-06	MS145-5-23S1
M55302/17-07	MS145-5-7S
M55302/17-08	MS145-5-9S
M55302/17-09	MS145-5-11S
M55302/17-10	MS145-5-15S
M55302/17-11	MS145-5-19S
M55302/17-12	MS145-5-23S
M55302/17-13	MS145-5-7S2
M55302/17-14	MS145-5-9S2
M55302/17-15	MS145-5-11S2
M55302/17-16	MS145-5-15S2
M55302/17-17	MS145-5-19S2
M55302/17-18	MS145-5-23S2
M55302/17-19	MS145-5-7S1SK
M55302/17-20	MS145-5-9S1SK
M55302/17-21	MS145-5-11S1SK
M55302/17-22	MS145-5-15S1SK
M55302/17-23	MS145-5-19S1SK
M55302/17-24	MS145-5-23S1SK
M55302/17-25	MS145-5-7SSK
M55302/17-26	MS145-5-9SSK
M55302/17-27	MS145-5-11SSK
M55302/17-28	MS145-5-15SSK
M55302/17-29	MS145-5-19SSK
M55302/17-30	MS145-5-23SSK
M55302/17-31	MS145-5-7S2SK
M55302/17-32	MS145-5-9S2SK
M55302/17-33	MS145-5-11S2SK
M55302/17-34	MS145-5-15S2SK
M55302/17-35	MS145-5-19S2SK
M55302/17-36	MS145-5-23S2SK
M55302/17-37	MS145-5-7S1S
M55302/17-38	MS145-5-9S1S
M55302/17-39	MS145-5-11S1S
M55302/17-40	MS145-5-15S1S
M55302/17-41	MS145-5-19S1S
M55302/17-42	MS145-5-23S1S
M55302/17-43	MS145-5-7SS
M55302/17-44	MS145-5-9SS

MIL P/N	CCC P/N
M55302/17-45	MS145-5-11SS
M55302/17-46	MS145-5-15SS
M55302/17-47	MS145-5-19SS
M55302/17-48	MS145-5-23SS
M55302/17-49	MS145-5-7S2S
M55302/17-50	MS145-5-9S2S
M55302/17-51	MS145-5-11S2S
M55302/17-52	MS145-5-15S2S
M55302/17-53	MS145-5-19S2S
M55302/17-54	MS145-5-23S2S
M55302/17-55	MS145-5-37S1
M55302/17-56	MS145-5-37S
M55302/17-57	MS145-5-37S2
M55302/17-58	MS145-5-37S1SK
M55302/17-59	MS145-5-37SSK
M55302/17-60	MS145-5-37S2SK
M55302/17-61	MS145-5-37S1S
M55302/17-62	MS145-5-37SS
M55302/17-63	MS145-5-37S2S

MIL P/N CCC P/N

M55302/18-01	MS145-5-7P
M55302/18-02	MS145-5-9P
M55302/18-03	MS145-5-11P
M55302/18-04	MS145-5-15P
M55302/18-05	MS145-5-19P
M55302/18-06	MS145-5-23P
M55302/18-07	MS145-5-7PSK
M55302/18-08	MS145-5-9PSK
M55302/18-09	MS145-5-11PSK
M55302/18-10	MS145-5-15PSK
M55302/18-11	MS145-5-19PSK
M55302/18-12	MS145-5-23PSK
M55302/18-13	MS145-5-7PS
M55302/18-14	MS145-5-9PS
M55302/18-15	MS145-5-11PS
M55302/18-16	MS145-5-15PS
M55302/18-17	MS145-5-19PS
M55302/18-18	MS145-5-23PS
M55302/18-19	MS145-5-37P
M55302/18-20	MS145-5-37PSK
M55302/18-21	MS145-5-37PS

Prefix "MS" of our part numbers signifies total compliance with MIL-C-55302 and the applicable specification sheets (/16,/17,/18)

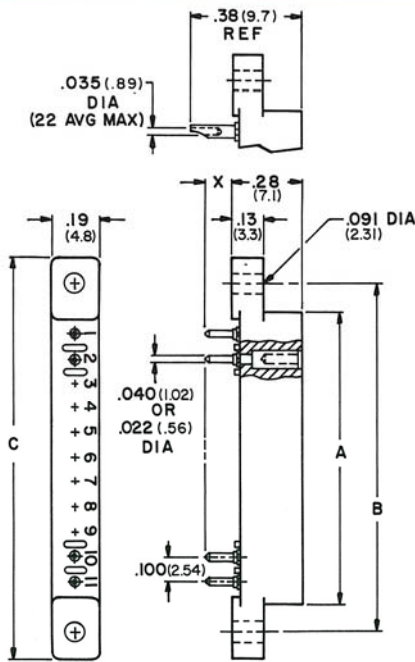


145-5-7S 145-5-7RP
7 Contacts

C670-100, 670-100 ST670-100

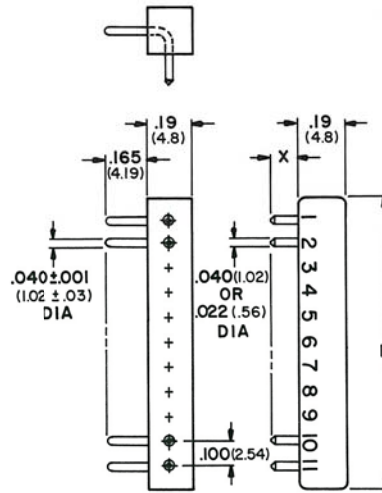
PRINTED CIRCUIT PIN & SOCKET CONNECTORS

.100" (2.54MM) CONTACT SPACING
9, 11, 15, 18, 22, 25, 30, 36,
40, 50 CONTACTS



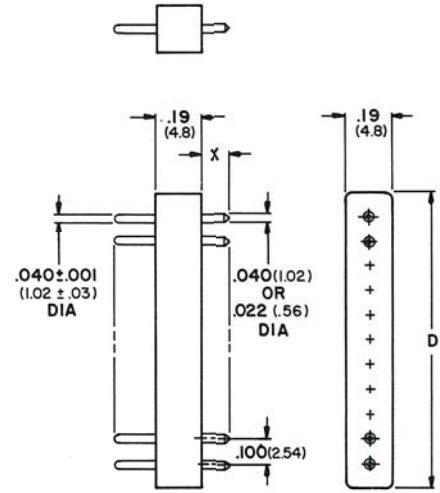
Straight-Thru Sockets

C670-100-(1)S-(3) Solder cup
C670-100-(1)SD22(2)-(3) Terminal dia. .022(.56)
C670-100-(1)SD40(2)-(3) Terminal dia. .040(1.02)



Right-Angle Pins

670-100-(1)PD22(2)-(3) Terminal dia. .022 (.56)
670-100-(1)PD40(2)-(3) Terminal dia. .040(1.03)



Straight-Thru Pins

ST600-100-(1)PD22(2)-(3) Terminal dia. .022(.56)
ST600-100-(1)PD40(2)-(3) Terminal dia. .040(1.02)

¹ Number of contacts: 9, 11, 15, 18, 22, 25, 30, 36, 44, 50
² Length of terminal: 6, 8, 10, 12 (See Table)
³ Contact gold thickness code: 30, 50, 100 (15mil is otherwise supplied)

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate, per MIL-M-14, type GDI-30F, green color.

Pin contact material: Brass, per QQ-B-626.

Socket contact material: Brass body, per QQ-B-626, with pressure member of beryllium copper per QQ-C-533.

Contact finishes: Gold plate, per MIL-G-45204, type II, grade C.

Thicknesses:

- 0.000015" (0.4 micron)
 - 30** - 0.000030" (0.8 microns) - Class 0
 - 50** - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)
 - 100** - 0.000100" (2.5 microns) - Class 2
- Other finishes on request

NO. OF CONTACTS	DIMENSIONS				TERMINAL LENGTH	
	A	B	C	D	X ± .015	CODE
9	.99 (25.2)	1.208 (30.68)	1.43 (36.3)	.99 (25.2)	.093 (2.36)	6
11	1.19 (30.2)	1.408 (35.76)	1.63 (41.4)	1.19 (30.2)	.125 (3.18)	8
15	1.59 (40.4)	1.808 (45.92)	2.03 (51.6)	1.59 (40.4)	.156 (3.96)	10
18	1.89 (48.0)	2.140 (54.36)	2.38 (60.5)	1.89 (48.0)	.187 (4.75)	12
22	2.29 (58.2)	2.540 (64.52)	2.78 (70.6)	2.29 (58.2)		
25	2.59 (65.8)	2.840 (72.14)	3.08 (78.2)	2.59 (65.8)		
30	3.09 (78.5)	3.340 (84.84)	3.58 (90.9)	3.09 (78.5)		
36	3.69 (93.7)	3.940 (100.08)	4.18 (106.2)	3.69 (93.7)		
44	4.49 (114.0)	4.740 (120.40)	4.98 (126.5)	4.49 (114.0)		
50	5.09 (129.3)	5.340 (135.64)	5.58 (141.7)	5.09 (129.3)		

PERFORMANCE CHARACTERISTICS

Voltagess, breakdown:

Sea level: 2,200 volts rms, 60 Hz.
70,000 feet: 400 volts rms, 60 Hz.

Voltagess, test:

Sea level: 1,500 volts rms, 60 Hz.
70,000 feet: 300 volts rms, 60 Hz.

Contact size: No. 20, 0.040" (1.02mm) diameter.

Wire size accommodated: No. 22 AWG.

Current rating: 5.0 amperes maximum per contact.

Operating temperature: -65° C to +125° C.

Insulation resistance: 5,000 megohms minimum at 500 volts DC.

Connector mating force: Shall not exceed 0.56 pound times the number of contacts.

Connector unmating force: Shall exceed 0.08 pound times the number of contacts.

Contact life: 500 cycles mating and unmating, minimum.

Connectors meet all other requirements of MIL-C-55302 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved contact gold finish.

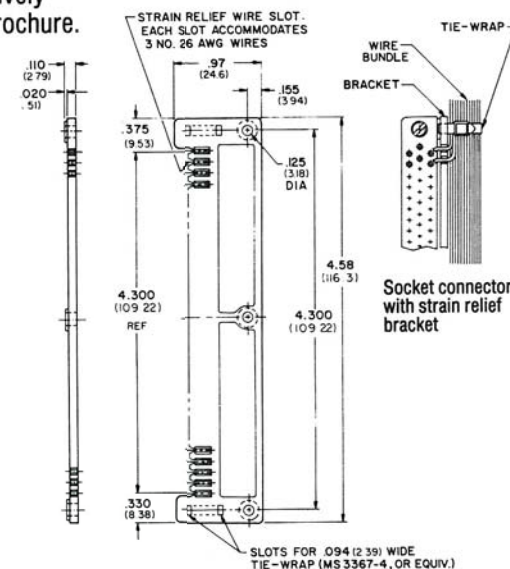
C670-100-11SD22

670-100-11PD22

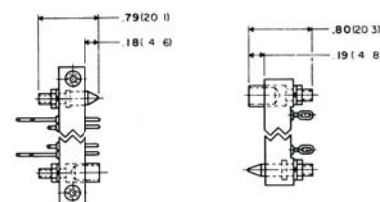


11 Contacts

SIV600-1



600-1-50



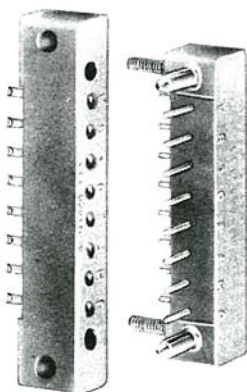
WINCHESTER ELECTRONICS CORPORATION - CONTINENTAL CONNECTOR

4 CONTACTS

670-156-4S

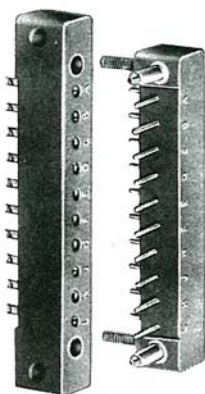


670-156-4PD

8 CONTACTS

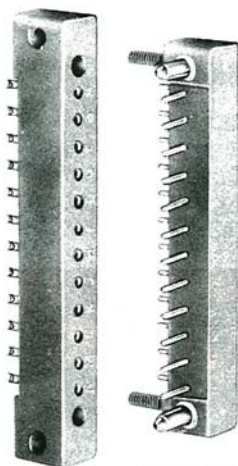
670-156-8S

670-156-8PD

10 CONTACTS

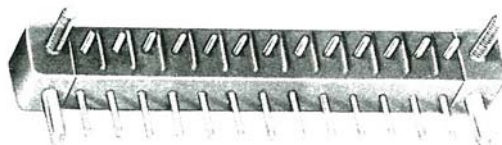
670-156-10S

670-156-10PD

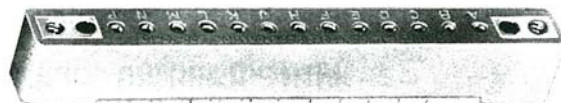
12 CONTACTS

670-156-12S

670-156-12PD

13 CONTACTS

670-156-13PD



670-156-13S

PERFORMANCE CHARACTERISTICS**Voltages, breakdown** (volts rms, 60Hz):

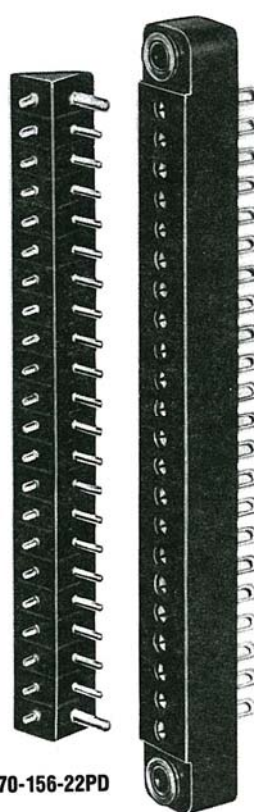
At sea level: 2,500; At 70,000 feet: 600.

Voltages, test (volts rms, 60Hz):

At sea level: 1,875; At 70,000 feet: 450.

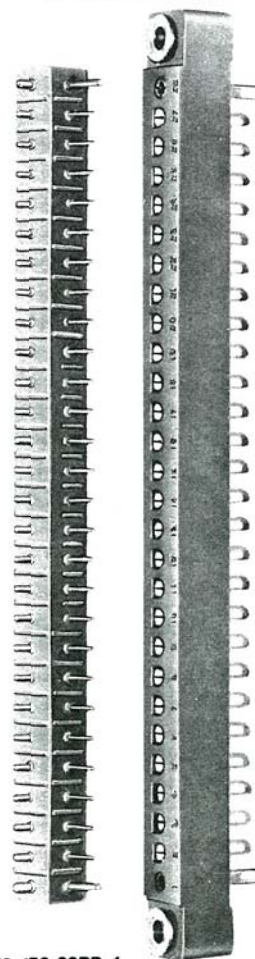
Contact size: No. 22, 0.040" (1.02mm) diameter.

First and last contacts on sizes 22 and 28: No. 16, 0.0625" (1.588mm) diameter.

Current rating: 7.5 amperes max. per contact.**Wire size accommodated:** No. 20 AWG.**22 CONTACTS**

670-156-22PD

670-156-22SC

28 CONTACTS

670-156-28PD-1

670-156-28SC



End View

MATERIALS & FINISHES**Molded inserts:**

Connector sizes 4, 8, 10, 12 and 13: Phenolic molding compound, per MIL-M-14, type MFE.

Connector sizes 22 and 28: Diallyl phthalate, per MIL-M-14, type GDI-30F.

Pin contact material: Brass, per QQ-B-626.

Two contacts (first and last) on sizes 22 and 28 only: Beryllium copper, per QQ-C-530.

Socket contact material: Phosphor bronze, per QQ-B-750.**Contact finishes:** Gold plate, per MIL-G-45204. Thicknesses.

0.000015" (0.4 micron)

30 - 0.000030" (0.8 micron) - Class 0

50 - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)

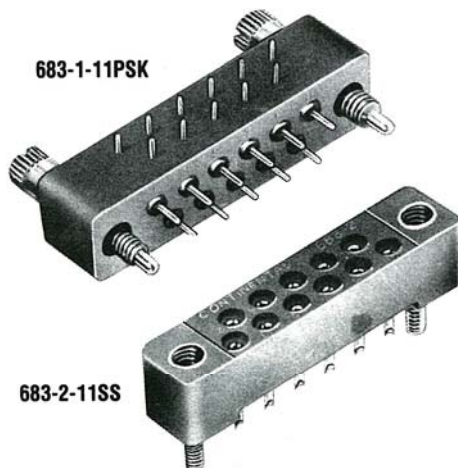
100 - 0.000100" (2.5 microns) - Class 2

Other finishes on request.

Series 670 is described more comprehensively in our "Right-Angle Pin & Socket Connectors" brochure.

11 & 33 CONTACTS

.200" (5.08mm) contact spacing;
.100" (2.54mm) staggered

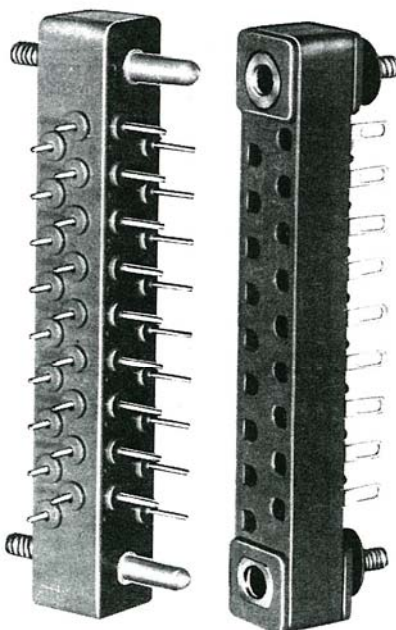


683-1-11PSK

683-2-11SS

18 CONTACTS

.250" (6.35mm) contact spacing;
.125" (3.18mm) staggered

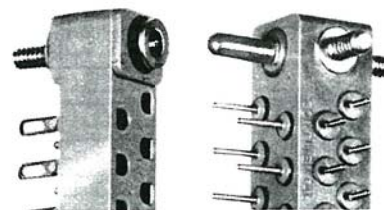


683-20-18P

683-21-18S

28 CONTACTS

.250" (6.35mm) contact spacing;
.125" (3.18mm) staggered

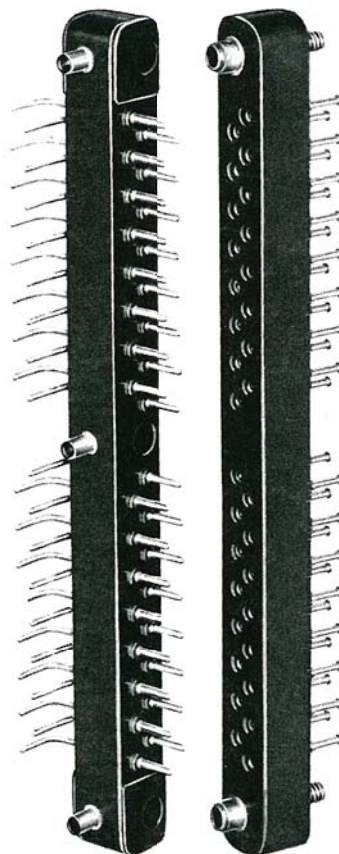


683-31-28S

683-30-28P

32 CONTACTS

.200" (5.08mm) contact spacing;
.100" (2.54mm) staggered

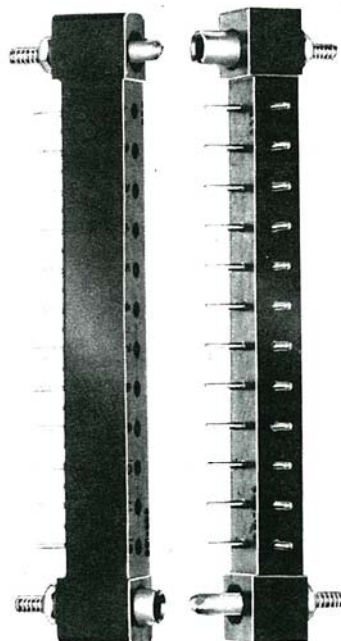


683-26-32P

683-27-32ST

12 CONTACTS

.200" (5.08mm) contact spacing;

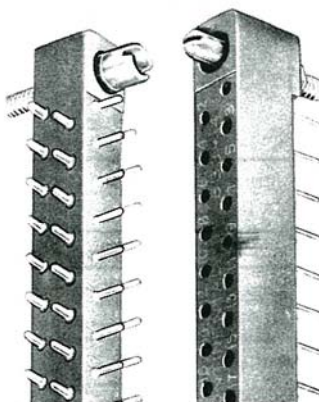


683-12S

683-12P

19 CONTACTS

.200" (5.08mm) contact spacing;
.100" (2.54mm) staggered



683-13-19P

683-14-19SD

MATERIALS & FINISHES

Molded inserts: (except 18 contact connector): Diallyl phthalate, per MIL-M-14, type GDI-30F.

Connectors 683-20-18P and 683-21-18S only: Phenolic molding compound, per MIL-M-14, type MFE.

Pin contact material: Brass, per QQ-B-626.

Socket contact material: Phosphor bronze per QQ-B-750.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:

0.000015" (0.4 micron)

30 - 0.000030" (0.8 micron) - Class 0

50 - 0.000050" (1.3 microns) - Class 1 (MIL-SPEC approved)

100 - 0.000100" (2.5 microns) - Class 2

Other finishes on request

Hardware: Passivated corrosion resistant steel, or other suitable material plated to resist corrosion.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

Sizes	Sea level	70,000 feet
11, 12, 19, 33	4,000	1,000
18, 28	4,500	1,000
32	3,300	900

Voltages, test (volts rms, 60Hz):

Sizes	Sea level	70,000 feet
11, 12, 19, 33	3,100	750
18, 28	3,300	800
32	2,400	675

Current rating: 7.5 amperes max. per contact.

Series 683 is described more comprehensively in our "Right-Angle Pin & Socket Connectors" brochure.

672 & TJ

PRINTED CIRCUIT TEST POINT CONNECTORS

FOR .080" (2.03 MM) PROBE

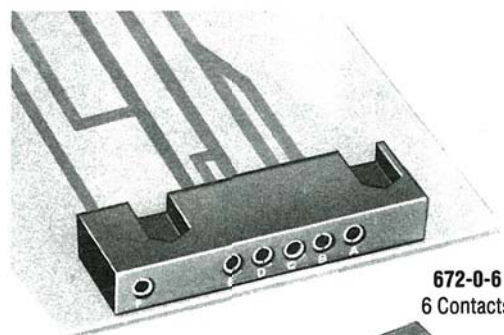
1, 2, 4, 5, 6, 8, 12, 14, 16, 20, 21, 28, 30, 42, 56, 63 CONTACTS

Series 672 & TJ is described more comprehensively in our "672 & TJ" brochure.

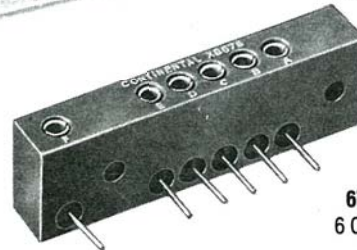


C672-13-63
63 Contacts

NO. OF CONTACTS	PART NUMBER	CENTER SPACING	CURRENT RATING (AMPS)	BREAKDOWN SEA LEVEL (V. RMS)	TEST SEA LEVEL (V. RMS)		
1	TJ4	N/A	7.5	—	2,000		
	TJ6		5	2,800	2,000		
	TJ8						
	TJ9						
2	TJ10	.200(5.08)	5	4,000	3,000		
4	672-7-4	.156(3.96)	5	3,000	2,200		
	672-16-4			2,200	1,650		
	672-29-4			3,000	2,250		
	C672-37-4						
5	C672-18-5	.150(3.81)	5	2,200	1,650		
	C672-20-5	.156(3.96)		2,500	1,875		
	672-0-5			3,000	2,200		
6	672-0-6	.156(3.96)	5	3,000	2,200		
	672-4-6						
	672-4-1-6						
	672-6-6						
	C672-30-6			3,400	2,500		
8	C672-31-8	.156(3.96)	5	2,800	2,000		
	L672-31-8			3,600	2,500		
	C672-35-8			2,200	1,650		
	C672-35-1-8						
	C672-11-8	.200(5.08)		3,000	2,250		
	C672-11-1-8						
	C672-11-2-8						
	C672-11-3-8						
12	C672-36-12	.156(3.96)	5	2,000	1,500		
	C672-36-1-12						
14	C672-14-14	.200(5.08)	5	3,000	2,500		
	672-32P-14		7.5	4,000	3,000		
	672-32S-14						
16	C672-9-16	.200(5.08)	5	3,000	2,250		
	C672-17-16						
	C672-17-1-16						
	C672-17-2-16			5,000	3,750		
	MSC672-17-2-16						
	C672-21-16					3,000	2,250
	C672-21-1-16					3,600	2,700
20	C672-26-53-20	.164(4.17)	13	3,000	2,200		
21	C672-34-21	.156(3.96)	5	2,200	1,650		
28	C672-8-28	.200(5.08)	5	3,000	2,250		
30	C672-27-53-30	.165(4.19)	13	3,000	2,200		
42	C672-10-42	.380(9.65)	13	6,000	4,000		
56	C672-38-56	.200(5.08)	5	4,000	3,000		
	C672-39-56						
63	C672-13-63	.200(5.08)	5	3,000	2,250		

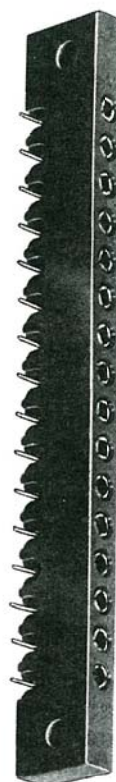


672-0-6
6 Contacts



672-6-6
6 Contacts

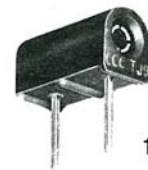
Series 672 & TJ test point connectors have recessed and floating pin terminals mounted at right angle to the test socket. They dip solder to printed circuit boards with complete ease of alignment (except C672-10-42, 672-32P-14, C672-32S-14, C672-38-56, C672-39-56, C672-26-53-20 & C672-27-53-30, supplied with solder cup or taper pin terminations for direct wiring). Each socket grips and holds securely a standard .080" (2.03mm) test probe. The molded body can double as a convenient handle for insertion and withdrawal of printed circuit boards.



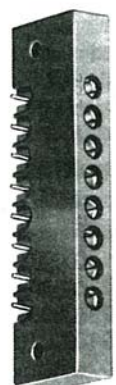
C672-17-16
16 Contacts



TJ4
1 Contact



TJ9
1 Contact



C672-31-8
8 Contacts

PRINTED CIRCUIT — CARDEDGE

CENTER SPACING	BOARD THKNS	READOUT	SERIES NUMBER	NUMBER OF POSITIONS ¹
.050 (1.27)	1/32 (.79)	Dual	6050-31-135	20,30,50,64
	1/16 (1.59)	Dual	600-6	10,14,22,40,50,55,64,66
.075 (1.91)	1/16 (1.59)	Dual	6050-175	54
	1/16 (1.59)	Dual	600-75	40
.100 (2.54)	1/32 (.79)	Single	6100-0	11,12,17,18
		Dual	6121-32-175	6,10,12,15,18,19,20,22,25,26,28,30,31,35,36,40,43,50
	.039 (1mm)	Single	610M-0	11
		Dual	6100-40-200	36,72
	1/16 (1.59)	Single	6100-006	11,12,17,18
			6121-0	10,15,17,19,26,30,35,43,50
			600-121PCSC	26
		Dual	600-121	10,12,15,19,26,27,29,30,33,35,36,40
			6100-200	6,10,15,17,18,20,22,24,25,26,28,30,35,36,40,43,44,48,50,60,61,65,70,75,100
			V6121-150	6,10,12,15,18,19,20,22,25,26,28,30,31,35,36,40,43,44,50
			6121-140	35,60
			6121-200	43,50
			FT6100-130	65 (Feed-thru)
	3/32 (2.38)	Single	6100-125-0	31
		Dual	600-94	38
	1/8 (3.18)	Dual	6100-300	61
.125 (3.18)	1/32 (.79)	Single	600-4PCSC13	13
	1/32 (.79)	Dual	600-4PC	7,10
	.054 (1.38)	Single	600-132-16	16
	1/16 (1.59)	Single	600-128PCSC	28
			600-132-28	28
		Dual	600-126	16
			K600-128	22,28
			6125-2	28
			6125-125	33
			6125-250	5,6,10,15,18,20,22,25,28,30,31,35,36,40,43,44,49,50,57,60,65,75,80,100
			M6125-250	3,4,5

CENTER SPACING	BOARD THKNS	READOUT	SERIES NUMBER	NUMBER OF POSITIONS ¹
.140 (3.56)	1/16 (1.59)	Single	600-62	32
		Dual	600-120-11	62
.150 (3.81)	1/16 (1.59)	Single	600-5PCSC	25
			600-110-800	25
.156 (3.96)	1/16 (1.59)	Single	600-5PCSC	6,15,18,22,28,36
			600-8PCSC	6,15,18,22,28,36
			600-11PCSC	6,10,15,18,22,28,36,43
			600-13PCSC	15,18,28,36
			600-110	6,15,18,22,28,36
			600-123	6,10,15,18,22,28,36
		Dual	600-5PC	18,28,30
			600-8PC	18,28,30
			600-11	6,10,12,15,18,22,25,28,36,43
			600-13PC	18,28,30
			600-120	6,10,15,18,22,28,43
			6156-200	6,8,10,12,15,18,22,24,25,28,30,32,36,43,50
			6156-200W	10,22,28,30,36,43
			Q6156-140	6,10,15,18,22,36,43
			FT6156	22,28,36,43 (Feed-thru)
	3/32 (2.38)	Single	600-29-3PCSC	15,18,22,25,28
			600-30-3PCSC	15,18,22,25,28
		Dual	600-29-3PC	6,10,15,18,22,25
			600-30-3PC	6,10,15,18,22,25,28
	1/8 (3.18)	Dual	FT6156-093	25 (Feed-thru)
			600-39-4PC	10
.200 (5.08)	1/16 (1.59)	Dual	600-83	18,28,32
			6200-200	28,32

¹ For **single** readout connectors the number of positions listed is the same as the number of terminals.
For **dual** readout connectors the number of positions listed is one-half the number of terminations (conversely, the number of terminations is two times the number of positions listed).

The **highlighted** series are specified herein on pages 37-43.

Specifications of other series of interest are provided on request.

600-6

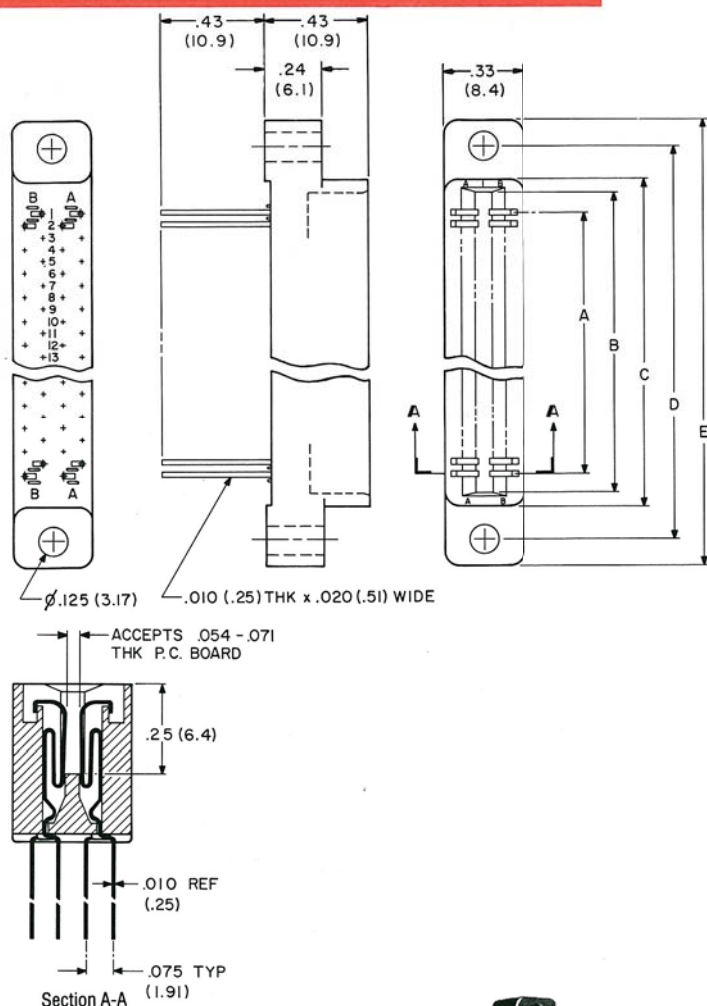
CARDEDGE CONNECTORS

DUAL READOUT, BELLOW FORM CONTACTS

.050" (1.27 MM) CONTACT SPACING

***FOR 1/16(1.6) PRINTED CIRCUIT BOARD**
20,28,44,80,100,110,128,132 CONTACTS

***-Available for 1/32(.79) Board**



NO. OF DUAL CONTACTS	DIMENSIONS				
	A	B	C	D	E
10/10	.450 (11.43)	.625 (15.88)	.72 (18.3)	1.000 (25.40)	1.22 (31.0)
14/14	.650 (16.51)	.825 (20.96)	.92 (23.4)	1.200 (30.48)	1.42 (36.1)
22/22	1.050 (26.67)	1.225 (31.11)	1.32 (33.5)	1.600 (40.64)	1.82 (46.2)
40/40	1.950 (49.53)	2.125 (53.98)	2.22 (56.4)	2.500 (63.50)	2.72 (69.1)
50/50	2.450 (62.23)	2.625 (66.68)	2.72 (69.1)	3.000 (76.20)	3.22 (81.8)
55/55	2.700 (68.58)	2.875 (73.03)	2.97 (75.4)	3.250 (82.55)	3.47 (88.1)
64/64	3.150 (80.01)	3.325 (84.46)	3.42 (86.9)	3.700 (93.98)	3.92 (99.6)
66/66	3.250 (82.55)	3.425 (87.00)	3.52 (89.4)	3.800 (96.52)	4.02 (102.1)

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

At sea level: 1,350.

At 70,000 feet: 450.

Voltages, test (volts rms, 60Hz):

At sea level: 900.

At 70,000 feet: 300.

Current rating: 3 amperes max. per contact.

Contact resistance (at 1 ampere): 30 MV max.

Minimum creepage between contacts: .025"(.64mm).

Minimum air space between contacts: .025"(.64mm).

Board insertion force, opposing contacts:

8 oz. max. using 0.070"(1.78mm) steel blade.

Board separation force, opposing contacts:

.5 oz. min. using 0.054"(1.37mm) steel blade.

Terminations: For soldering, welding, or conductive adhesives.

MATERIAL AND FINISHES

Molded inserts (standard): Diallyl phthalate, per MIL-M-14, type SDG.

Optional material: Flame retardant diallyl phthalate, per MIL-M-14, type SDG-F (ordering code: DGF).

Contacts: Beryllium copper, per QQ-C-533.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:

0.000015"(0.4 micron)

30 - 0.000030"(0.8 microns)

50 - 0.000050"(1.3 microns) - Class 1. (MIL-SPEC approved)

Other finishes on request.

PART NUMBER NOMENCLATURE

1	2	3	4
600-6PC	-	40	DGF -

1. Series: **600-6PC**.

2. Number of dual contacts:

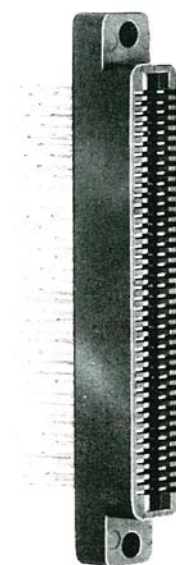
10, 14, 22, 40, 50, 55, 64, 66

3. Alternate body material: **DGF**.

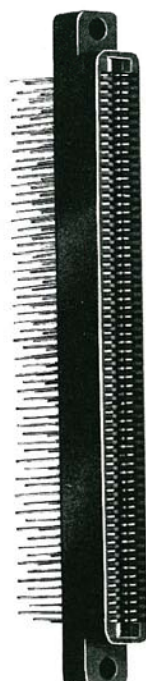
(Standard material is otherwise supplied)

4. Optional gold thickness: **30, 50**.

(0.000015", 0.4 micron, is otherwise supplied).



600-6PC40
40 Dual Contacts
80 Terminals



600-6PC64
64 Dual Contacts
128 Terminals

.100" (2.54 MM) CONTACT SPACING FOR 1/16(1.6) PRINTED CIRCUIT BOARDS 12 THRU 100 CONTACTS

V6121-150

CARDEGE CONNECTORS DUAL READOUT

Series V6121-150 is described more comprehensively
in our "V6121-150" brochure

NO. OF CONTACTS	DIMENSIONS				
	A	B	C	D	E
6/6	.500 (12.70)	.707 (17.95)	.875 (22.22)	1.175 (29.84)	1.475 (37.46)
10/10	.900 (22.86)	1.107 (28.11)	1.275 (32.38)	1.575 (40.00)	1.875 (47.62)
12/12	1.100 (27.94)	1.307 (33.19)	1.475 (37.46)	1.775 (45.08)	2.075 (52.70)
15/15	1.400 (35.56)	1.607 (40.81)	1.775 (45.08)	2.075 (52.70)	2.375 (60.32)
18/18	1.700 (43.18)	1.907 (48.43)	2.075 (52.70)	2.375 (60.32)	2.675 (67.94)
19/19	1.800 (45.72)	2.007 (50.98)	2.175 (55.25)	2.475 (62.87)	2.775 (70.49)
20/20	1.900 (48.26)	2.107 (53.51)	2.275 (57.78)	2.575 (65.40)	2.875 (73.02)
22/22	2.100 (53.34)	2.307 (58.59)	2.475 (62.86)	2.775 (70.48)	3.075 (78.10)
25/25	2.400 (60.96)	2.607 (66.21)	2.775 (70.48)	3.075 (78.10)	3.375 (85.72)
26/26	2.500 (63.50)	2.707 (68.76)	2.875 (73.02)	3.175 (80.65)	3.475 (88.27)
28/28	2.700 (68.58)	2.907 (73.83)	3.075 (78.10)	3.375 (85.72)	3.675 (93.34)
30/30	2.900 (73.66)	3.107 (78.91)	3.275 (83.18)	3.575 (90.81)	3.875 (98.42)
31/31	3.000 (76.20)	3.207 (81.45)	3.375 (85.72)	3.675 (93.34)	3.975 (100.96)
35/35	3.400 (86.36)	3.607 (91.61)	3.775 (95.88)	4.075 (103.50)	4.375 (111.12)
36/36	3.500 (88.90)	3.707 (94.15)	3.875 (98.42)	4.175 (106.04)	4.475 (113.66)
40/40	3.900 (99.06)	4.107 (104.31)	4.275 (108.58)	4.575 (116.20)	4.875 (123.82)
43/43	4.200 (106.68)	4.407 (111.93)	4.575 (116.20)	4.875 (123.82)	5.175 (131.44)
44/44	4.300 (109.22)	4.507 (114.47)	4.675 (118.74)	4.975 (126.36)	5.275 (133.98)
50/50	4.900 (124.46)	5.107 (129.71)	5.275 (133.98)	5.575 (141.60)	5.875 (149.22)

MATERIALS AND FINISHES

Molded inserts: Phenolic molding compound, per MIL-M-14, type MFH.
Optional material: Diallyl phthalate, per MIL-M-14, type GDI-30F

Contacts: Beryllium copper, per QQ-C-533.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:
0.000015" (0.4 micron).

30 - 0.000030" (0.8 micron) - Class 0.

50 - 0.000050" (1.3 microns) - Class 1. (MIL-SPEC approved)
Other finishes on request.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

At sea level: 2,000; At 70,000 feet: 500.

Voltages, test (volts rms, 60Hz):

At sea level: 1,500; At 70,000 feet: 375.

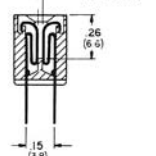
Current rating: 3 amperes max. per contact.

PART NUMBER NOMENCLATURE

1	2	3	4	5	6
V6121-150	-	72	DD13	A	- 30

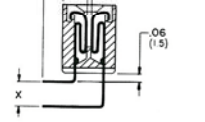
- Series: **V6121-150**.
- Number of contacts: **12 thru 100**.
- Termination: **X, DD13, DD20, DD38**.
- Mounting style: **A, B, C, M3, A9**.
(Without "ears" is otherwise supplied).
- Optional diallyl phthalate molding: **GDF**.
(Phenolic is otherwise supplied).
- Optional gold thickness: **30, 50**.
(0.000015", 0.4 micron, is otherwise supplied).

ACCEPTS
.054-.071 THK
(1.37)-(1.80)
P.C. BOARD



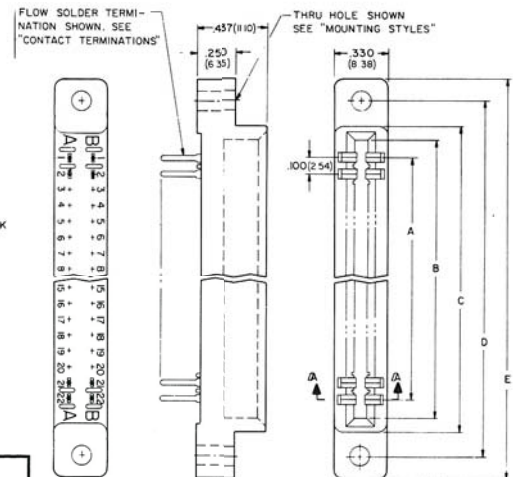
Section A-A

ACCEPTS
.054-.071 THK
(1.37)-(1.80)
P.C. BOARD

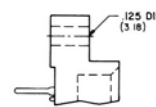


90° Terminals
Flow (Dip) Solder

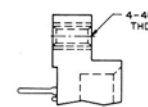
X	CODE
.156 (3.96)	DD9
.200 (5.08)	DD9K1



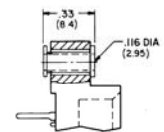
MOUNTING STYLES



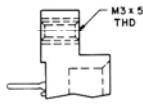
A
Thru-Hole



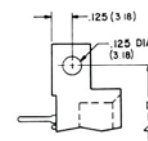
B
Threaded Insert



C
Floating Bushing



M3
Metric Thread

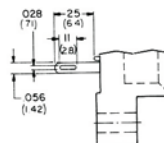


A9
90° Thru-Hole

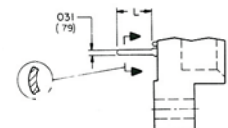


Without "Ears"

TERMINATIONS

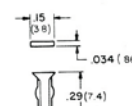


X
Solder Lug



DD13, DD20, DD38
Flow(Dip) Solder
Fits .037(.94) DIA hole

POLARIZING KEY (Nylon)



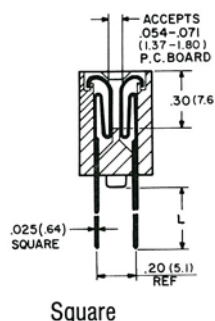
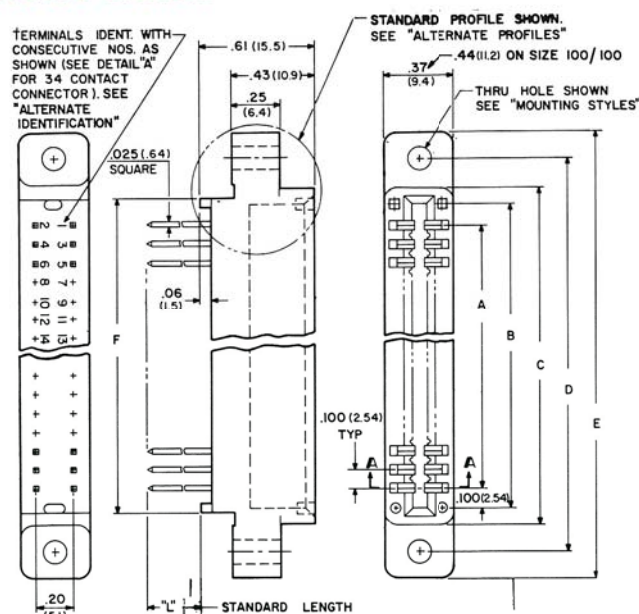
602-39

L	ORDERING CODE
.13 (3.3)	DD13
.20 (5.1)	DD20
.38 (9.7)	DD38

6100-200

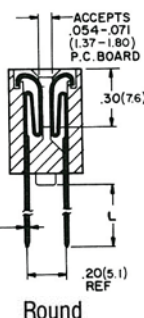
CARDEDGE CONNECTORS DUAL READOUT

Series 6100-200 is described more comprehensively in our "6100-200" brochure

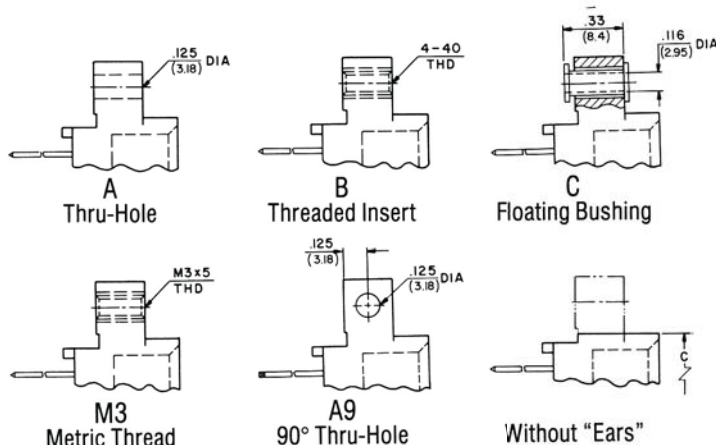


TERMINATIONS

"L"*	CODE SQUARE TERMINATIONS	CODE ROUND TERMINATIONS
.11 (2.8)	W11	D11
.16 (4.1)	W16	D16
.20 (5.1)	W20	D20
.30 (7.6)	W30	D30
.45 (11.4)	W45	D45
.60 (15.2)	W	D60



MOUNTING STYLES



OTHER OPTIONS

Alternate molding profiles (flush mounting; without standoffs), alternate contact identification, 90° terminations (square and round), alternate contact finishes, between contact polarizing keys.

.100" (2.54 MM) CONTACT SPACING FOR 1/16(1.6) PRINTED CIRCUIT BOARD .025 (.64) SQ. OR .026 (.66) RND. TERMN. 12 THRU 200 CONTACTS

NO. OF CONTACTS	DIMENSIONS					
	A	B	C	D	E	F
6/6	.500 (12.70)	.700 (17.78)	.860 (21.84)	1.175 (29.85)	1.435 (36.45)	.750 (19.05)
10/10	.900 (22.86)	1.100 (27.94)	1.260 (32.00)	1.575 (40.01)	1.835 (46.61)	1.150 (29.21)
15/15	1.400 (35.56)	1.600 (40.64)	1.760 (44.70)	2.075 (52.71)	2.335 (59.31)	1.650 (41.91)
17/17	1.600 (40.64)	1.820 (46.23)	1.970 (50.04)	2.240 (56.90)	2.500 (63.50)	1.840 (46.74)
18/18	1.700 (43.18)	1.900 (48.26)	2.060 (52.32)	2.375 (60.33)	2.635 (66.93)	1.950 (49.53)
20/20	1.900 (48.26)	2.100 (53.34)	2.260 (57.40)	2.575 (65.41)	2.835 (72.01)	2.150 (54.61)
*22/22	2.100 (53.34)	2.300 (58.42)	2.460 (62.48)	2.775 (70.49)	3.035 (77.09)	2.350 (59.69)
24/24	2.300 (58.42)	2.500 (63.50)	2.660 (67.56)	2.975 (75.57)	3.235 (82.17)	2.550 (64.77)
25/25	2.400 (60.96)	2.600 (66.04)	2.760 (70.10)	3.075 (78.11)	3.335 (84.71)	2.650 (67.31)
26/26	2.500 (63.50)	2.700 (68.58)	2.900 (73.66)	3.200 (81.28)	3.500 (88.90)	2.775 (70.49)
28/28	2.700 (68.58)	2.900 (73.66)	3.060 (77.72)	3.375 (85.73)	3.635 (92.33)	2.950 (74.93)
30/30	2.900 (73.66)	3.100 (78.74)	3.260 (82.80)	3.575 (90.81)	3.835 (97.41)	3.150 (80.01)
35/35	3.400 (86.36)	3.600 (91.44)	3.760 (95.50)	4.075 (103.51)	4.335 (110.11)	3.650 (92.71)
*36/36	3.500 (88.90)	3.700 (93.98)	3.860 (98.04)	4.175 (106.05)	4.435 (112.65)	3.750 (95.25)
40/40	3.900 (99.06)	4.100 (104.14)	4.260 (108.20)	4.575 (116.21)	4.835 (122.81)	4.150 (105.41)
*43/43	4.200 (106.68)	4.400 (111.76)	4.560 (115.82)	4.875 (123.83)	5.135 (130.43)	4.450 (113.03)
44/44	4.300 (109.22)	4.500 (114.30)	4.660 (118.36)	4.975 (126.37)	5.235 (132.97)	4.550 (115.57)
48/48	4.700 (119.38)	4.900 (124.46)	5.150 (130.81)	5.450 (138.43)	5.710 (145.03)	5.130 (130.30)
*50/50	4.900 (124.46)	5.100 (129.54)	5.260 (133.60)	5.575 (141.61)	5.835 (148.21)	5.150 (130.81)
60/60	5.900 (149.86)	6.100 (154.94)	6.260 (159.00)	6.575 (167.01)	6.835 (173.61)	6.150 (156.21)
61/61	6.000 (152.40)	6.200 (157.48)	6.360 (161.54)	6.675 (169.55)	6.940 (176.28)	6.250 (158.75)
65/65	6.400 (162.56)	6.600 (167.64)	6.760 (171.70)	7.075 (179.71)	7.335 (186.31)	6.650 (168.91)
70/70	6.900 (175.26)	7.100 (180.34)	7.260 (184.40)	7.575 (192.41)	7.835 (199.01)	7.150 (181.61)
75/75	7.400 (187.96)	7.600 (193.04)	7.760 (197.10)	8.075 (205.11)	8.335 (211.71)	7.650 (194.31)
100/100	9.900 (251.46)	10.100 (256.54)	10.260 (260.60)	10.575 (268.61)	10.835 (275.21)	10.150 (257.81)

*THESE CONNECTORS ARE AVAILABLE IN THE FOLLOWING ALTERNATE LENGTHS. ORDER BY ADDING PREFIX "R" TO P/N. EXAMPLE: R6100-200-72WA.

	22/22	36/36	43/43	50/50		
	2.100 (53.34)	2.300 (58.42)	2.550 (64.77)	2.850 (72.39)	3.110 (78.99)	3.350 (59.69)
	3.500 (88.90)	3.700 (93.98)	3.950 (100.33)	4.250 (107.95)	4.550 (115.57)	3.930 (99.82)
	4.200 (106.68)	4.400 (111.76)	4.650 (118.11)	4.950 (125.73)	5.250 (133.35)	4.630 (117.60)
	4.900 (124.46)	5.100 (129.54)	5.350 (135.89)	5.650 (143.51)	5.950 (151.13)	5.330 (135.38)

MATERIALS AND FINISHES

Molded inserts: Phenolic molding compound, per MIL-M-14, type MFH.

Optional material: Diallyl phthalate, per MIL-M-14, type GDI-30F.

Contacts: Phosphor bronze, per QQ-B-750.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:
0.000015" (0.4 micron).

30 - 0.000030" (0.8 micron) - Class 0.

50 - 0.000050" (1.3 microns) - Class 1. (MIL-SPEC approved)

Other finishes on request.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

At sea level: 2,000; At 70,000 feet: 500.

Voltages, test (volts rms, 60Hz):

At sea level: 1,500; At 70,000 feet: 375.

Current rating: 3 amperes max. per contact.

PART NUMBER NOMENCLATURE

1	2	3	4	5	6
6100-200	-	100	W20	A	GDF - 50

1. Series: 6100-200.

2. Number of contacts: 12 thru 200.

3. Termination: W11, W16, W20, W30, W45, W, D11, D16, D20, D30, D45, D60.

4. Mounting style: A, B, C, M3, A9.

(Without "ears" is otherwise supplied).

5. Optional diallyl phthalate molding: GDF.

(Phenolic is otherwise supplied).

6. Optional gold thickness: 30, 50.

(0.000015", 0.4 micron, is otherwise supplied).

.125" (3.18 MM) CONTACT SPACING FOR 1/16(1.6) PRINTED CIRCUIT BOARD .025 (.64) SQ. OR .026 (.66) RND. TERMN. 12 THRU 200 CONTACTS

6125-250

CARDEDGE CONNECTORS DUAL READOUT

NO. OF CONTACTS	DIMENSIONS					
	A	B	C	D	E	F
6/6	.625 (15.90)	.875 (22.23)	1.035 (26.29)	1.295 (32.89)	1.555 (39.50)	.875 (22.23)
10/10	1.125 (28.58)	1.375 (34.93)	1.535 (38.99)	1.795 (45.59)	2.055 (52.20)	1.375 (34.93)
15/15	1.750 (44.45)	2.000 (50.80)	2.160 (54.86)	2.420 (61.47)	2.580 (66.07)	2.000 (50.80)
18/18	2.125 (53.98)	2.375 (60.33)	2.535 (64.39)	2.795 (70.99)	3.055 (77.60)	2.375 (60.33)
20/20	2.375 (60.33)	2.625 (66.68)	2.785 (70.74)	3.045 (77.34)	3.305 (83.95)	2.625 (66.68)
22/22	2.625 (66.68)	2.875 (73.03)	3.035 (77.09)	3.295 (83.69)	3.555 (90.30)	2.875 (73.03)
25/25	3.000 (76.20)	3.250 (82.55)	3.410 (86.61)	3.670 (93.22)	3.930 (99.82)	3.250 (82.55)
28/28	3.375 (85.73)	3.625 (92.08)	3.785 (96.14)	4.045 (102.74)	4.305 (109.35)	3.625 (92.08)
30/30	3.625 (92.08)	3.875 (98.43)	4.035 (102.49)	4.295 (109.09)	4.555 (115.70)	3.875 (98.43)
31/31	3.750 (95.25)	4.000 (101.60)	4.160 (105.66)	4.420 (112.27)	4.580 (118.87)	4.000 (101.60)
35/35	4.250 (107.95)	4.500 (114.30)	4.660 (118.36)	4.920 (124.97)	5.180 (131.57)	4.500 (114.30)
36/36	4.375 (111.13)	4.625 (117.48)	4.785 (121.54)	5.045 (128.14)	5.305 (134.75)	4.625 (117.48)
40/40	4.875 (123.83)	5.125 (130.18)	5.285 (134.24)	5.545 (140.84)	5.805 (147.45)	5.125 (130.18)
43/43	5.250 (133.35)	5.500 (139.70)	5.660 (143.76)	5.920 (150.37)	6.180 (156.97)	5.500 (139.70)
44/44	5.375 (136.53)	5.625 (142.88)	5.785 (146.94)	6.045 (153.54)	6.305 (160.15)	5.625 (142.88)
49/49	6.000 (152.40)	6.250 (158.75)	6.410 (162.81)	6.670 (169.42)	6.930 (176.02)	6.250 (158.75)
50/50	6.125 (155.58)	6.375 (161.93)	6.535 (165.99)	6.795 (172.59)	7.055 (179.20)	6.375 (161.93)
57/57	7.000 (177.80)	7.250 (184.15)	7.410 (188.21)	7.670 (194.82)	7.930 (201.42)	7.250 (184.15)
60/60	7.375 (187.33)	7.625 (193.68)	7.785 (197.74)	8.045 (204.34)	8.305 (210.95)	7.625 (193.68)
65/65	8.000 (203.20)	8.250 (209.55)	8.410 (213.61)	8.670 (220.22)	8.930 (226.82)	8.250 (209.55)
75/75	9.250 (234.95)	9.500 (241.30)	9.660 (245.36)	9.920 (251.97)	10.180 (258.57)	9.500 (241.30)
80/80	9.875 (250.83)	10.125 (257.18)	10.285 (261.24)	10.545 (267.84)	10.805 (274.45)	10.125 (257.18)
100/100	12.375 (314.33)	12.625 (320.68)	12.785 (324.74)	13.045 (331.34)	13.305 (337.95)	12.625 (320.68)

MATERIALS AND FINISHES

Molded inserts: Phenolic molding compound, per MIL-M-14, type MFH.
Optional material: Diallyl phthalate, per MIL-M-14, type GDI-30F.

Contacts: Phosphor bronze, per QQ-B-750.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:

- 0.000015" (0.4 micron).
 - 30 - 0.000030" (0.8 micron) - Class 0.
 - 50 - 0.000050" (1.3 microns) - Class 1. (MIL-SPEC approved)
- Other finishes on request.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

At sea level: 2,400; At 70,000 feet: 600.

Voltages, test (volts rms, 60Hz):

At sea level: 1,800; At 70,000 feet: 450.

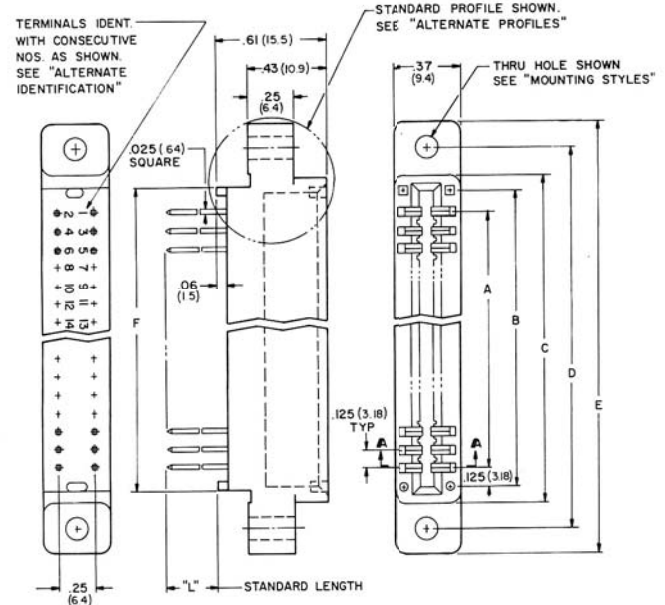
Current rating: 3 amperes max. per contact.

PART NUMBER NOMENCLATURE

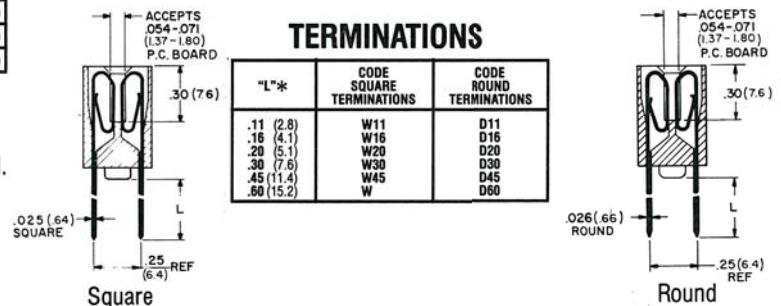
1	2	3	4	5	6
6125-250	-	100	W20	A	-

- Series: **6125-250**.
- Number of contacts: **12 thru 200**.
- Termination: **W11, W16, W20, W30, W45, W, D11, D16, D20, D30, D45, D60**.
- Mounting style: **A, B, C, M3, A9**.
(Without "ears" is otherwise supplied).
- Optional diallyl phthalate molding: **GDF**.
(Phenolic is otherwise supplied).
- Optional gold thickness: **30, 50**.
(0.000015", 0.4 micron, is otherwise supplied).

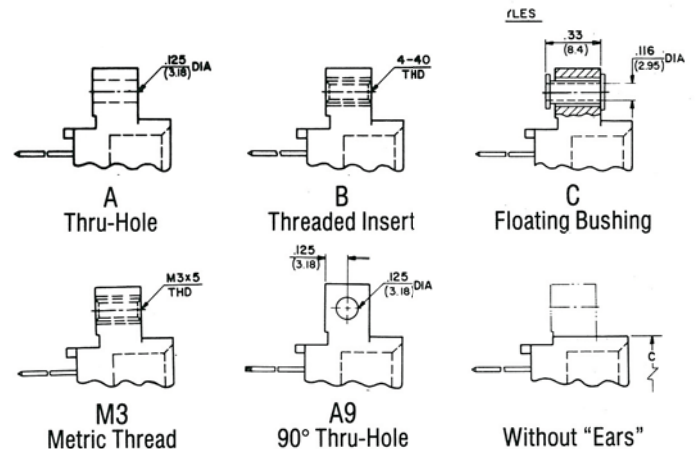
Series 6125-250 is described more comprehensively in our "6125" brochure



TERMINATIONS



MOUNTING STYLES



OTHER OPTIONS

Alternate molding profiles (flush mounting; without standoffs), alternate contact identification, 90° terminations (square and round), open-ended card slot (Series M6125-250), alternate contact finishes, between contact polarizing keys.

.156" (3.96 MM) CONTACT SPACING FOR 1/16(1.6) PRINTED CIRCUIT BOARD 12, 20, 30, 36, 44, 56, 86 CONTACTS

Q6156-140

CARDEDGE CONNECTORS
DUAL READOUT

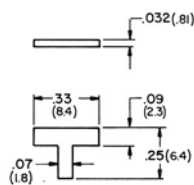
Series Q6156-140 is described more comprehensively
in our "Q6156-140" brochure

NO. OF CONTACTS	DIMENSIONS						
	A	B	C REF	D	E REF	F REF	G REF
6/6	.780 (19.81)	1.078 (27.38)	1.218 (30.94)	1.531 (38.89)	1.860 (47.24)	.328 (8.33)	.219 (5.56)
10/10	1.404 (35.66)	1.703 (43.26)	1.843 (46.81)	2.156 (54.76)	2.485 (63.12)	.328 (8.33)	.219 (5.56)
15/15	2.184 (55.47)	2.484 (63.09)	2.624 (66.65)	2.937 (74.60)	3.266 (82.96)	.328 (8.33)	.219 (5.56)
18/18	2.652 (67.36)	2.953 (75.01)	3.093 (78.56)	3.406 (86.51)	3.735 (94.87)	.328 (8.33)	.250 (6.35)
22/22	3.276 (83.21)	3.578 (90.88)	3.717 (94.41)	4.031 (102.39)	4.360 (110.74)	.328 (8.33)	.219 (5.56)
36/36	5.460 (138.68)	5.766 (146.46)	5.906 (150.01)	6.219 (157.96)	6.469 (164.31)	.438 (11.13)	.219 (5.56)
43/43	6.552 (166.42)	6.802 (172.77)	7.000 (177.80)	7.302 (185.47)	7.600 (193.04)	.438 (11.13)	.219 (5.56)

POLARIZING KEYS

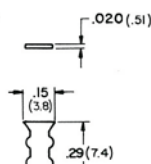
Between-Contact Position

In-Contact Position



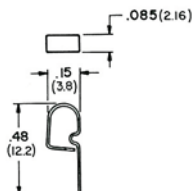
602-18

For sizes 6/6, 10/10,
15/15, 18/18, 22/22



602-41

For sizes 36/36, 43/43



602-14

For all sizes

MATERIALS AND FINISHES

Molded inserts: Phenolic molding compound, per MIL-M-14, type MFH.

Optional material: Diallyl phthalate, per MIL-M-14, type GDI-30F.

Contacts: Phosphor bronze, per QQ-B-750.

Contact finishes: Gold plate, per MIL-G-45204. Thicknesses:
0.000015" (0.4 micron).

30 - 0.000030" (0.8 micron) - Class 0.

50 - 0.000050" (1.3 microns) - Class 1. (MIL-SPEC approved)

Other finishes on request.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (volts rms, 60Hz):

At sea level: 2,300; At 70,000 feet: 550.

Voltages, test (volts rms, 60Hz):

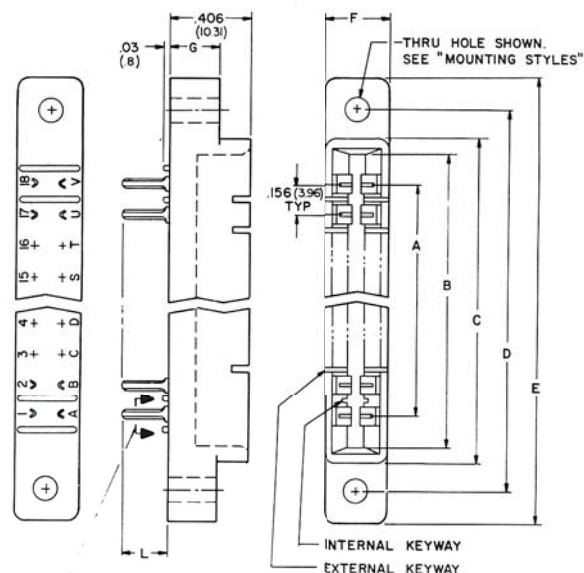
At sea level: 1,700; At 70,000 feet: 400.

Current rating: 5 amperes max. per contact.

PART NUMBER NOMENCLATURE

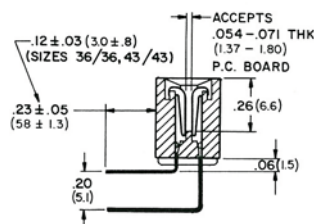
1	2	3	4	5	6
Q6156-140	-	44	Y25	A	- 30

- Series: **Q6156-140**.
- Number of contacts: **12 thru 86**.
- Termination: **X, Y14, Y19, Y25, Y41**.
- Mounting style: **A, B, C, A9**.
(Without "ears" is otherwise supplied).
- Optional diallyl phthalate molding: **GDF**.
(Phenolic is otherwise supplied).
- Optional gold thickness: **30, 50**.
(0.000015", 0.4 micron, is otherwise supplied).

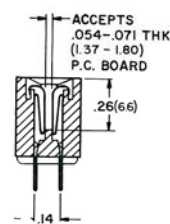


SECTION THRU TERMINAL
FITS INTO .051(1.30) DIA EYELET

L	ORDERING CODE
.14 (3.6)	Y14
.19 (4.8)	Y19
.25 (6.4)	Y25
.41 (10.4)	Y41

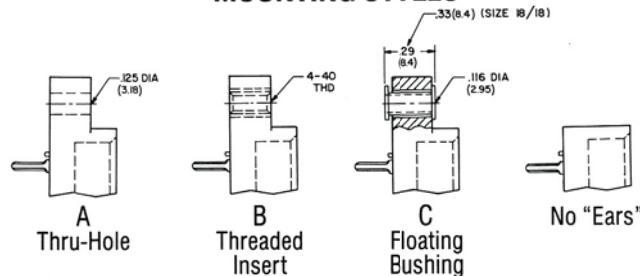


90° Terminations

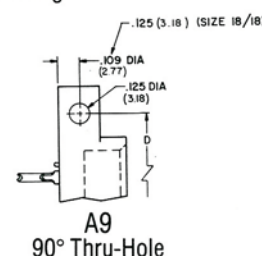
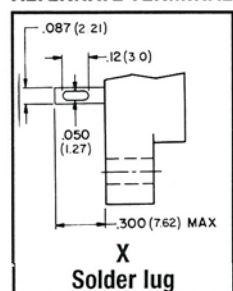


Section A-A

MOUNTING STYLES



ALTERNATE TERMINAL



MIM-22 MIL-C-28748/7 & /8

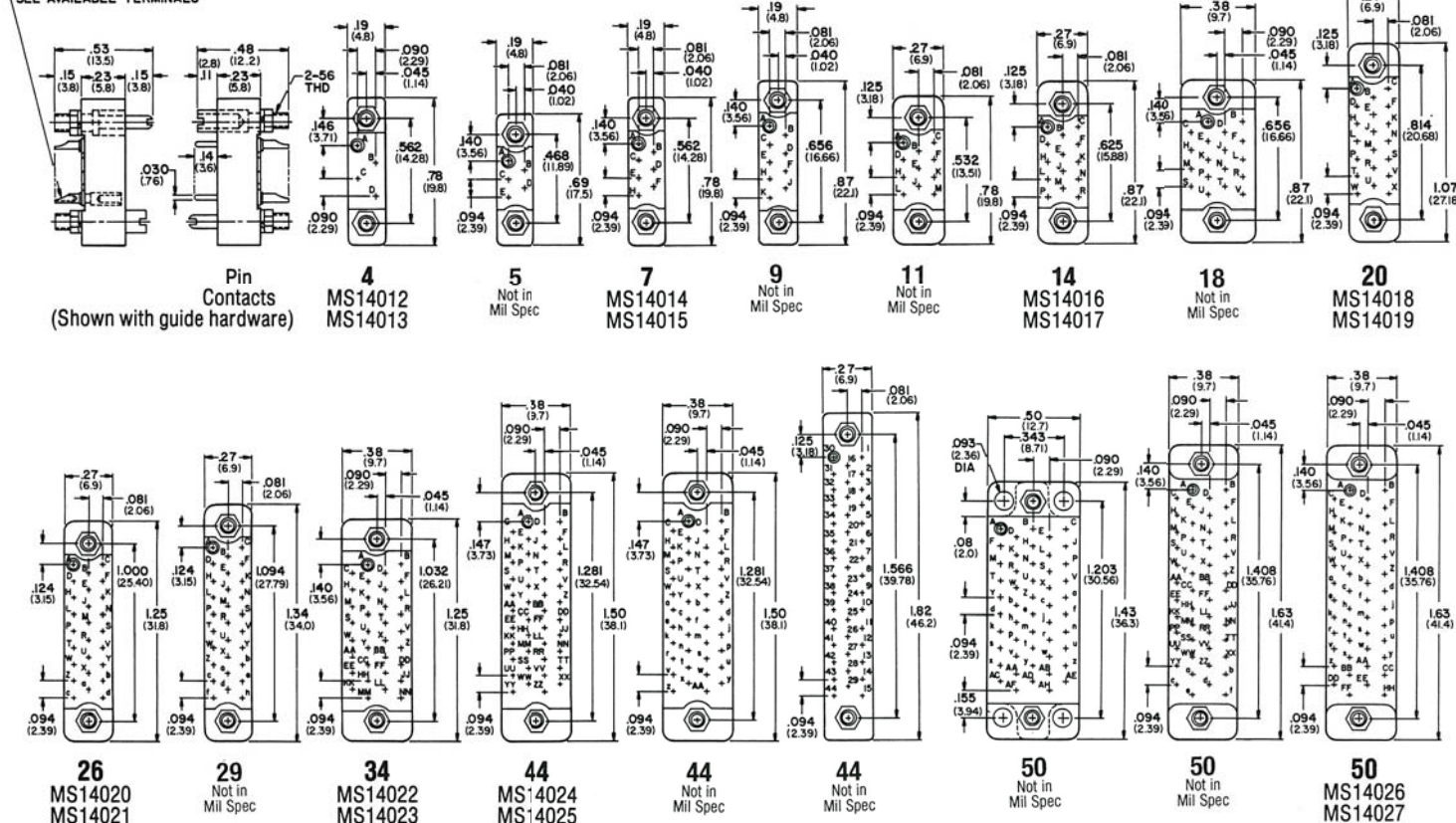
MICRO-MINIATURE RECTANGULAR CONNECTORS

SIZE 22 CONTACTS

4, 5, 7, 9, 11, 14, 18, 20, 26,
34, 44, 50, 75, 104 CONTACTS

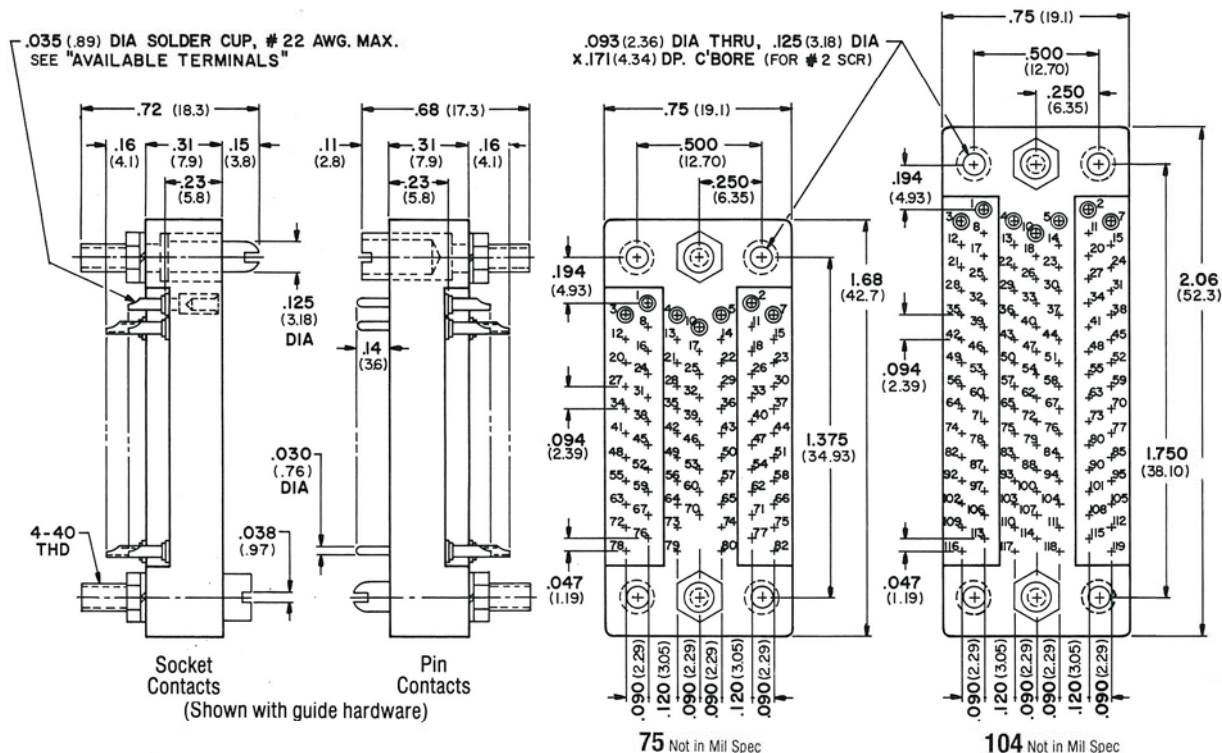
Series MM-22 is described more comprehensively in our "Micro-Miniature Rectangular Connectors Series MM-22" brochure.

.035 (.89) DIA SOLDER CUP # 22 AWG MAX.
SEE "AVAILABLE TERMINALS"



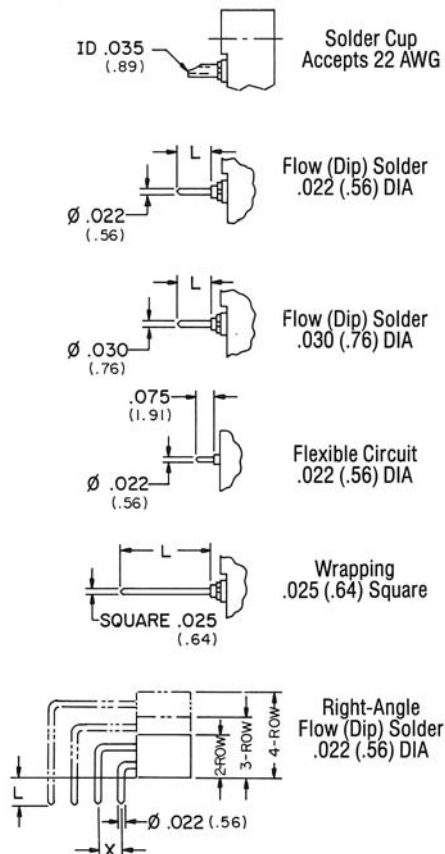
.035 (.89) DIA SOLDER CUP, # 22 AWG MAX.
SEE "AVAILABLE TERMINALS"

.093 (2.36) DIA THRU, .125 (3.18) DIA
X .171 (4.34) DP. C'BORE (FOR # 2 SCR)

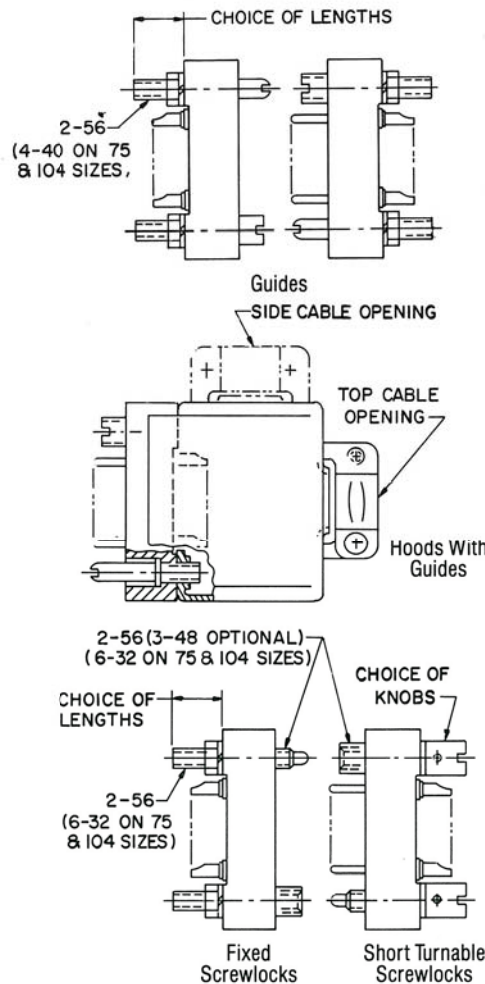


Views are wiring sides of pin contact connectors

TERMINALS



HARDWARE



MATERIALS AND FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.

Pin contact material: Phosphor bronze, per QQ-B-750.

Socket contact material:

Standard socket (open entry construction): Phosphor bronze per QQ-B-750. Optional beryllium copper per QQ-C-530.

Closed entry socket: Brass body per QQ-B-626; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, brackets): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 1,800 volts rms, 60 Hz.

Voltages, test (Sea level): 1,300 volts rms, 60Hz.

Contact size: No. 22, 0.030" (0.76mm) diameter.

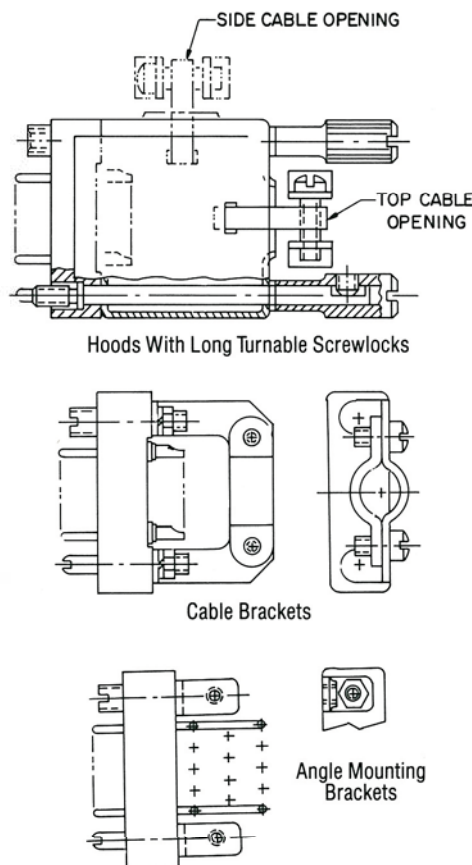
Wire size accommodated: No. 22 AWG.

Current rating: 5.0 amperes maximum per contact.

Insulation resistance: 5,000 megohms minimum.

Operating temperature: - 65°C to + 125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 22 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.



MIL P/N

M28748/7-A00F1A
M28748/7-B00F1A
M28748/7-C00F1A
M28748/7-D00F1A
M28748/7-E00F1A
M28748/7-F00F1A
M28748/7-G00F1A
M28748/7-H00F1A

M28748/7-A00G1A
M28748/7-B00G1A
M28748/7-C00G1A
M28748/7-D00G1A
M28748/7-E00G1A
M28748/7-F00G1A
M28748/7-G00G1A
M28748/7-H00G1A

M28748/7-A00S1A
M28748/7-B00S1A
M28748/7-C00S1A
M28748/7-D00S1A
M28748/7-E00S1A
M28748/7-F00S1A
M28748/7-G00S1A
M28748/7-H00S1A

M28748/7-A10L1A
M28748/7-B10L1A
M28748/7-C10L1A
M28748/7-D10L1A
M28748/7-E10L1A
M28748/7-F10L1A
M28748/7-G10L1A
M28748/7-H10L1A

M28748/7-G20L1A
M28748/7-H20L1A

M28748/8-A00F1A
M28748/8-B00F1A
M28748/8-C00F1A
M28748/8-D00F1A
M28748/8-E00F1A
M28748/8-F00F1A
M28748/8-G00F1A
M28748/8-H00F1A

M28748/8-A00G1A
M28748/8-B00G1A
M28748/8-C00G1A
M28748/8-D00G1A
M28748/8-E00G1A
M28748/8-F00G1A
M28748/8-G00G1A
M28748/8-H00G1A

M28748/8-A00S1A
M28748/8-B00S1A
M28748/8-C00S1A
M28748/8-D00S1A
M28748/8-E00S1A
M28748/8-F00S1A
M28748/8-G00S1A
M28748/8-H00S1A

M28748/8-A10L1A
M28748/8-B10L1A
M28748/8-C10L1A
M28748/8-D10L1A
M28748/8-E10L1A
M28748/8-F10L1A
M28748/8-G10L1A
M28748/8-H10L1A

M28748/8-G20L1A
M28748/8-H20L1A

CCC P/N

MSMM4-22PS25
MSMM7-22PS25
MSMM14-22PS25
MSMM20-22PS25
MSMM26-22PS25
MSMM34-22PS25
MSMM44-22PS25
MSMSMM50-22PS25

MSMM4-22PSS25
MSMM7-22PSS25
MSMM14-22PSS25
MSMM20-22PSS25
MSMM26-22PSS25
MSMM34-22PSS25
MSMM44-22PSS25
MSMSMM50-22PSS25

MSMM4-22PSK6
MSMM7-22PSK6
MSMM14-22PSK6
MSMM20-22PSK6
MSMM26-22PSK6
MSMM34-22PSK6
MSMM44-22PSK6
MSMSMM50-22PSK6

MSMM4-22PSK6H
MSMM7-22PSK6H
MSMM14-22PSK6H
MSMM20-22PSK6H
MSMM26-22PSK6H
MSMM34-22PSK6H
MSMM44-22PSK6H
MSMSMM50-22PSK6H

MSMM44-22PSK6H-1
MSMSMM50-22PSK6H-1

MSCMM4-22SS25
MSCMM7-22SS25
MSCMM14-22SS25
MSCMM20-22SS25
MSCMM26-22SS25
MSCMM34-22SS25
MSCMM44-22SS25
MSCMSMM50-22SS25

MSCMM4-22SSS25
MSCMM7-22SSS25
MSCMM14-22SSS25
MSCMM20-22SSS25
MSCMM26-22SSS25
MSCMM34-22SSS25
MSCMM44-22SSS25
MSCMSMM50-22SSS25

MSCMM4-22SSK6
MSCMM7-22SSK6
MSCMM14-22SSK6
MSCMM20-22SSK6
MSCMM26-22SSK6
MSCMM34-22SSK6
MSCMM44-22SSK6
MSCMSMM50-22SSK6

MSCMM4-22SSK6H
MSCMM7-22SSK6H
MSCMM14-22SSK6H
MSCMM20-22SSK6H
MSCMM26-22SSK6H
MSCMM34-22SSK6H
MSCMM44-22SSK6H
MSCMSMM50-22SSK6H

MSCMM44-22SSK6H-1
MSCMSMM50-22SSK6H-1

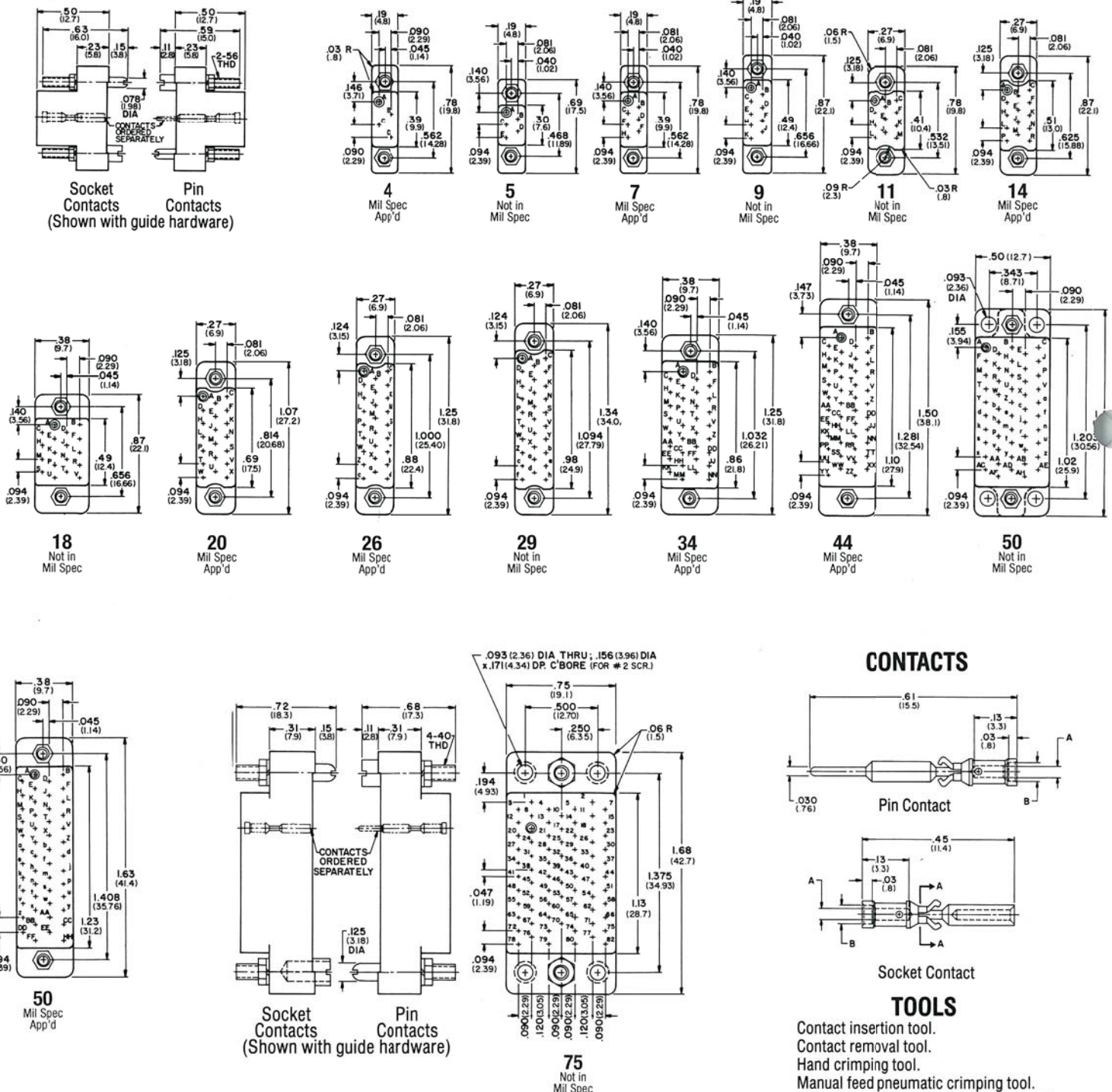
MMM MIL-C-28748/13 & /14

MICRO-MINIATURE REMOVABLE WIRE-CRIMP

SIZE 22 CONTACTS

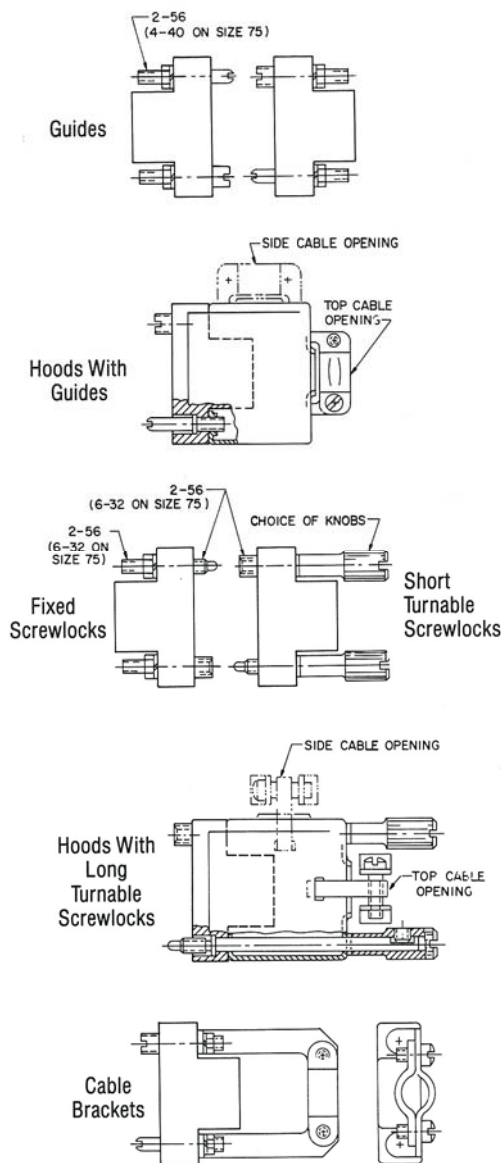
4, 5, 7, 9, 11, 14, 18, 20, 26,
29, 34, 44, 50, 75 CONTACTS

Series MMM is described more comprehensively in our "MMM" brochure.



Views are wiring sides of pin contact connectors

HARDWARE



MATERIALS & FINISHES

Molded Inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.
Pin contact material: Leaded commercial bronze
Socket contact material: Leaded commercial bronze, beryllium copper pressure member per QQ-C-533.
Contact size: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.
Accessories: (hardware, hoods, brackets): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 2,000 volts rms, 60 Hz.
Voltages, test (Sea level): 1,325 volts rms, 60 Hz.
Contact size: No. 22, 0.030" (0.76mm) diameter.
Wire size accommodated: No. 22 AWG.
Current rating: 5.0 amperes maximum per contact.
Insulation resistance: 5,000 megohms minimum.
Operating temperature: - 65°C to + 125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 22 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

MMM

MIL P/N

M28748/13-A00F1A
M28748/13-B00F1A
M28748/13-C00F1A
M28748/13-D00F1A
M28748/13-E00F1A
M28748/13-F00F1A
M28748/13-G00F1A
M28748/13-H00F1A

CCC P/N

MSMMM4PS/2A22-61
MSMMM7PS/2A22-61
MSMMM14PS/2A22-61
MSMMM20PS/2A22-61
MSMMM26PS/2A22-61
MSMMM34PS/2A22-61
MSMMM44PS/2A22-61
MSMSMMM50PS/2A22-61

M28748/13-A00G1A
M28748/13-B00G1A
M28748/13-C00G1A
M28748/13-D00G1A
M28748/13-E00G1A
M28748/13-F00G1A
M28748/13-G00G1A
M28748/13-H00G1A

MSMMM4P/2A22-61
MSMMM7P/2A22-61
MSMMM14P/2A22-61
MSMMM20P/2A22-61
MSMMM26P/2A22-61
MSMMM34P/2A22-61
MSMMM44P/2A22-61
MSMSMMM50P/2A22-61

M28748/13-A00S1A
M28748/13-B00S1A
M28748/13-C00S1A
M28748/13-D00S1A
M28748/13-E00S1A
M28748/13-F00S1A
M28748/13-G00S1A
M28748/13-H00S1A

MSMMM4PSK/2A22-61
MSMMM7PSK/2A22-61
MSMMM14PSK/2A22-61
MSMMM20PSK/2A22-61
MSMMM26PSK/2A22-61
MSMMM34PSK/2A22-61
MSMMM44PSK/2A22-61
MSMSMMM50PSK/2A22-61

M28748/13-A10L1A
M28748/13-B10L1A
M28748/13-C10L1A
M28748/13-D10L1A
M28748/13-E10L1A
M28748/13-F10L1A
M28748/13-G10L1A
M28748/13-H10L1A

MSMMM4PSKH/2A22-61
MSMMM7PSKH/2A22-61
MSMMM14PSKH/2A22-61
MSMMM20PSKH/2A22-61
MSMMM26PSKH/2A22-61
MSMMM34PSKH/2A22-61
MSMMM44PSKH/2A22-61
MSMSMMM50PSKH/2A22-61

M28748/13-G20L1A
M28748/13-H20L1A

MSMMM44PSKH1/2A22-61
MSMSMMM50PSKH1/2A22-61

M28748/14-A00F1A
M28748/14-B00F1A
M28748/14-C00F1A
M28748/14-D00F1A
M28748/14-E00F1A
M28748/14-F00F1A
M28748/14-G00F1A
M28748/14-H00F1A

MSMMM4SS/2A22
MSMMM7SS/2A22
MSMMM14SS/2A22
MSMMM20SS/2A22
MSMMM26SS/2A22
MSMMM34SS/2A22
MSMMM44SS/2A22
MSMSMMM50SS/2A22

M28748/14-A00G1A
M28748/14-B00G1A
M28748/14-C00G1A
M28748/14-D00G1A
M28748/14-E00G1A
M28748/14-F00G1A
M28748/14-G00G1A
M28748/14-H00G1A

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MSMMM26S/2A22
MSMMM34S/2A22
MSMMM44S/2A22
MSMSMMM50S/2A22

M28748/14-A00S1A
M28748/14-B00S1A
M28748/14-C00S1A
M28748/14-D00S1A
M28748/14-E00S1A
M28748/14-F00S1A
M28748/14-G00S1A
M28748/14-H00S1A

MSMMM4SSK/2A22
MSMMM7SSK/2A22
MSMMM14SSK/2A22
MSMMM20SSK/2A22
MSMMM26SSK/2A22
MSMMM34SSK/2A22
MSMMM44SSK/2A22
MSMSMMM50SSK/2A22

M28748/14-A10L1A
M28748/14-B10L1A
M28748/14-C10L1A
M28748/14-D10L1A
M28748/14-E10L1A
M28748/14-F10L1A
M28748/14-G10L1A
M28748/14-H10L1A

MSMMM4SSKH/2A22
MSMMM7SSKH/2A22
MSMMM14SSKH/2A22
MSMMM20SSKH/2A22
MSMMM26SSKH/2A22
MSMMM34SSKH/2A22
MSMMM44SSKH/2A22
MSMSMMM50SSKH/2A22

M28748/14-G20L1A
M28748/14-H20L1A

MSMMM44SSKH1/2A22
MSMSMMM50SSKH1/2A22

CONTACTS ONLY

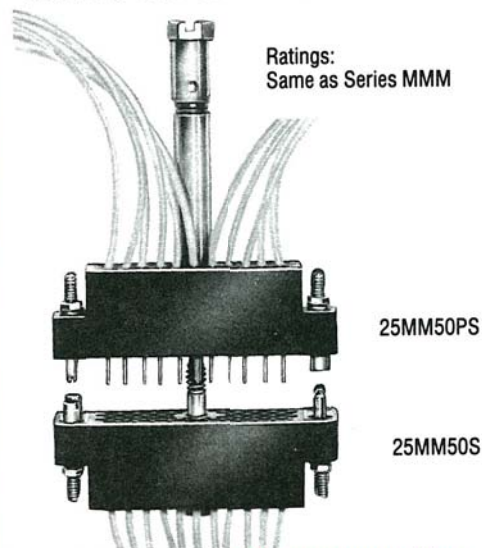
M39029/34-440
M39029/35-441

MS2500-P2A22-61
MS2500-S2A22

25MM

CENTER SCREWLOCK

MICRO-MINIATURE REMOVABLE CONTACTS WIRE-CRIMP TERMINATIONS 50, 76, 100 & 200 CONTACTS



Series 25MM is described more comprehensively in our "25MM" brochure.

25SMM

STRIP CONNECTORS

MICRO-MINIATURE REMOVABLE CONTACTS WIRE-CRIMP TERMINATIONS 2 THRU 21 CONTACTS



Ratings: Same as Series MMM

Series 25SMM is described more comprehensively in our "25SMM" brochure.

SM-20

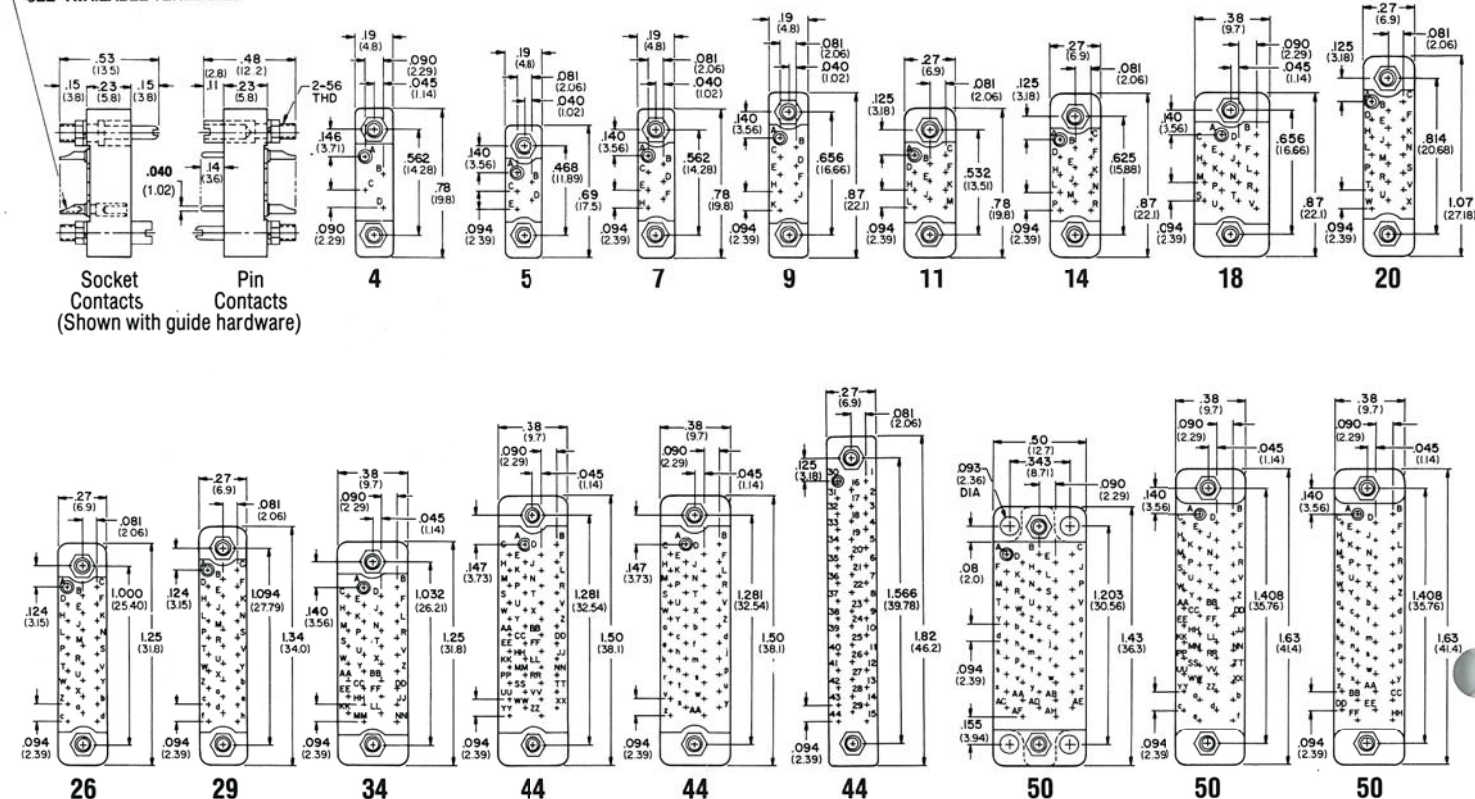
MICRO-MINIATURE RECTANGULAR CONNECTORS

SMALLEST CONNECTOR AVAILABLE FOR NO. 20 AWG WIRE SIZE 20 CONTACTS

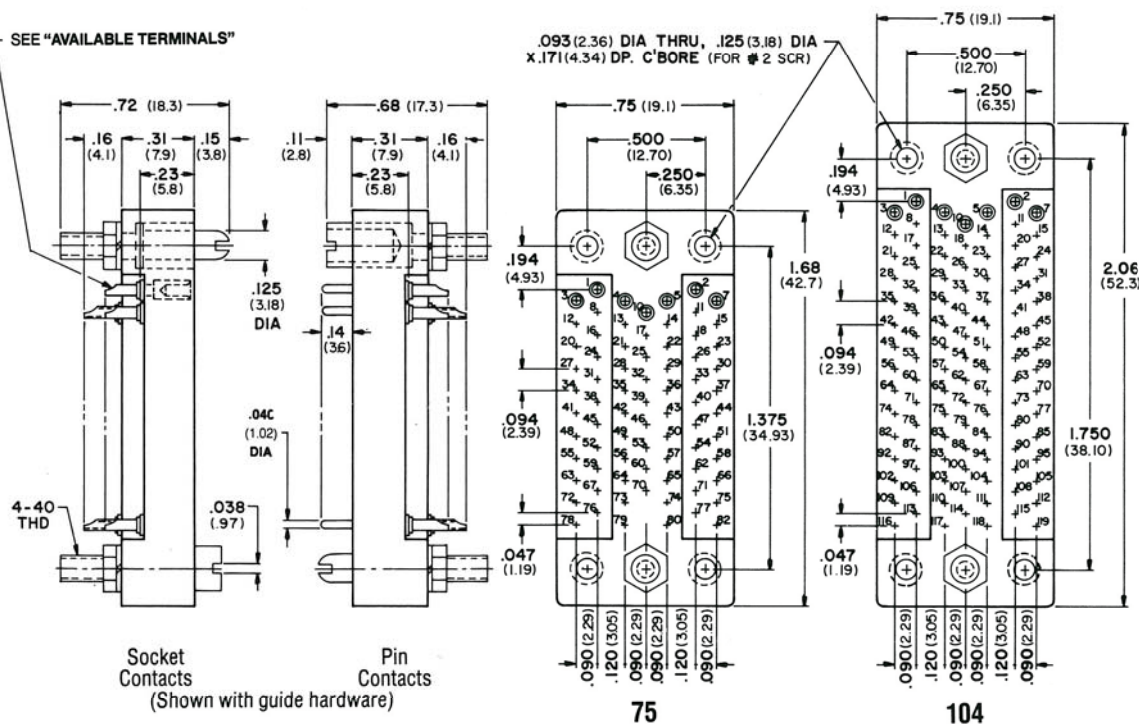
4, 5, 7, 9, 11, 14, 18, 20, 26,
34, 44, 50, 75, 104 CONTACTS

Series SMM-20 is described more comprehensively in our
"Micro-Miniature Rectangular Connectors Series SMM-20"
brochure

SEE "AVAILABLE TERMINALS"

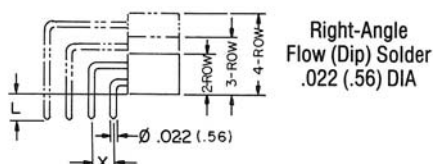
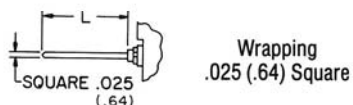
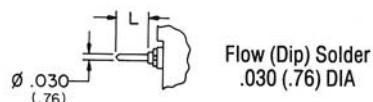
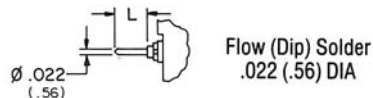
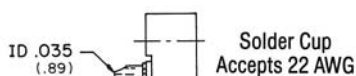


SEE "AVAILABLE TERMINALS"



Views are wiring sides of pin contact connectors

TERMINALS



MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.
Pin contact material: Brass per QQ-B-626

Socket contact material: Brass body per QQ-B-626; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, brackets): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 1,800 volts rms, 60 Hz.

Voltages, test (Sea level): 1,300 volts rms, 60 Hz.

Contact size: No. 20, 0.040" (1.02mm) diameter.

Wire size accommodated: No. 22 AWG; No. 20 AWG for large diameter solder cup.

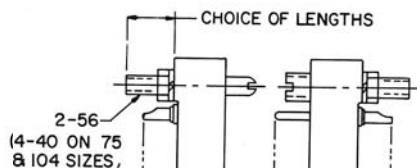
Current rating: 7.5 amperes maximum per contact.

Insulation resistance: 5,000 megohms minimum.

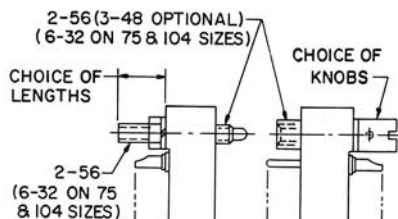
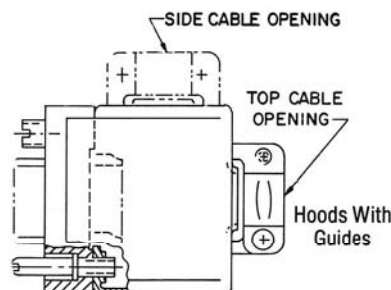
Operating temperature: -65°C to +125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

HARDWARE

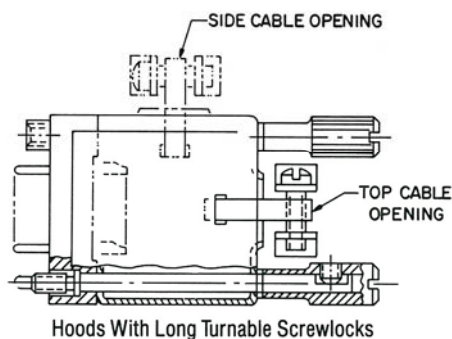


Guides

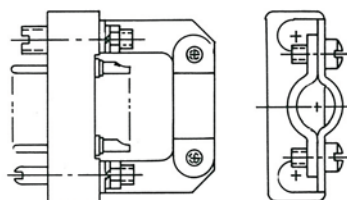


Fixed Screwlocks

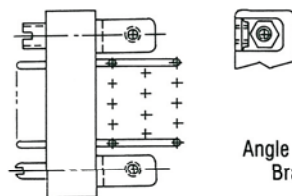
Short Turnable Screwlocks



Hoods With Long Turnable Screwlocks

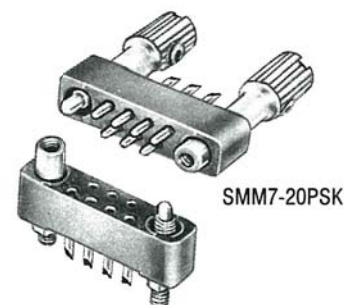


Cable Brackets



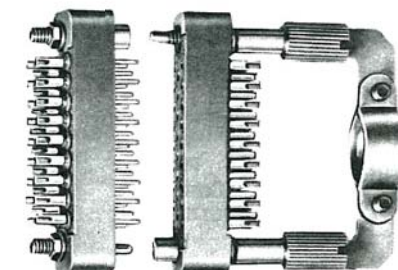
Angle Mounting Brackets

SMM-20



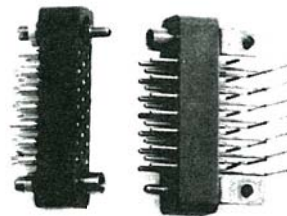
SMM7-20PSK

CSMM7-20SS



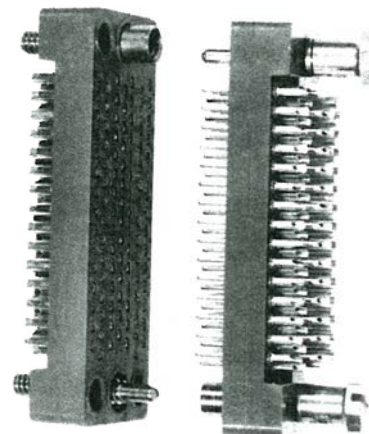
SMM29-20PS

CSMM29-20SSK-B88



CSMM20-20SSL

SMM20-20PD9104S-MB

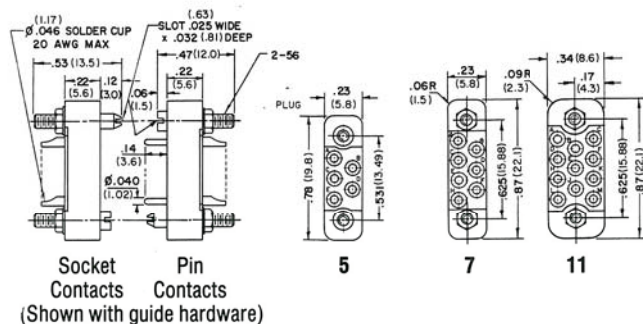


CSMM104-20SS

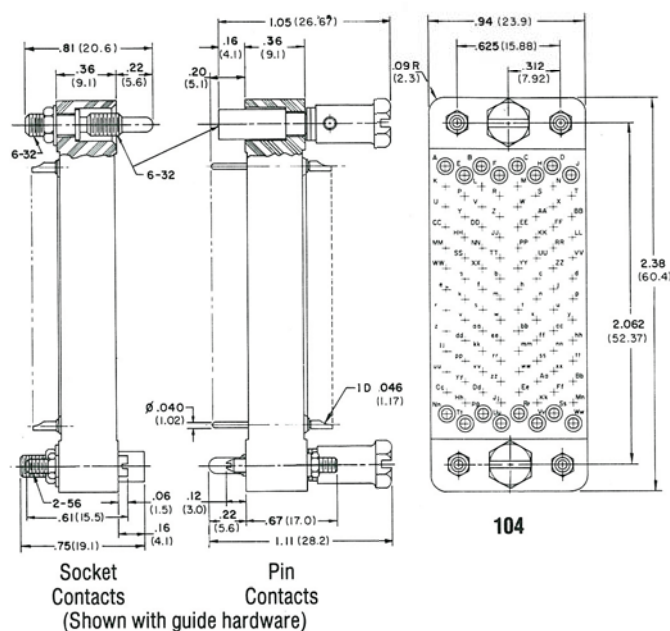
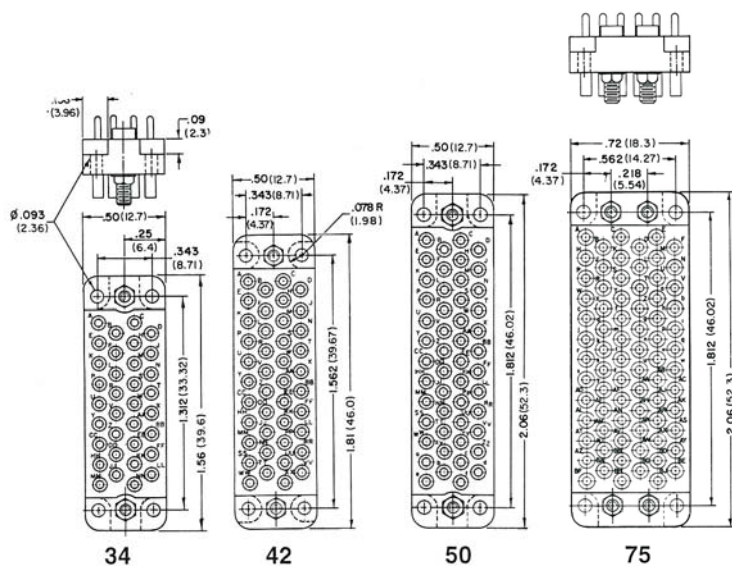
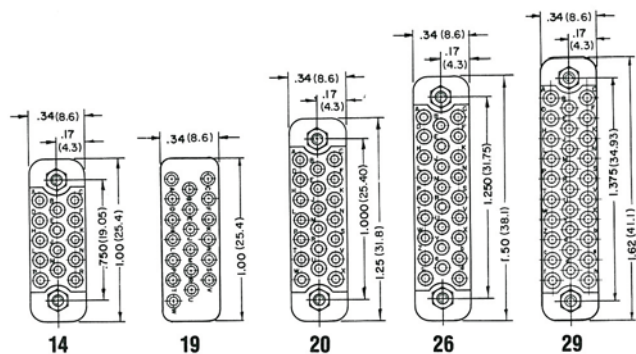
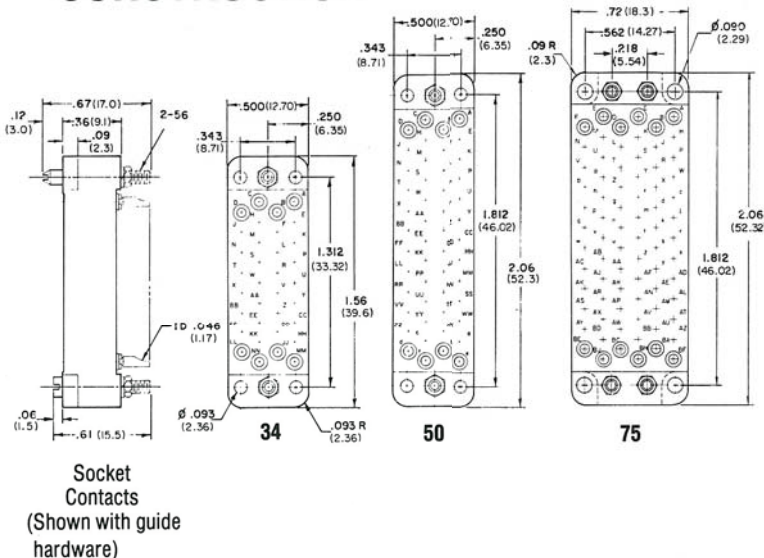
SMM104-20PSK

SIZE 20 CONTACTS

Views are wiring sides of pin contact connectors

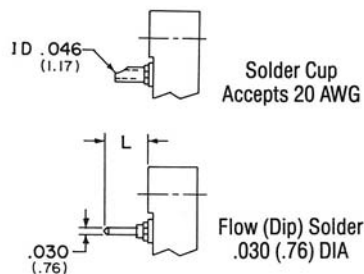


RUGGEDIZED CONSTRUCTION



Series SM-20 is described more comprehensively in our "SM-20" brochure.

TERMINALS



MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.

Pin contact material: Brass per QQ-B-626.

Socket contact material:

Standard socket (open entry construction): Phosphor bronze per QQ-B-750.

Closed entry socket: Brass body per QQ-B-626; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, etc.): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 1,300 volts rms, 60 Hz.

Voltages, test (Sea level): 875 volts rms, 60 Hz.

Contact size: No. 20, 0.040" (1.02mm) diameter.

Wire size accommodated: No. 20 AWG.

Current rating: 7.5 amperes maximum per contact.

Insulation resistance: 5,000 megohms minimum.

Operating temperature: -65°C to +125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

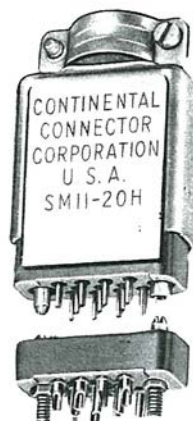
GUIDES

SM7-20S



SM7-20P

Hoods With Guides

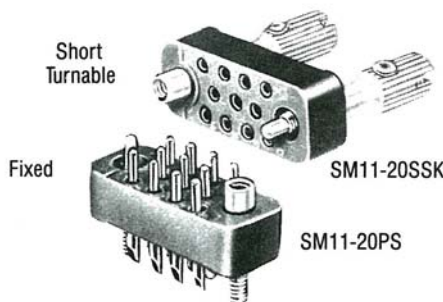


SM7-20PH

SM7-20S

SCREWLOCKS

Fixed & Short Turnable

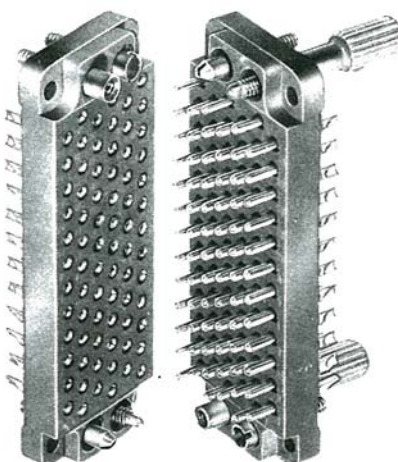


SM11-20SSK

SM11-20PS

Fixed

Short Turnable

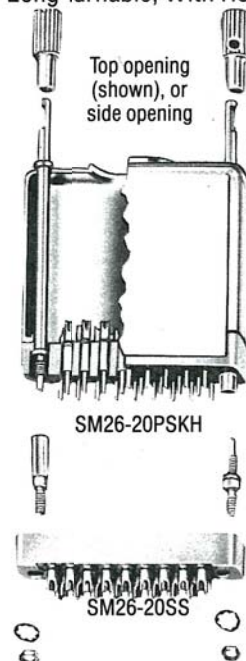


SM75-20SS

SM75-20PSK

SCREWLOCKS

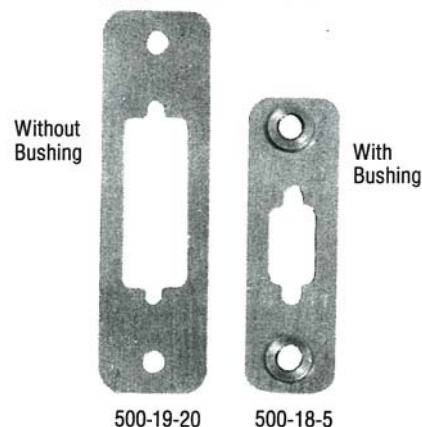
Long Turnable, With Hood



SM26-20PSKH

SM26-20SS

MOUNTING PLATES

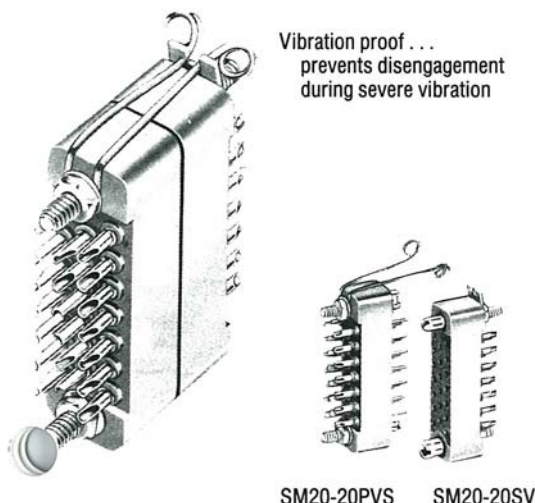


500-19-20

500-18-5

SPRING LOCKS

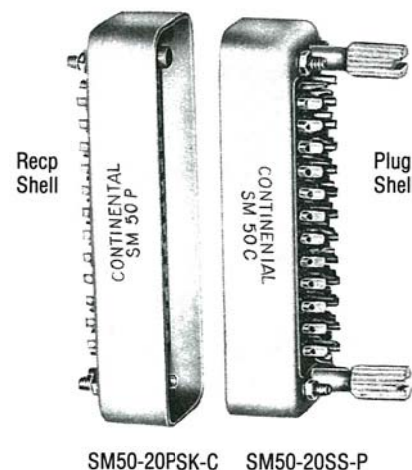
Vibration proof . . . prevents disengagement during severe vibration



SM20-20PVS

SM20-20SV

PROTECTIVE SHELLS



SM50-20PSK-C

SM50-20SS-P

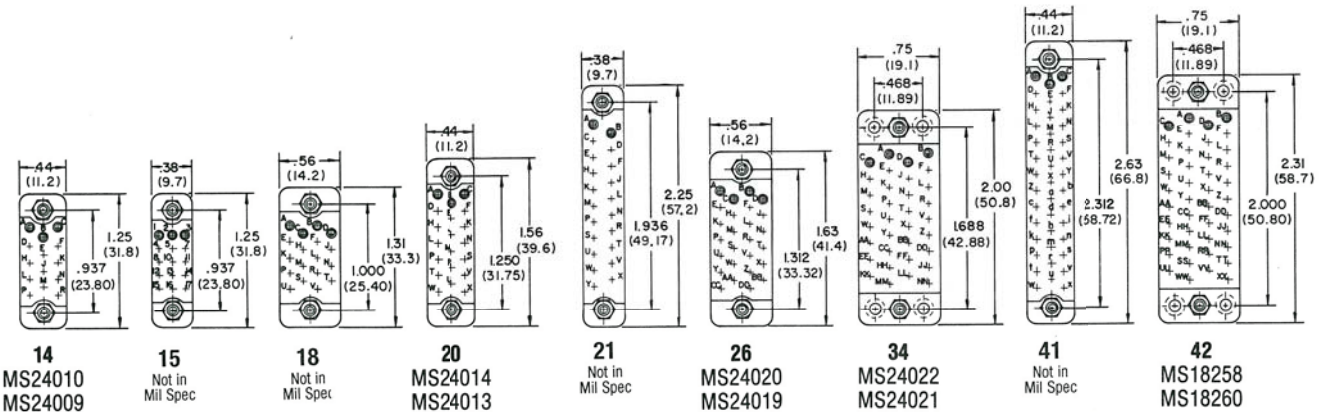
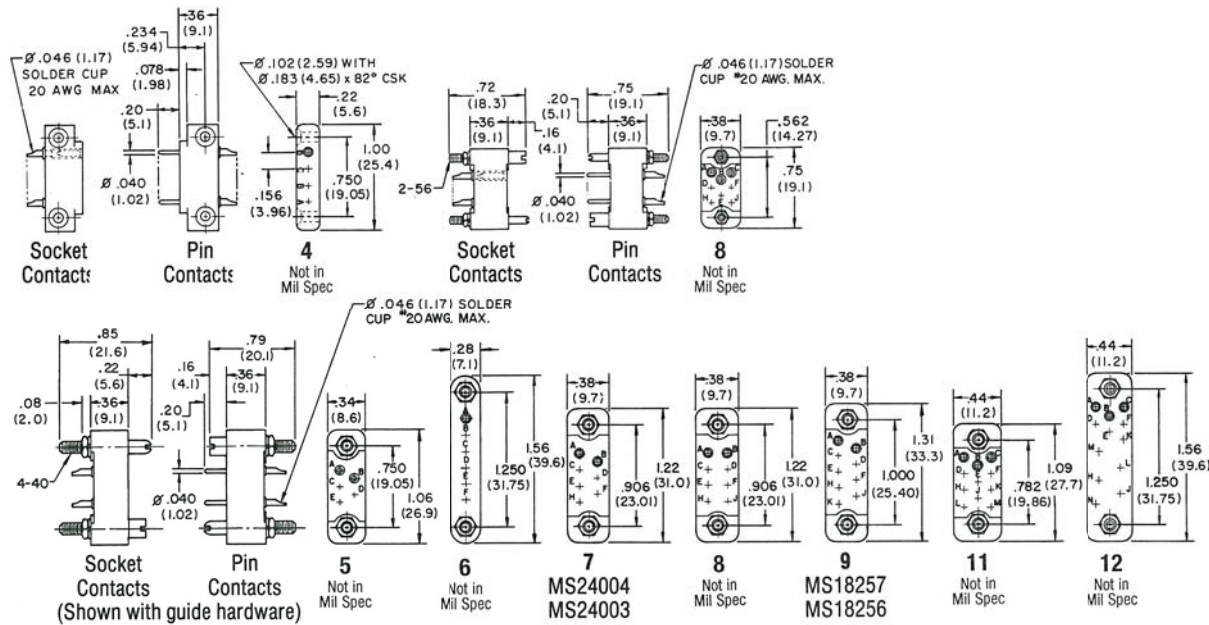
20 MIL-C-28748/5 & /6

MINIATURE RECTANGULAR CONNECTORS

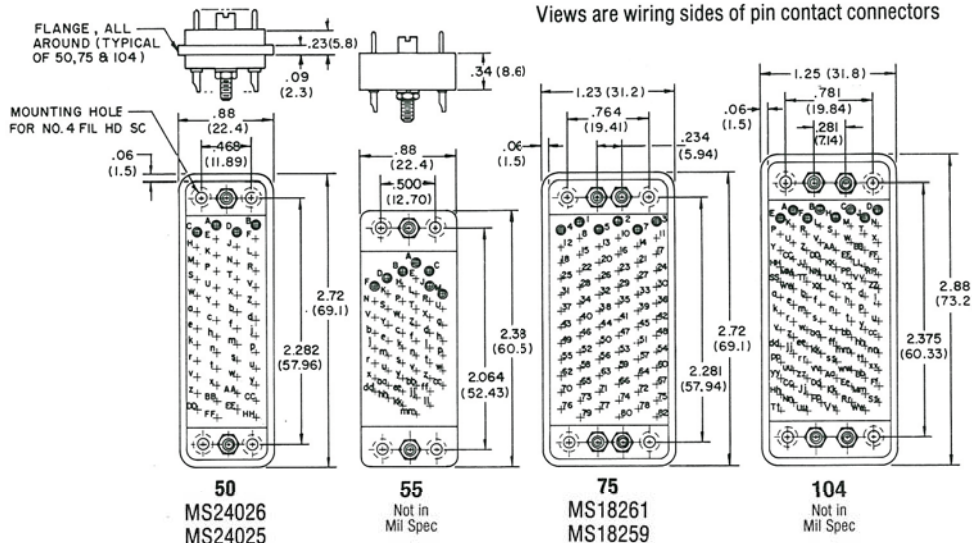
SIZE 20 CONTACTS

4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 18, 20,
21, 26, 34, 41, 42, 50, 55, 75,
104 CONTACTS

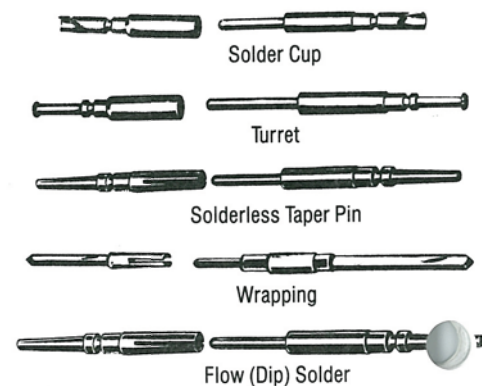
Series 20 is described more comprehensively in our "Series 20 Rectangular Connectors" brochure.



Views are wiring sides of pin contact connectors



TERMINALS



MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.

Pin contact material: Brass per QQ-B-626.

Socket contact material:

Standard socket (open entry construction): Phosphor bronze per QQ-B-750.

Closed entry socket: Brass body per QQ-B-626; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, etc.): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 3,000 volts rms, 60 Hz.

Voltages, test (Sea level): 2,000 volts rms, 60 Hz.

Contact size: No. 20, 0.040" (1.02mm) diameter.

Wire size accommodated: No. 20 AWG.

Current rating: 7.5 amperes maximum per contact.

Insulation resistance: 5,000 megohms minimum.

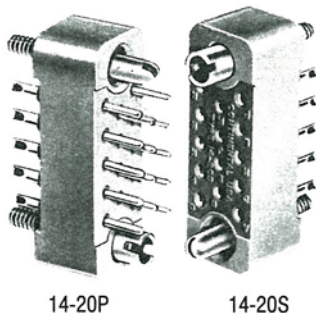
Operating temperature: -65°C to +125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

QUALIFIED TO MIL-C-28748/5, /6

M28748/6-A thru J	M28748/5-A thru J	Government Designation and Insert
0 1 thru 9 A and B	0 1 thru 9 A and B	Shield or Retaining Plate
0 A thru H J thru R	0 A thru H J thru R	Shell
F, G, L, O, S	F, G, L, O, S	Jack screws and Guide Pins
1A	1A	Contact

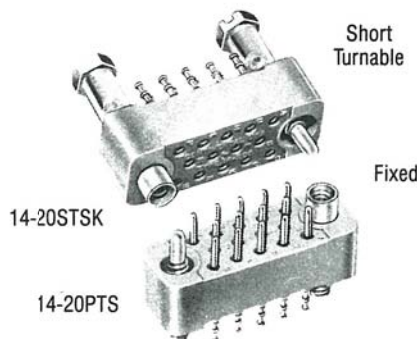
GUIDES



14-20P

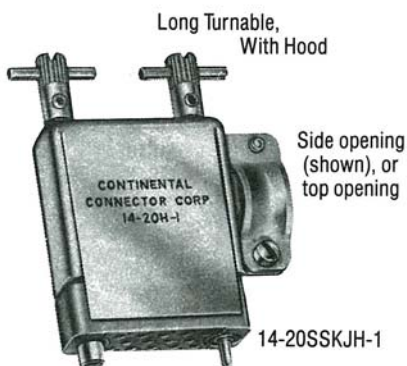
14-20S

SCREWLOCKS



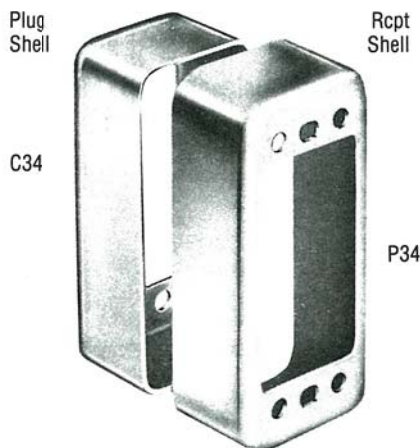
14-20STS

14-20PTS



14-20SSKJH-1

PROTECTIVE SHELLS



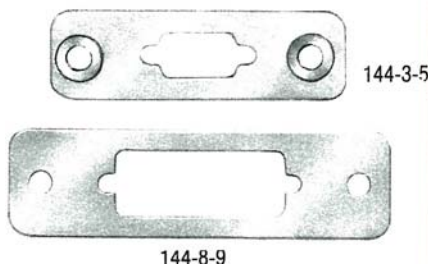
Plug Shell

Rcpt Shell

C34

P34

MOUNTING PLATES



144-3-5

144-8-9

MINIATURE HEXAGONAL

1, 4, 5, 7, 9, 10 CONTACTS

Size 20 contacts • 7.5 Amps • 20 AWG wire



C10-20PVS

C10-20SVRN

C38C

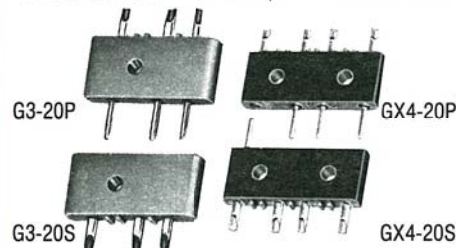
Features fast and easy disconnect capability combined with safety provisions against disconnect under vibration and shock. Mating bosses and one-way contact arrangements eliminate possibility of incorrect engagement. Vibration spring with matching detent action lockspring, clamps and locks plug and socket against accidental separation.

Series C20 is described more comprehensively in our "Series 20" brochure.

MINIATURE SIDE-MOUNT

2, 3, 4, 6 CONTACTS SIDE-BY-SIDE "STACKABLE"

Size 20 contacts • 7.5 Amps • 20 AWG wire



G3-20P

G3-20S

GX4-20P

GX4-20S

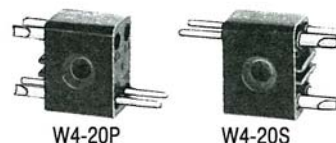
These unique reverse pin and socket connectors are especially suitable for applications where space is limited. Moldings have one or two holes for convenient space-saving side mounting, or side-by-side stacking.

Series G20 is described more comprehensively in our "Series 20" brochure.

MINIATURE SIDE-MOUNT

2 & 4 CONTACTS SIDE-BY-SIDE "STACKABLE"

Size 20 contacts • 7.5 Amps • 20 AWG wire



W4-20P

W4-20S

Series W20 is described more comprehensively in our "Series 20" brochure.

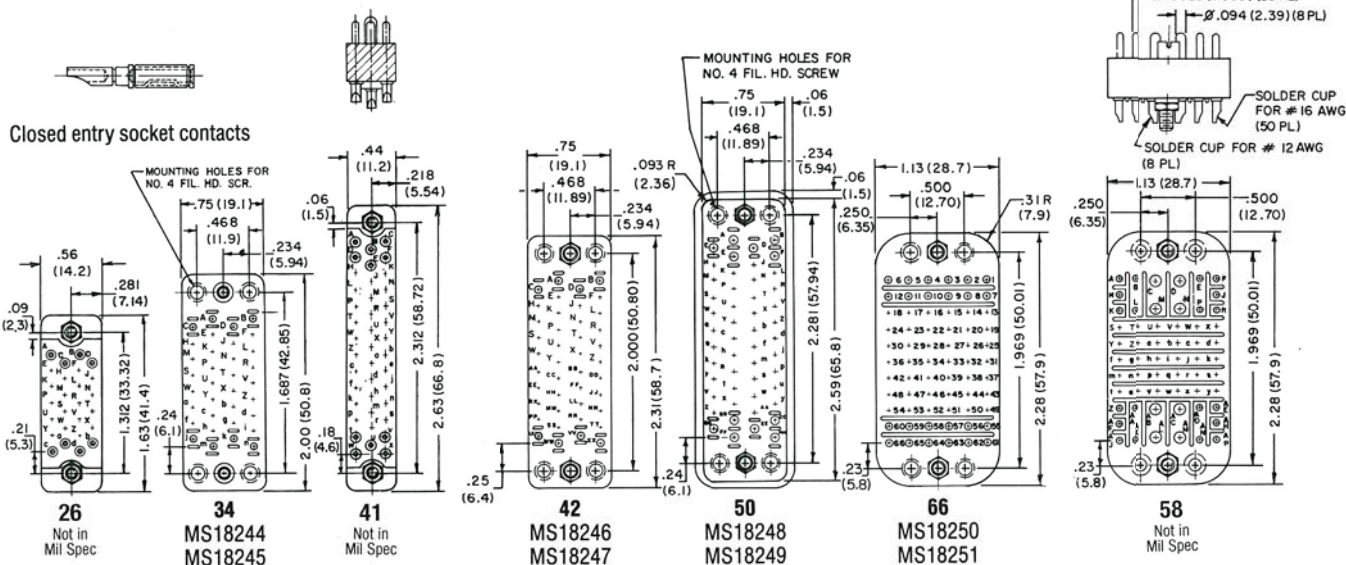
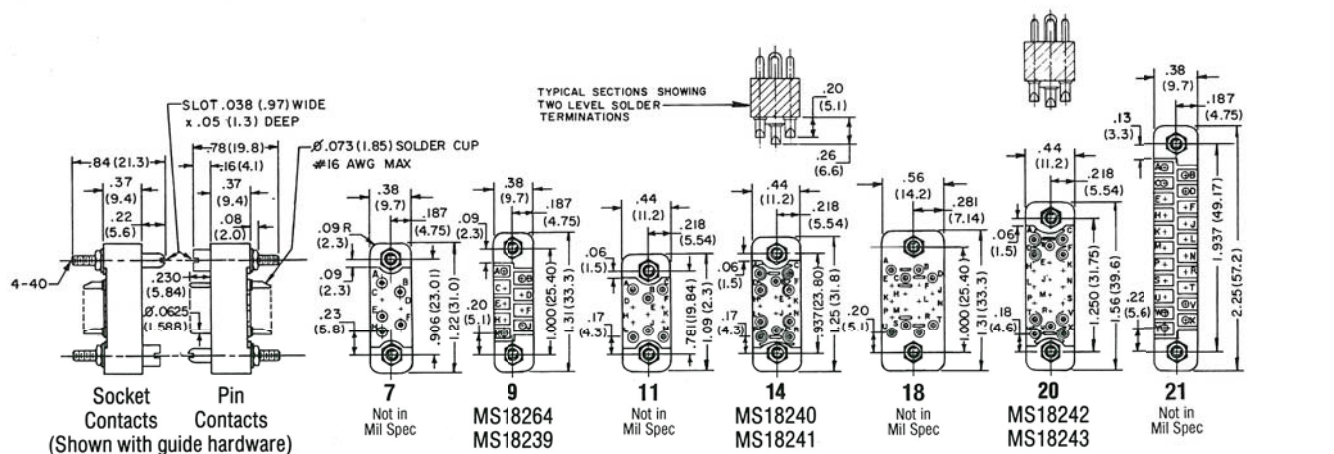
250-16 MIL-C-28748/1 & /2

MINIATURE RECTANGULAR POWER CONNECTORS

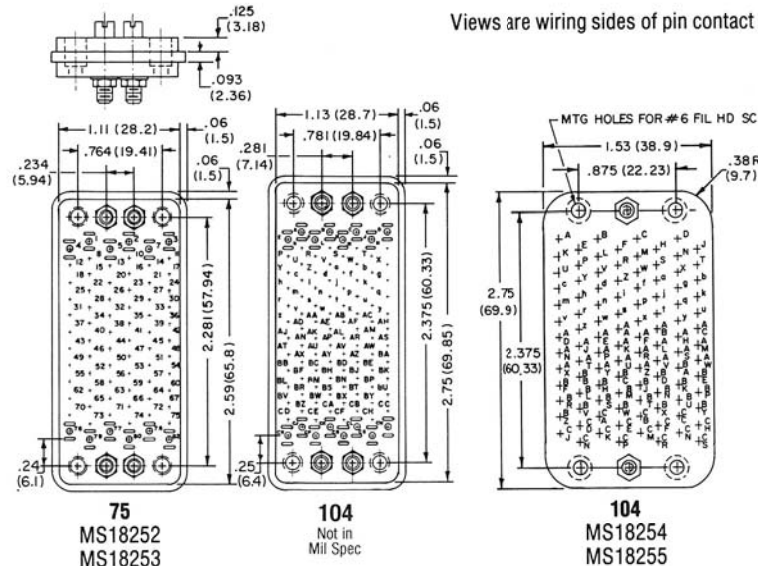
7, 9, 11, 14, 18, 20, 21, 26, 34, 41, 42,
50, 58, 66, 75, 104, 130 CONTACTS

Series 250-16 is described more comprehensively in our "Series 250" brochure.

SIZE 16 CONTACTS



Views are wiring sides of pin contact connectors



TERMINALS

Solder Cup (Accepts 16 AWG)
Flow (Dip) Solder, .030 (.76) DIA
Flow (Dip) Solder, .040 (1.02) DIA
Turret

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, green.

Pin contact material: Brass per QQ-B-626.

Socket contact material: Brass body per QQ-B-626; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, brackets): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 2,000 volts rms, 60 Hz.

Voltages, test (Sea level): 1,350 volts rms, 60 Hz.

Contact size: No. 16, 0.0625" (1.588mm) diameter.

Wire size accommodated: No. 16 AWG.

Current rating: 13 amperes maximum per contact.

Insulation resistance: 5,000 megohms minimum.

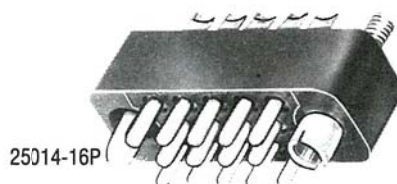
Operating temperature: - 65°C to + 125°C.

Connectors meet all other requirements of MIL-C-28748 for contact size 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

QUALIFIED TO MIL-C-28748/1, /2

M28748/2-A thru J	M28748/1-A thru J	Government Designation and Insert
0 1 thru 9 A and B	0 1 thru 9 A and B	Shield or Retaining Plate
0 A thru H J thru R	0 A thru H J thru R	Shell
F, G, L, O, S	F, G, L, O, S	Jackscrews and Guide Pins
1A	1A	Contact

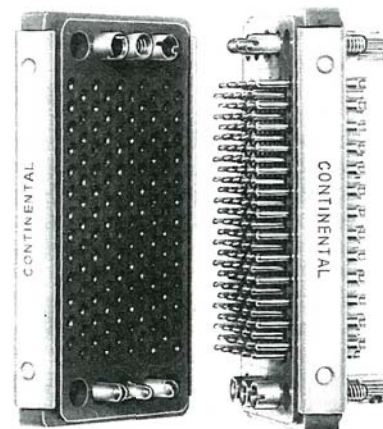
GUIDES



SCREWLOCKS

Fixed

Short Turnable



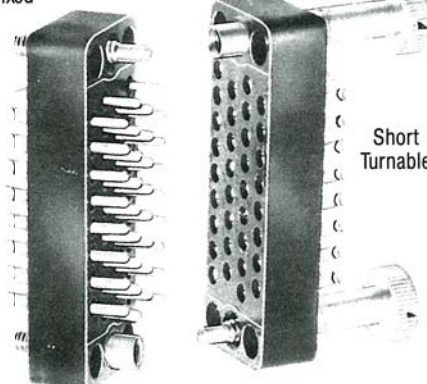
250130-16SS

250130-16PSK

SCREWLOCKS

Fixed/Short Turnable/Long Turnable

Fixed



25034-16PS

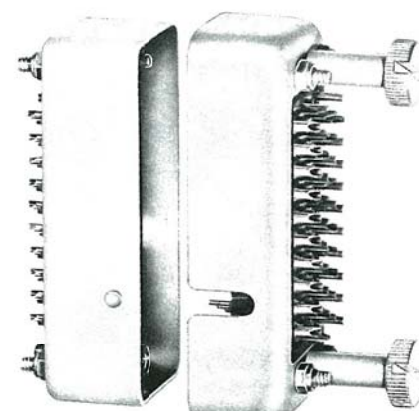
25034-16SSKM

Short Turnable

PROTECTIVE SHELLS

Plug Shell

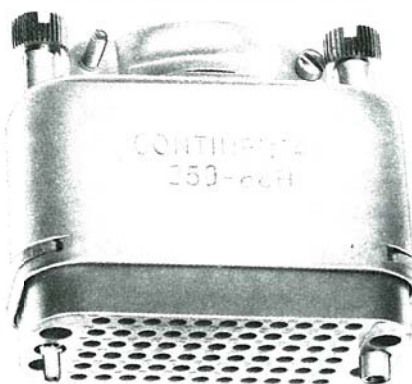
Rcpt Shell



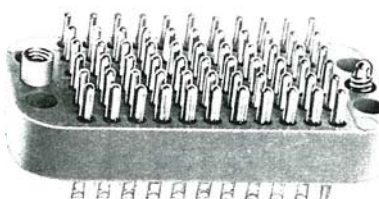
25042-16SS-C

25042-16PSK-P

Long Turnable, With Hood
Top opening (shown), or side opening

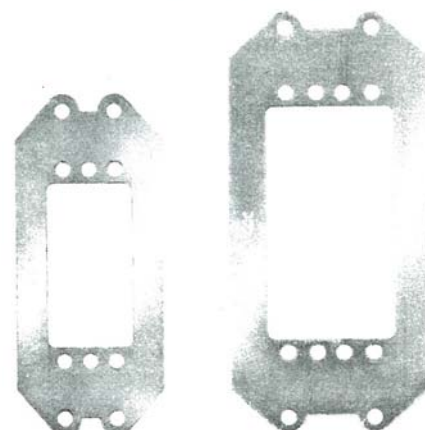


25066-16SSKH



25066-16PS

MOUNTING PLATES



144-5-34

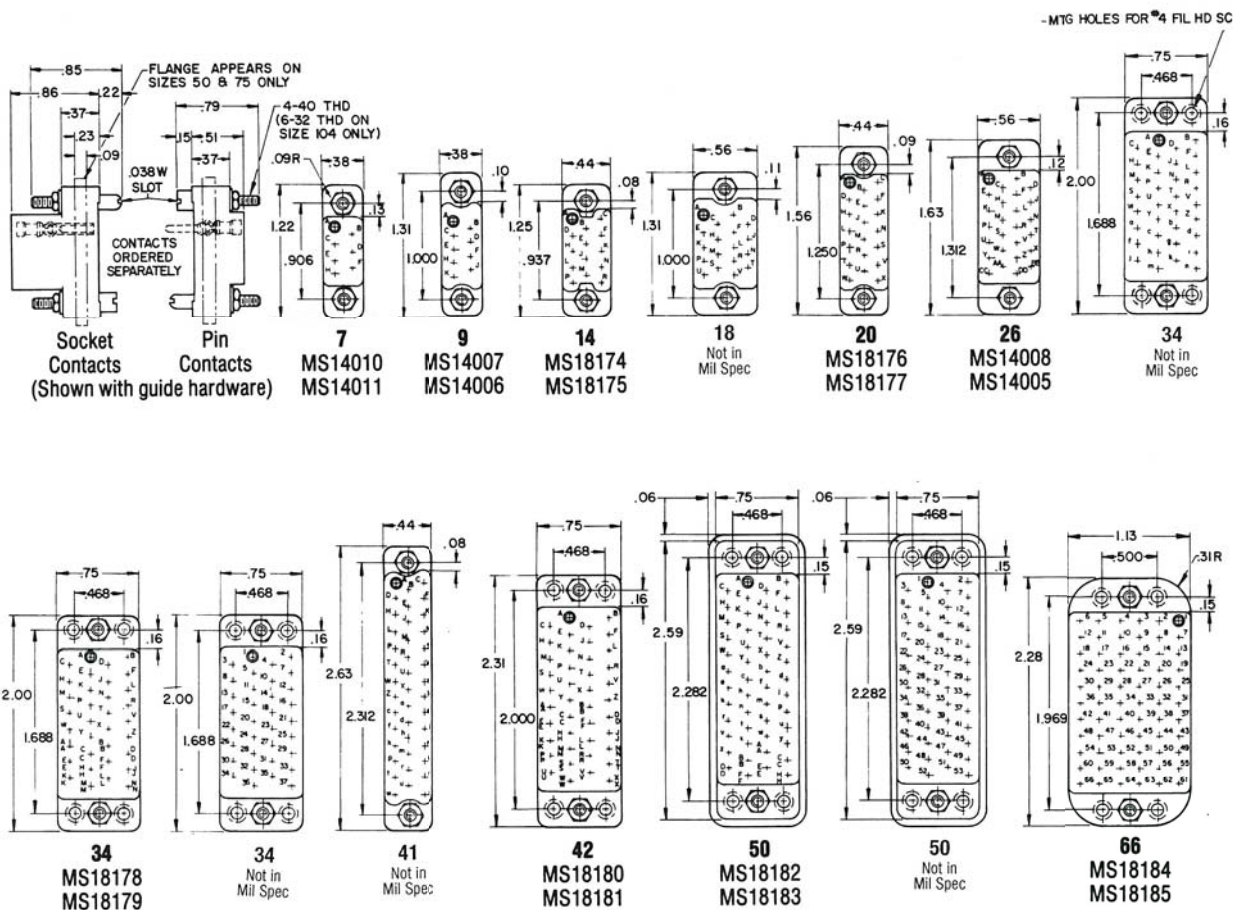
144-5-75

MINIATURE REMOVABLE WIRE-CRIMP

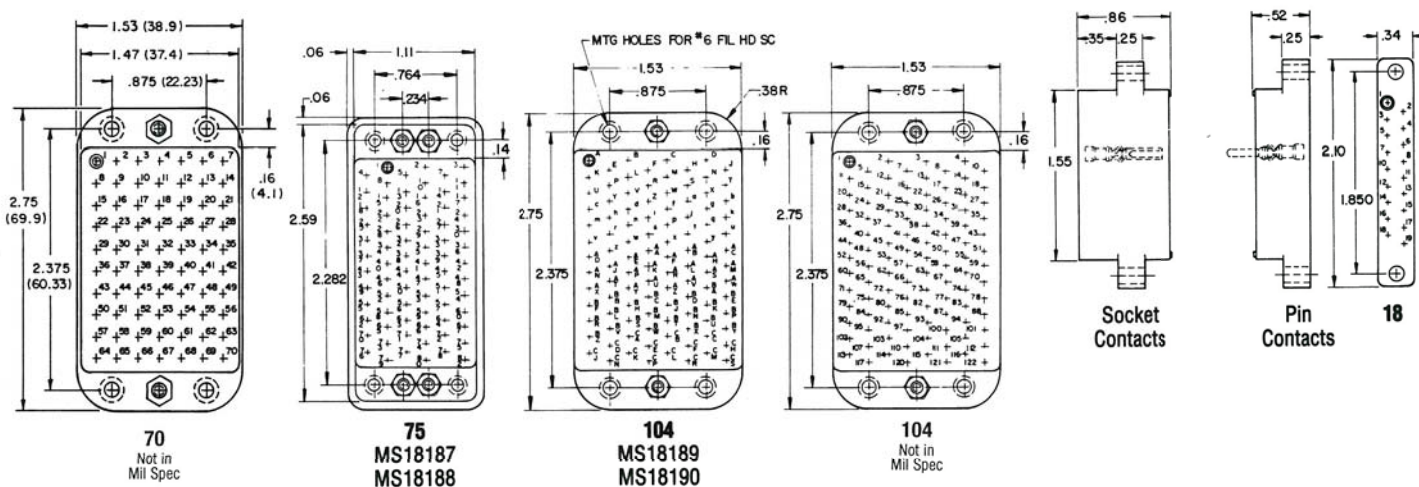
SIZE 16 & 20 CONTACTS

**7, 9, 14, 18, 20, 26, 34, 41, 42,
50, 66, 70, 75, 104 CONTACTS**

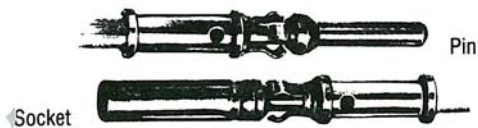
Series 25 is described more comprehensively in our “Series 25” brochure.



Views are wiring sides of pin contact connectors



CONTACTS



Choice of size 16 or 20 contacts

Size 16: .0625 (1.588mm) diameter

Size 20: .040 (1.02mm) diameter.

Choice of crimp barrel sizes

Crimp barrels are available to accommodate #14, 16, 18, 20, 22, 24, 26 and 30 AWG wire.

MATERIALS & FINISHES

Molded inserts: Glass fiber reinforced diallyl phthalate per MIL-M-14, type GDI-30F, grey.

Pin contact material: Leaded commercial bronze.

Socket contact material: Leaded commercial bronze body; beryllium copper pressure member per QQ-C-533.

Contact finish: Gold plate per MIL-G-45204, type I, grade C, class as required by customer, over a suitable underplate.

Accessories (hardware, hoods, shells, etc.): Contact factory.

PERFORMANCE CHARACTERISTICS

Voltages, breakdown (Sea level): 2,800 volts rms, 60 Hz.

Voltages, test (Sea level): 2,000 volts rms, 60 Hz.

Contact size: No. 16, 0.0625" (1.588mm) diameter; No. 20, 0.040" (1.02mm) diameter.

Wire size accommodated: No. 14 through No. 30 AWG.

Current rating: 13 amperes maximum to 1 ampere minimum (dependent on contact size and wire size).

Insulation resistance: 5,000 megohms minimum.

Operating temperature: -65°C to +125°C.

Connectors meet all other requirements of MIL-C-28748 for contact sizes 16 or 20 (electrical, mechanical, environmental) when supplied with MIL-SPEC approved materials and finishes.

QUALIFIED TO
MIL-C-28748/3, /4
MIL-C-39029/34, /35

M28748/4-A thru L	M28748/3-A thru L	Government Designation and Insert
0 1 thru 7	0 1 thru 7	Shield or Retaining Plate
0 A thru H J thru R	0 A thru H J thru R	Shell
F, G, L, O, S	F, G, L, O, S	Jack screws and Guide Pins
1A, 2A, 3A	1A, 2A, 3A	Contact

CONTACTS

MIL P/N

M39029/34-271

M39029/34-272

M39029/34-273

M39029/35-274

M39029/35-275

M39029/35-276

CCC P/N

MS2500-P4A20

MS2500-P6A20

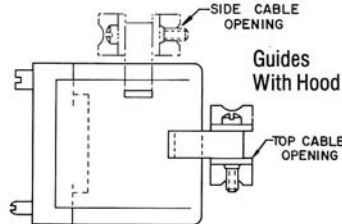
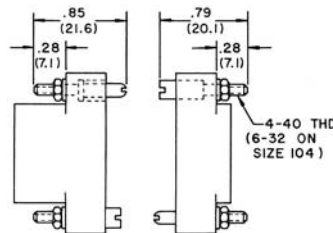
MS2500-P6A16

MSC2500-S4A20

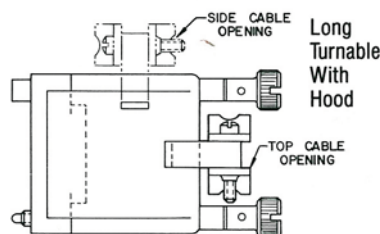
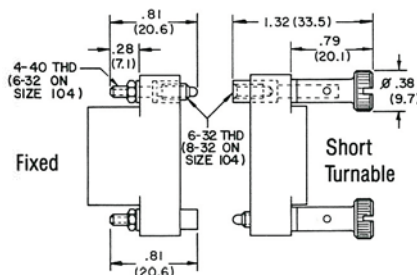
MSC2500-S6A20

MSC2500-S6A16

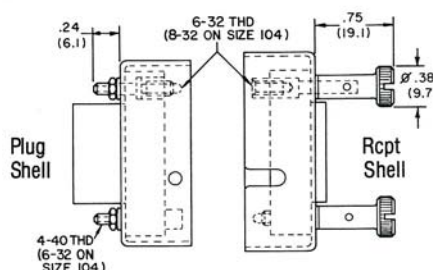
GUIDES



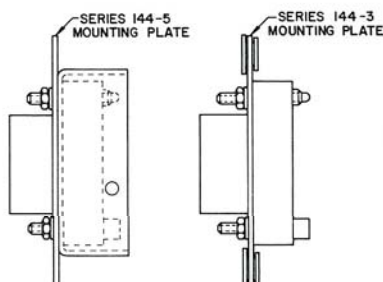
SCREWLOCKS



PROTECTIVE SHELLS



MOUNTING PLATES



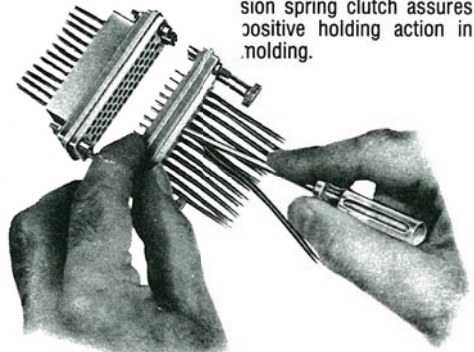
miniature removable wire-crimp connectors . . .

Eliminate all connector soldering operations with Continental Connector's removable contacts and wire-crimp terminations.

Contacts are supplied separately and wired independently of the connector body. This permits mounting of connector plug and socket units at any convenient time without waiting for completion of wiring operation. Wire crimping is fast and easy with hand or automatic power crimping tools for prototype or quantity production. Inspection of crimp connection can be made before insertion into molding. Contacts are quickly removed and replaced with simple, low cost hand tools (see illustrations). In this way, circuits can be relocated or replaced readily by changing individual contacts only without disturbing the entire connector.

INSERTION—

Simple hand held insertion tool inserts crimped contact and wire into connector molding. Three-tine, tension spring clutch assures positive holding action in molding.



REMOVAL—

Spring-loaded removal tool easily ejects contact and wire from molding with a single motion. Permits fast and easy on-the-spot replacement.



TOOLS

Contact insertion and removal tools.

Hand operated crimping tool.

Manual feed pneumatic crimping tool (portable or bench mount).

Automatic contact feed pneumatic crimping tool (portable or bench mount).

Contact carriers packaged in reels for pneumatic crimping tools.

1900 CENTER SCREWLOCK

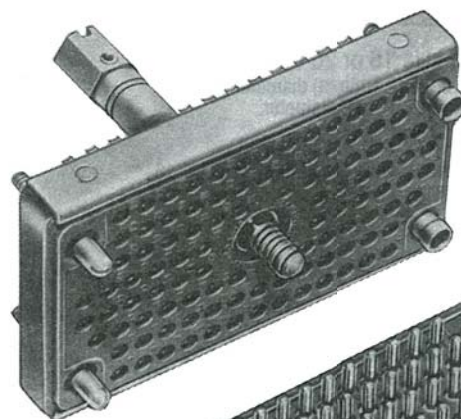
MINIATURE RECTANGULAR POWER CONNECTORS

34, 50, 78, 104, 152 CONTACTS

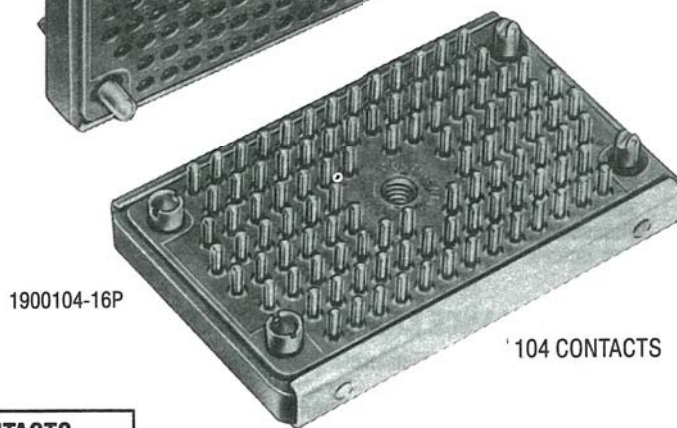
SIZE 16 CONTACTS — 13 Amperes

PROVEN RELIABILITY . . . CENTER SCREWLOCK PLUGS & RECEPTACLES WITH CLOSED ENTRY CONTACTS AND SOLDERLESS WRAP TERMINALS

Continental Connector's center screwlock plug and socket connectors are available with 152, 104, 78, 50 or 34 contacts, and are designed for heavy duty applications in aircraft and electronic equipment. They have high dielectric and mechanical strength and feature a double lead thread action center screwlock plus reinforcing stainless steel channels which are riveted to the long sides of plug and receptacle. The body material is molded from glass filled Diallyl Phthalate (per MIL-M-14 type GDI-30 F, green).

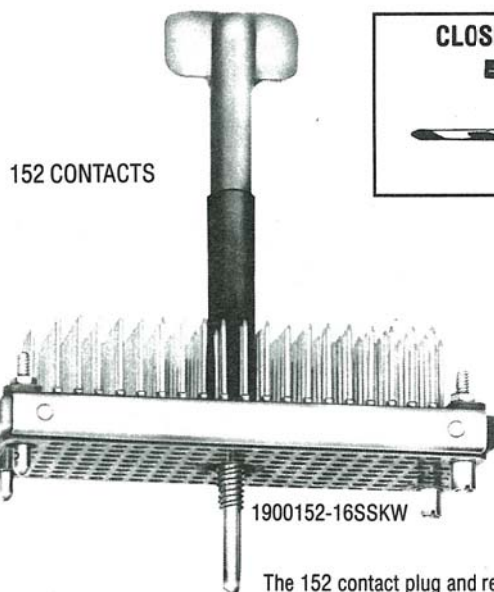


1900104-16SS



1900104-16P

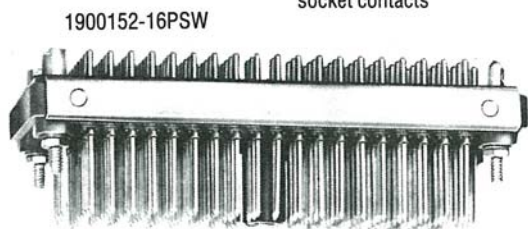
104 CONTACTS



152 CONTACTS

1900152-16SSKW

The 152 contact plug and receptacle are also available with wire-crimp removable pin and socket contacts

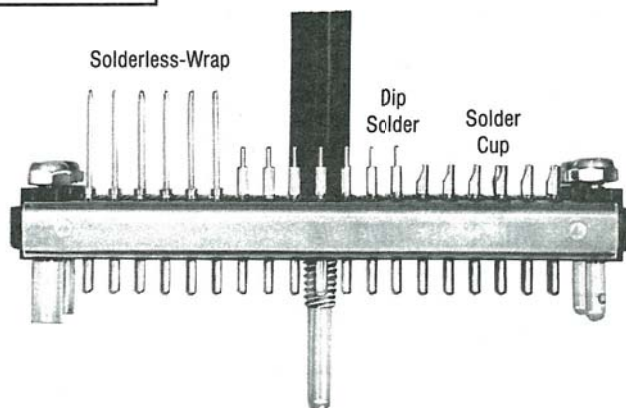


1900152-16PSW

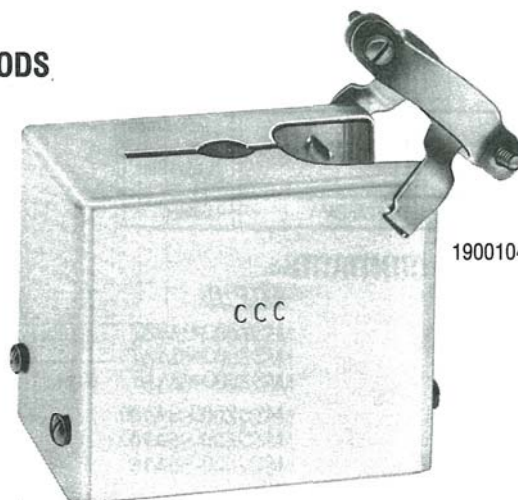
CLOSED ENTRY SOCKET CONTACTS



TERMINALS



HOODS



1900104-16H45

Series 1900 is described more comprehensively in our "Series 1900" brochure.

8, 10, 14, 20 CONTACTS



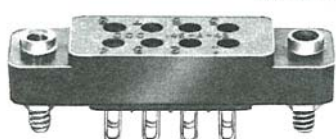
Relay sockets are comprehensively described in our "Series 145-8" brochure.

RELAY SOCKETS

MICROMINIATURE RELAY SOCKETS

Designed for use with plug-in relays in a variety of electronic circuit applications. Available with a variety of terminations (solder cup, eyelet lug, dip, turret, crimp removable) for direct wiring or printed circuit assembly. Mounting styles include tapped standoffs with studs fixed in molding for top chassis mounting, thru-hole, or tapped inserts with removable stand-offs and screws for mounting on either side of chassis or panel.

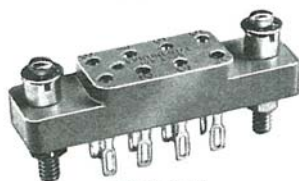
8 CONTACTS



145-8-42
Eyelet Lugs/Fixed Standoffs



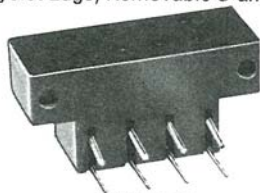
145-8
Solder Cups/Removable Standoffs



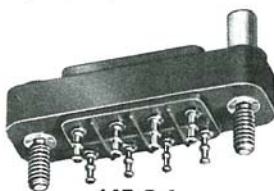
145-8-35
Eyelet Lugs/Removable Standoffs



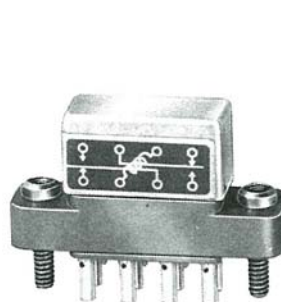
145-8-1
Dip Solder/Fixed Standoffs



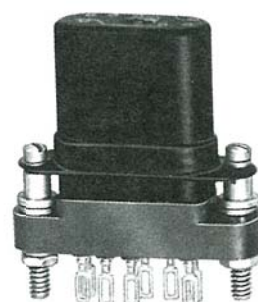
145-8-8
90° Dip Solder



145-8-4
Turrets/Fixed Standoffs

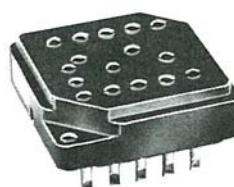


145-8-23
(Shown with relay mounted)

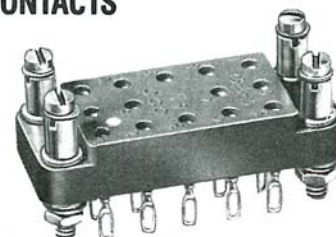


145-8-34

14 CONTACTS



145-8-14
Solder Cups



145-8-10
Eyelet Lugs/Removable Standoffs

10 CONTACTS



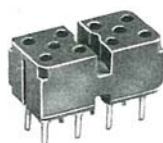
145-8-50
Solder Cups/Thru Holes



145-8-41
Solder Cups/Removable Standoffs



145-8-51
Crimp-Removable



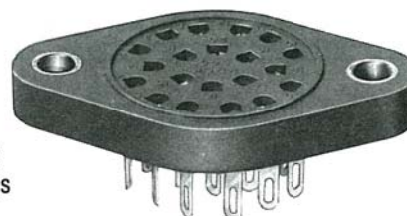
145-8-52-1
Dip Solder



145-8-53-1
Dip Solder

Mounting Clip

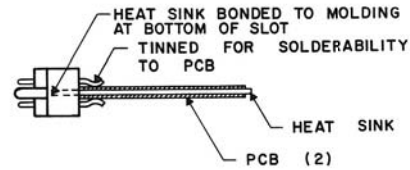
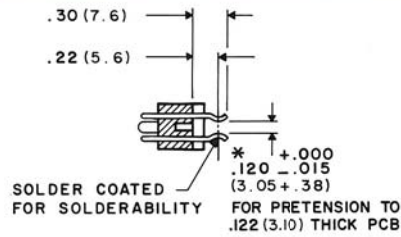
20 CONTACTS



145-8-15
Eyelet Lugs

N SURFACE MOUNTABLE

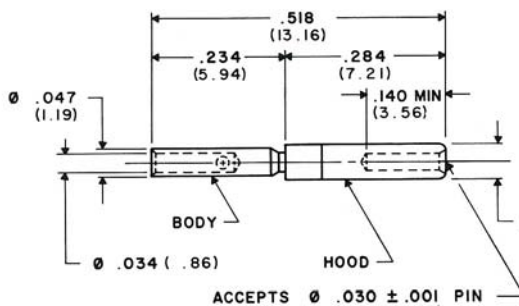
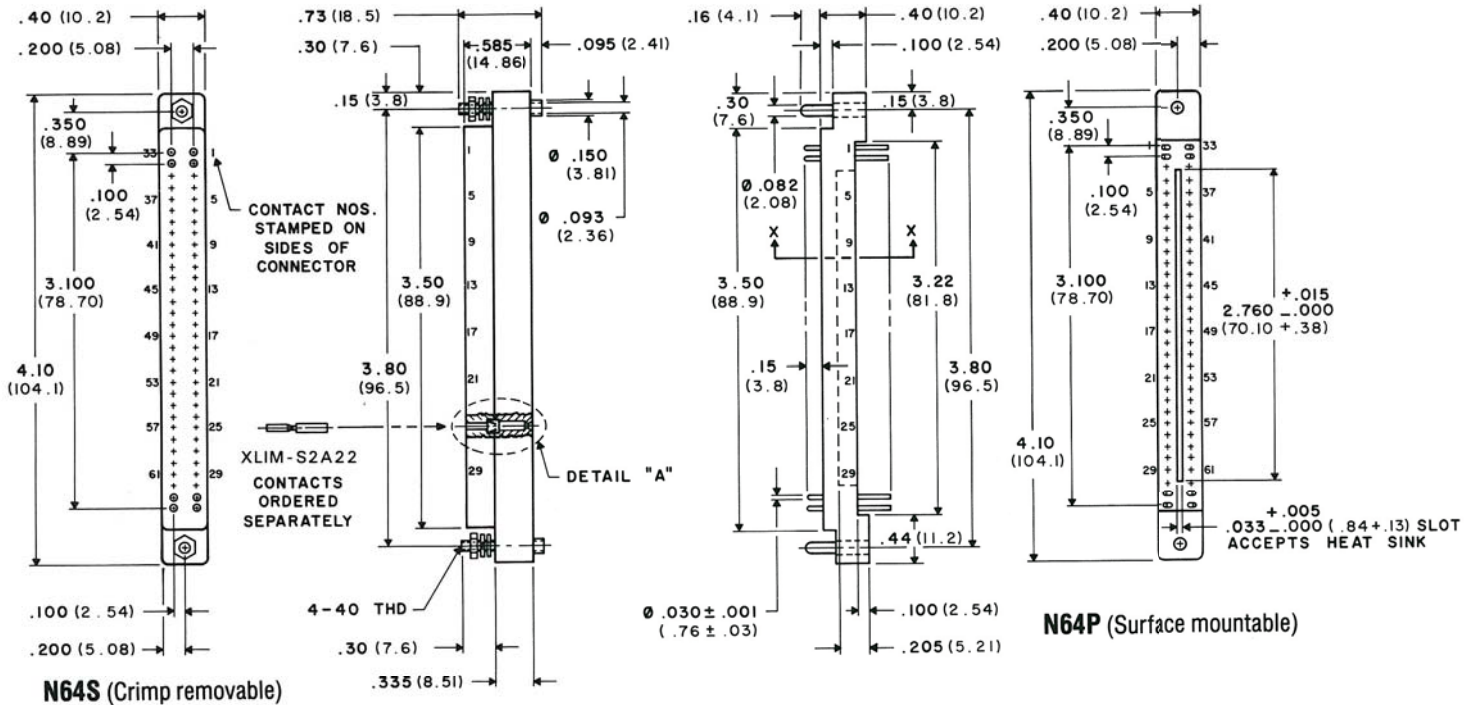
**.100" (2.54MM) CONTACT SPACING
64 & 144 CONTACTS**



Terminals straddle sides of PCB

*SECTION X-X

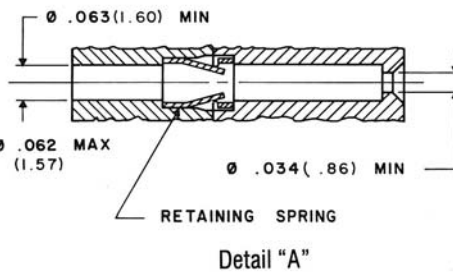
Alternate dimensions are available on request for other PCB thicknesses.



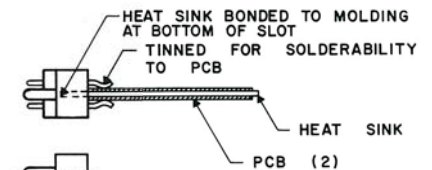
XLIM - S2A22 (M55302/65-02)

Accommodates No. 22, 24 and 26 AWG wire

CRIMP REMOVABLE SOCKET (Low force)

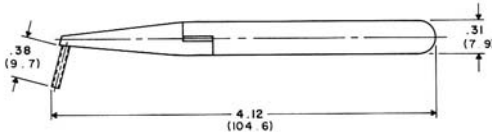


PCB ASSEMBLY

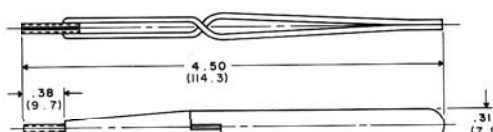


INSTALLING & REMOVAL TOOLS

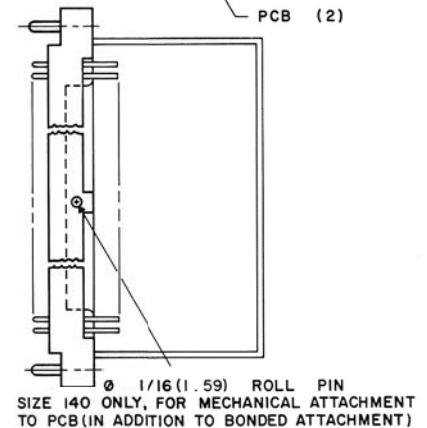
For rear contact insertion and removal



T42021 (Angle extension)

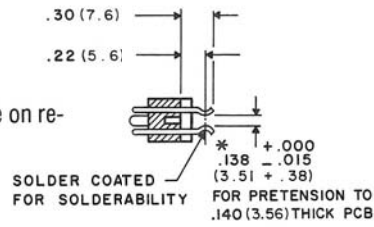


T42020 (Straight extension)

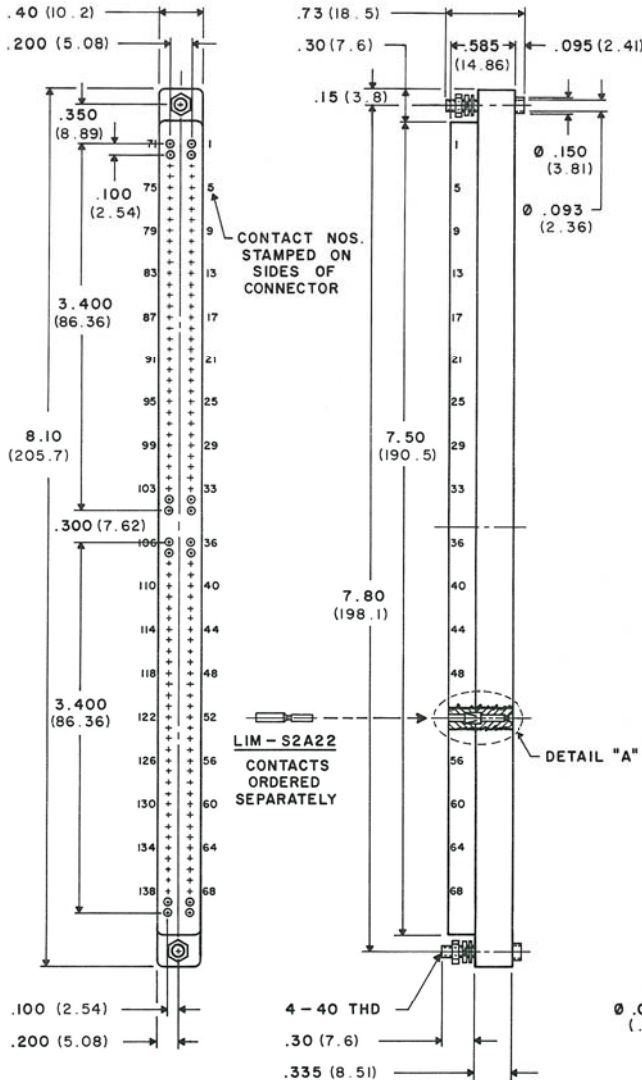


***SECTION X-X**

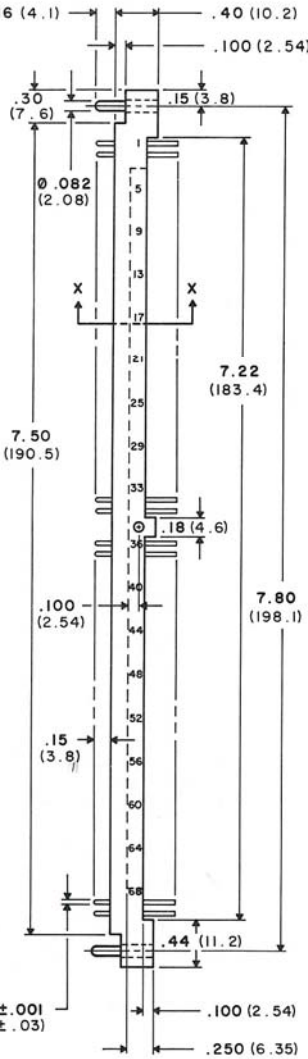
Alternate dimensions are available on request for other PCB thicknesses.



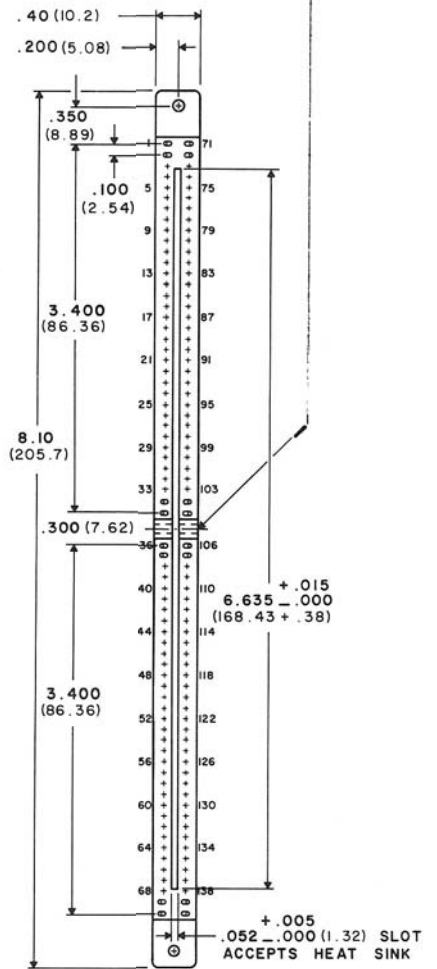
Ø .067 (1.70) CLEARANCE
FOR Ø 1/16 (1.6) ROLL PIN
[FOR MECHANICAL ATTACHMENT
TO PC BOARD / HEAT SINK]



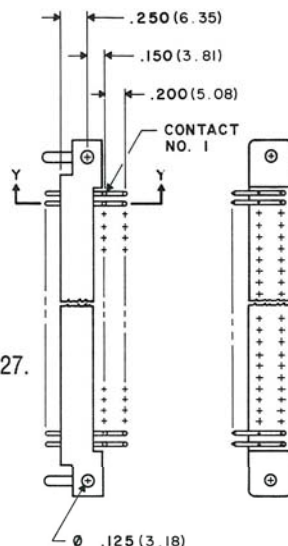
N140S (Crimp removable)



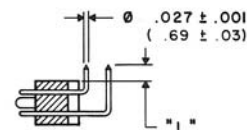
N140P (Surface mountable)



CONTACT CRIMPING TOOLS: Same as shown on page 19 for Series XCMARC & XCMRC.
RATINGS: See applicable paragraphs on page 27.
MATERIALS & FINISHES: See applicable paragraphs on page 27.



OPTIONAL 90° TERMINALS



Section Y-Y

L ± .015 (.38)	ORDERING CODE
.109 (2.77)	D911
.140 (3.56)	D914