

Distributed by:



www.Jameco.com ♦ 1-800-831-4242

The content and copyrights of the attached
material are the property of its owner.



PRODUCT SPECIFICATION

.093 SERIES PLUG AND RECEPTACLE POWER CONNECTORS

1.0 SCOPE

This Product Specification covers the 5.03 mm (.198 inch) centerline connector series using pin and socket terminals terminated with 14 to 24 AWG wire using crimp technology with tin plating.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

<u>PRODUCT NAME</u>	<u>SERIES NUMBER</u>
Plug Housing, 1-circuit	1619-1P
Receptacle Housing, 1-circuit	1619-1R
Plug Housing, 2-circuit	1545-P*
Receptacle Housing, 2-circuit	1545-R*
Plug Housing, 3-circuit	1396-P*
Receptacle Housing, 3-circuit	1396-R*
Plug Housing, 4-circuit (in-line)	1490-P*
Receptacle Housing, 4-circuit (in-line)	1490-R*
Plug Housing, 4-circuit (2 x 2)	2163-P*
Receptacle Housing, 4-circuit (2 x 2)	2163-R*
Plug Housing, 5-circuit	1653-P*
Receptacle Housing, 5-circuit	1653-R*
Plug Housing, 6-circuit	1261-P*
Receptacle Housing, 6-circuit	1261-R*
Plug Housing, 9-circuit	1292-P*
Receptacle Housing, 9-circuit	1292-R*
Plug Housing, 12-circuit	1360-P*
Receptacle Housing, 12-circuit	1360-R*
Socket Terminal, 14-18 AWG	1189
Pin Terminal, 14-18 AWG	1190
Socket Terminal, 18-22 AWG	1380
Pin Terminal, 18-22 AWG	1381
Socket Terminal, 22-24 AWG	2870
Pin Terminal, 22-24 AWG	2871
Socket Terminal, 14-18 AWG, (P-B)	4550
Socket Terminal, 18-22 AWG, (P-B)	2151

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Housings are molded of UL 94V-2 rated PA66.

Terminals are tin-plated brass or phosphor-bronze.

See appropriate sales drawings for additional information on dimensions, materials, platings and markings.

<u>REVISION:</u> A	<u>ECR/ECN INFORMATION:</u> <u>EC No:</u> UCR#2002-0324 <u>DATE:</u> 2001 / 10/ 04	<u>TITLE:</u> PRODUCT SPECIFICATION STANDARD .093 SERIES PLUGS & RECEPTACLES	<u>SHEET No.</u> 1 of 3
<u>DOCUMENT NUMBER:</u> PS-43660-9999	<u>CREATED / REVISED BY:</u> BWIRKUS 10/4/01	<u>CHECKED BY:</u> BWIRKUS 10/4/01	<u>APPROVED BY:</u> SFRY 10/5/01



PRODUCT SPECIFICATION

2.3 SAFETY AGENCY APPROVALS

UL File #E29179
CSA File #E29179
TUV License #R75107

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See the appropriate sales drawings for necessary referenced documents and specifications.

4.0 RATINGS

4.1 VOLTAGE

250 Volts AC (RMS)

4.2 CURRENT AND APPLICABLE WIRES

AWG	Circuit Size	Amps
14	3	14
14	9	11
18	3	10
18	9	7
22	3	7
22	9	5

4.3 TEMPERATURE

Operating: - 55°C to + 105°C

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 20 mA. (Measurement locations in Section 7.0)	10 milliohms MAXIMUM [initial]
2	Dielectric Withstanding Voltage	Mate connectors: apply a voltage of 2000 VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown; current leakage < 500 mA
3	Temperature Rise (via Current Cycling)	Mate connectors, measuring the temperature rise at 60 minute intervals during 96 hours of steady state at rated current; followed by 240 hours of current cycling (45 minutes ON and 15 minutes OFF per hour) with measurements made during last 5 minute period of each ON cycle; followed by 96 hours of steady state at rated current with measurements taken at 60 minute intervals.	Temperature rise: +30°C MAXIMUM

REVISION: A	ECR/ECN INFORMATION: EC No: UCR#2002-0324 DATE: 2001 / 10 / 04	TITLE: PRODUCT SPECIFICATION STANDARD .093 SERIES PLUGS & RECEPTACLES	SHEET No. 2 of 3
DOCUMENT NUMBER: PS-43660-9999	CREATED / REVISED BY: BWIRKUS 10/4/01	CHECKED BY: BWIRKUS 10/4/01	APPROVED BY: SFRY 10/5/01



PRODUCT SPECIFICATION

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
4	Connector Mate and Unmate Forces	Mate and unmate connector (male to female) at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute for a total of 25 cycles. Initial mate forces to be measured. Unmate forces to be measured after 25 cycles.	15.6 N (3.5 lbf) MAXIMUM insertion force 4.4 N (1 lbf) MINIMUM withdrawal force
5	Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	89 N (20 lbf) MINIMUM retention force
6	Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch).	MINIMUM pullout forces: 14 AWG 178 N (40 lbf) 16 AWG 156 N (35 lbf) 18 AWG 133 N (30 lbf) 20 AWG 89 N (20 lbf) 22 AWG 62 N (14 lbf) 24 AWG 36 N (8 lbf)
7	Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch).	22N (5 lbf) MAXIMUM insertion force

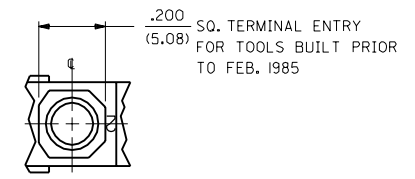
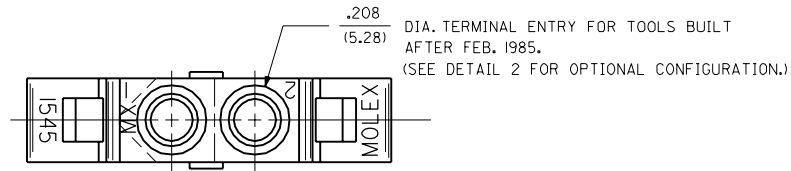
5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
8	Thermal Cycling	Mate connectors; expose to temperature cycling between -25°C and 70°C for 500 cycles with a dwell time of 30 minutes at each extreme. Measurements to be taken initially and after every 100 cycles.	10 milliohms MAXIMUM (change from initial) & Visual: No Damage

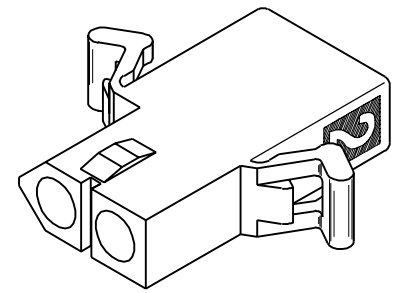
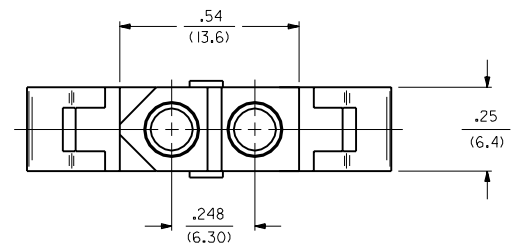
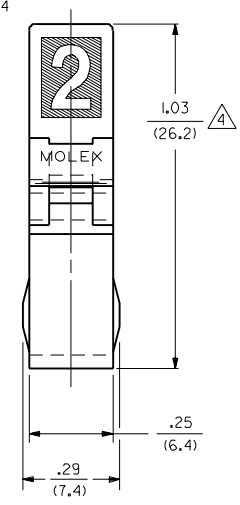
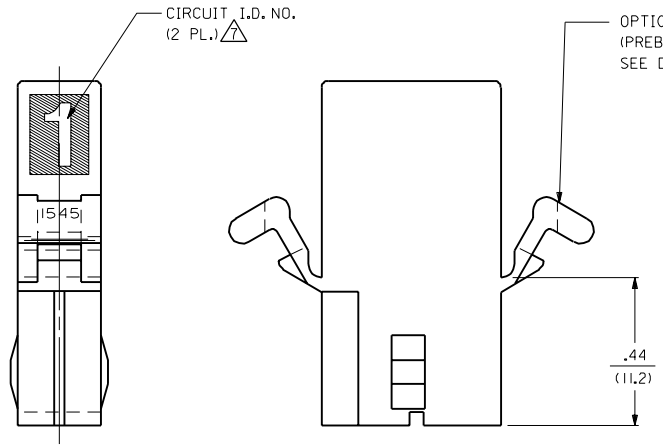
6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See the appropriate sales drawings for additional information on packaging requirements.

REVISION: A	ECR/ECN INFORMATION: EC No: UCR#2002-0324 DATE: 2001 / 10/ 04	TITLE: PRODUCT SPECIFICATION STANDARD .093 SERIES PLUGS & RECEPTACLES	SHEET No. 3 of 3
DOCUMENT NUMBER: PS-43660-9999	CREATED / REVISED BY: BWIRKUS 10/4/01	CHECKED BY: BWIRKUS 10/4/01	APPROVED BY: SFRY 10/5/01



DETAIL "2"



RECEPTACLE

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

13 12 11 10 9 8 7 6 5 4 3 2 1

PLUG

PART NO.	ENG. NO.
03-09-2021	I545-P
03-09-2022	I545-P1
03-09-7021	I545-PBK
03-09-7022	I545-P1BK
03-09-2023	I545-P2
03-09-7024	I545-P1RD
03-09-7023	I545-P1BU

RECEPTACLE

PART NO.	ENG. NO.
03-09-1021	I545-R
03-09-6021	I545-R3BK
03-09-6023	I545-R3RD
03-09-6024	I545-R3BU
03-09-1022	I545-R1
03-09-6022	I545-R1BK
03-09-1023	I545-R2
03-09-6025	I545-R1BU
03-09-6026	I545-R1RD
03-09-1027	I545-R3

LEGEND : PLUG

I545-P***-

OPTIONS: _____

BLANK = WITH STD. EARS

1 = WITHOUT EARS

2 = WITH PREBENT EARS

COLOR: BLANK=NATURAL COLOR _____

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

BLANK = MATERIAL CODE A _____

LEGEND : RECEPTACLE

I545-R***-

BLANK = WITH STD. EARS & RAMPS

1 = WITHOUT EARS, WITH RAMPS

2 = WITHOUT EARS, WITHOUT RAMPS

3 = WITH PREBENT EARS & RAMPS

COLOR: BLANK=NATURAL COLOR _____

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

BLANK = MATERIAL CODE A _____

NOTES:

1. MATERIAL: A - NYLON, PA66, 94V-2. COLOR: NATURAL.
2. FINISH: NONE.
3. PRODUCT SPECIFICATION: PS-02-09.
4. .97/(24.6) REF. FOR TOOLS BUILT PRIOR TO FEB. 1985.
5. 1.00/(25.4) REF. FOR TOOLS BUILT PRIOR TO FEB. 1985.
6. RIBS ARE PRESENT ONLY ON PARTS WITH MOUNTING EARS.
7. EACH TERMINAL POCKET WILL ACCEPT UP TO:
(2) #18 AWG WIRES HAVING 1/32" THK. INSULATION OR
(1) #16 AWG WIRE HAVING 1/16" THK. INSULATION OR
(1) #16 AWG & (1) #18 AWG WIRE HAVING 1/32" THK. INSULATION.
8. CIRCUIT I.D. NUMBERS ON SIDE OF HOUSING APPEAR ON PARTS FROM TOOLS BUILT AFTER 11/25/91.

RECOMMENDED PANEL OPENING

(SCALE 2:1)

DETAIL 3

.093/(2.36) STANDARD MOUNTING EAR (SCALE 4:1)

DETAIL 4

.093/(2.36) PREBENT MOUNTING EAR (SCALE 4:1)

HOUSING	DIM. "A"	DIM. "B"	DIM. "C" (PREBENT)	DIM. "C" (STD. EAR)
PLUG	.800/(20.32)	.375/(9.53)	.40/(10.2)	.39/(9.9)
RECEPTACLE	.725/(18.42)	.312/(7.92)	.41/(10.4)	.40/(10.2)

13 12 11 10 9 8 7 6 5 4 3 2 1

13 12 11 10 9 8 7 6 5 4 3 2 1

PLUG

PART NO.	ENG. NO.
03-09-2021	I545-P
03-09-2022	I545-P1
03-09-7021	I545-PBK
03-09-7022	I545-P1BK
03-09-2023	I545-P2
03-09-7024	I545-P1RD
03-09-7023	I545-P1BU

RECEPTACLE

PART NO.	ENG. NO.
03-09-1021	I545-R
03-09-6021	I545-R3BK
03-09-6023	I545-R3RD
03-09-6024	I545-R3BU
03-09-1022	I545-R1
03-09-6022	I545-R1BK
03-09-1023	I545-R2
03-09-6025	I545-R1BU
03-09-6026	I545-R1RD
03-09-1027	I545-R3

LEGEND : PLUG

I545-P***-

OPTIONS: _____

BLANK = WITH STD. EARS

1 = WITHOUT EARS

2 = WITH PREBENT EARS

COLOR: BLANK=NATURAL COLOR _____

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

BLANK = MATERIAL CODE A _____

LEGEND : RECEPTACLE

I545-R***-

BLANK = WITH STD. EARS & RAMPS

1 = WITHOUT EARS, WITH RAMPS

2 = WITHOUT EARS, WITHOUT RAMPS

3 = WITH PREBENT EARS & RAMPS

COLOR: BLANK=NATURAL COLOR _____

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

BLANK = MATERIAL CODE A _____

NOTES:

1. MATERIAL: A - NYLON, PA66, 94V-2. COLOR: NATURAL.
2. FINISH: NONE.
3. PRODUCT SPECIFICATION: PS-02-09.
4. .97/(24.6) REF. FOR TOOLS BUILT PRIOR TO FEB. 1985.
5. 1.00/(25.4) REF. FOR TOOLS BUILT PRIOR TO FEB. 1985.
6. RIBS ARE PRESENT ONLY ON PARTS WITH MOUNTING EARS.
7. EACH TERMINAL POCKET WILL ACCEPT UP TO:
(2) #18 AWG WIRES HAVING 1/32" THK. INSULATION OR
(1) #16 AWG WIRE HAVING 1/16" THK. INSULATION OR
(1) #16 AWG & (1) #18 AWG WIRE HAVING 1/32" THK. INSULATION.
8. CIRCUIT I.D. NUMBERS ON SIDE OF HOUSING APPEAR ON PARTS FROM TOOLS BUILT AFTER 11/25/91.

RECOMMENDED PANEL OPENING

(SCALE 2:1)

DETAIL 3

.093/(2.36) STANDARD MOUNTING EAR (SCALE 4:1)

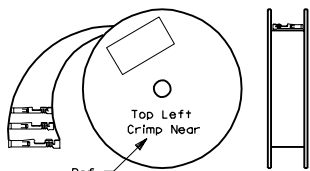
DETAIL 4

.093/(2.36) PREBENT MOUNTING EAR (SCALE 4:1)

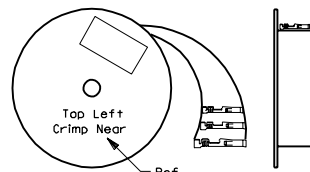
HOUSING	DIM. "A"	DIM. "B"	DIM. "C" (PREBENT)	DIM. "C" (STD. EAR)
PLUG	.800/(20.32)	.375/(9.53)	.40/(10.2)	.39/(9.9)
RECEPTACLE	.725/(18.42)	.312/(7.92)	.41/(10.4)	.40/(10.2)

13 12 11 10 9 8 7 6 5 4 3 2 1

PART NO.	ENG. NO.
02-09-1119	1381-A(P90)I L
02-09-1117	1381-A(P90)I
02-09-1115	1381-A(P90)I I



REWOUND CHAIN



STANDARD CHAIN

LEGEND

1381-A(****)*

P = PREPLATE
BLANK = POSTPLATE

FORM
BLANK = STD. CHAIN
A = REWOUND CHAIN
I = STD. CHAIN WITH INTERLEAF PAPER
L = LOOSE

FINISH CODE

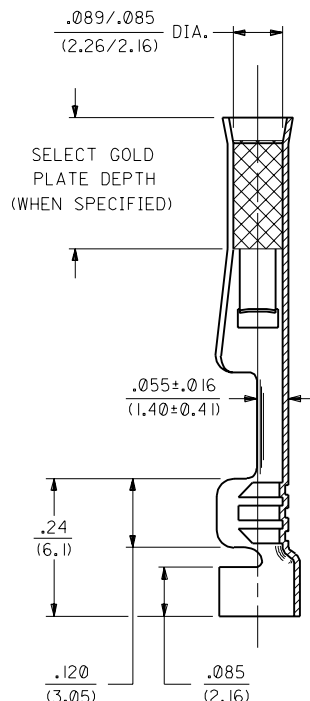
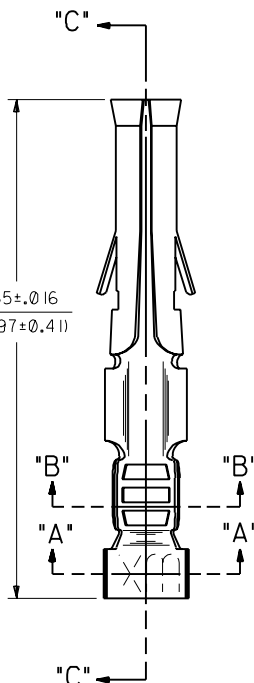
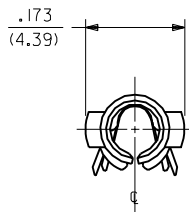
NOTES:

1. MATERIAL: BRASS, ALLOY #26000

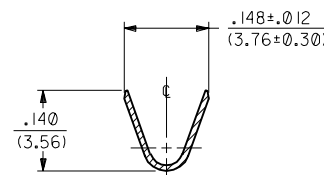
2. FINISH:

- 901 HOT TIN DIP .000020/(0.0005) MIN.
914 HOT TIN-LEAD DIP .000040/(0.0010) MIN.
102 TIN PLATE .000200/(0.0050) MIN. OVER .000100/(0.0025) MIN. COPPER OVERALL.
575 SELECT GOLD PLATE .000050/(0.00127) MIN. IN CONTACT AREA, .000050/(0.00127) MIN. TIN-LEAD IN CRIMP AREA OVER .000050/(0.00127) MIN. NICKEL OVERALL.
591 SELECT GOLD PLATE .000050/(0.00127) MIN. IN CONTACT AREA, OVER .000050/(0.00127) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. GOLD FLASH OVERALL.
550 SELECT GOLD PLATE .000015/(0.00038) MIN. IN CONTACT AREA, OVER .000030/(0.00076) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. GOLD FLASH OVERALL.
603 SELECT GOLD PLATE .000030/(0.00076) MIN. IN CONTACT AREA, .000100/(0.00254) MIN. TIN-LEAD IN CRIMP AREA OVER .000050/(0.00127) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. SELECT GOLD FLASH.

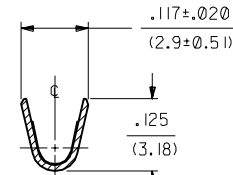
3. THIS PART CONFORMS TO PRODUCT SPECIFICATION 02-09.
4. TERMINAL FOR USE WITH .093/(2.36) SERIES HOUSINGS AND WILL ACCEPT 18-22 AWG WIRE
5. INSERTION FORCE: 3.5 LBS. MAX. WHEN TERMINAL IS INSERTED INTO AN .093 SERIES HOUSING.
6. TERMINAL RETENTION: 20 LBS. MIN. FROM HOUSING.



SECT. "C-C"

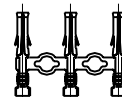


SECT. "A-A"



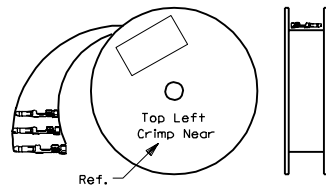
SECT. "B-B"

CHAIN FORM
FULL SCALE

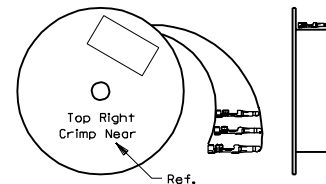


DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°		MFG. SH. REV. LTR. REVISIONS																					
<table border="1"> <tr> <th>5 PLACE</th> <th>±</th> <th>INCH</th> <th>METRIC</th> </tr> <tr> <td>2 PLACE</td> <td>±</td> <td>.014</td> <td>± 0.25</td> </tr> <tr> <td>1 PLACE</td> <td>---</td> <td>---</td> <td>± 0.35</td> </tr> </table>		5 PLACE	±	INCH	METRIC	2 PLACE	±	.014	± 0.25	1 PLACE	---	---	± 0.35	<table border="1"> <tr> <td>FILE NAME</td> <td>SD 1381X1</td> <td>DATE</td> <td>11/6/87</td> </tr> <tr> <td>FILE NO.</td> <td>1381X1</td> <td>DATE</td> <td>11/6/87</td> </tr> </table>		FILE NAME	SD 1381X1	DATE	11/6/87	FILE NO.	1381X1	DATE	11/6/87
5 PLACE	±	INCH	METRIC																				
2 PLACE	±	.014	± 0.25																				
1 PLACE	---	---	± 0.35																				
FILE NAME	SD 1381X1	DATE	11/6/87																				
FILE NO.	1381X1	DATE	11/6/87																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		REVISE ONLY ON CAD SYSTEM																					
<table border="1"> <tr> <td>DRWG. NO.</td> <td>SD-1381-I</td> </tr> <tr> <td>FILE NAME</td> <td>SD 1381X1</td> </tr> <tr> <td>FILE NO.</td> <td>1381X1</td> </tr> </table>		DRWG. NO.	SD-1381-I	FILE NAME	SD 1381X1	FILE NO.	1381X1	<table border="1"> <tr> <td>DRWG. NO.</td> <td>SD-1381-I</td> </tr> <tr> <td>FILE NAME</td> <td>SD 1381X1</td> </tr> <tr> <td>FILE NO.</td> <td>1381X1</td> </tr> </table>		DRWG. NO.	SD-1381-I	FILE NAME	SD 1381X1	FILE NO.	1381X1								
DRWG. NO.	SD-1381-I																						
FILE NAME	SD 1381X1																						
FILE NO.	1381X1																						
DRWG. NO.	SD-1381-I																						
FILE NAME	SD 1381X1																						
FILE NO.	1381X1																						
<table border="1"> <tr> <td>DRWG. NO.</td> <td>SD-1381-I</td> </tr> <tr> <td>FILE NAME</td> <td>SD 1381X1</td> </tr> <tr> <td>FILE NO.</td> <td>1381X1</td> </tr> </table>		DRWG. NO.	SD-1381-I	FILE NAME	SD 1381X1	FILE NO.	1381X1	<table border="1"> <tr> <td>DRWG. NO.</td> <td>SD-1381-I</td> </tr> <tr> <td>FILE NAME</td> <td>SD 1381X1</td> </tr> <tr> <td>FILE NO.</td> <td>1381X1</td> </tr> </table>		DRWG. NO.	SD-1381-I	FILE NAME	SD 1381X1	FILE NO.	1381X1								
DRWG. NO.	SD-1381-I																						
FILE NAME	SD 1381X1																						
FILE NO.	1381X1																						
DRWG. NO.	SD-1381-I																						
FILE NAME	SD 1381X1																						
FILE NO.	1381X1																						

PART NO.	ENG. NO.
02-09-2118	I380-(P90)IL
02-09-2116	I380-(P90)I
02-09-2127	I380-(P90)II
02-09-2156	I380-(P914)L
02-09-2157	I380-(P914)
NOT TOOLED	I380-(563)L
02-09-6135	I380-(563)
02-09-6126	I380-(591)L
02-09-6125	I380-(591)
02-09-6124	I380-(558)L
02-09-6121	I380-(558)
02-09-6123	I380-(550)L
02-09-6122	I380-(550)
NOT TOOLED	I380-(603)L
02-09-6136	I380-(603)
02-09-2159	I380-(P914)A
02-09-2147	I380-(102)L
02-09-2148	I380-(102)
02-09-2119	I380-A(P90)IL
02-09-2117	I380-A(P90)I



REWOUND CHAIN



STANDARD CHAIN

LEGEND

1380-*(***)*
 OPTIONAL DETENT
 BLANK = WITH DETENT
 A = WITHOUT DETENT

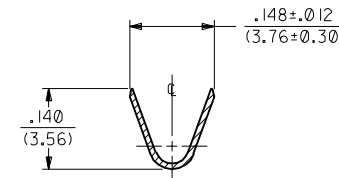
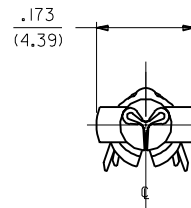
P = PREPLATE
 BLANK = POSTPLATE

FORM
 BLANK = STD. CHAIN
 A = REWOUND CHAIN
 L = LOOSE
 I = STD. CHAIN WITH INTERLEAF PAPER

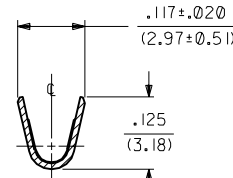
FINISH CODE

NOTES:

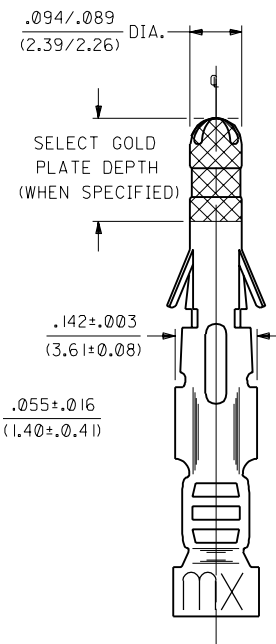
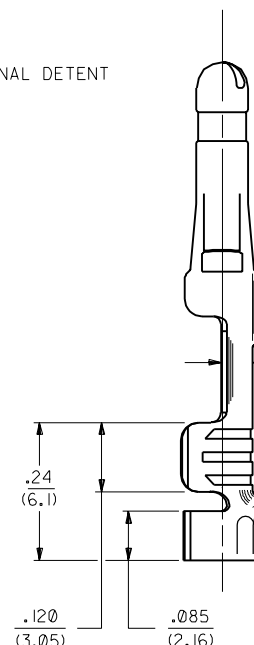
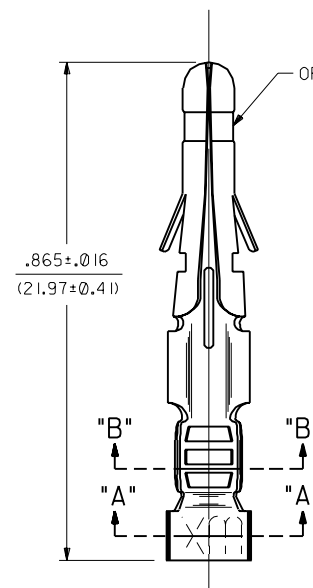
- MATERIAL: BRASS, ALLOY #C26000
- FINISH:
 - HOT TIN DIP .000020/(0.0005) MIN.
 - HOT TIN-LEAD DIP .000040/(0.0010) MIN.
 - TIN PLATE .000200/(0.00508) MIN. OVER .000100/(0.00254) MIN. COPPER OVERALL.
 - SELECT GOLD PLATE .000030/(0.00076) MIN. IN CONTACT AREA, OVER .000050/(0.00127) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. GOLD FLASH OVERALL.
 - SELECT GOLD PLATE .000050/(0.00127) MIN. IN CONTACT AREA, OVER .000050/(0.00127) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. GOLD FLASH OVERALL.
 - SELECT GOLD PLATE .000015/(0.00038) MIN. IN CONTACT AREA, OVER .000030/(0.00076) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. GOLD FLASH OVERALL.
 - SELECT GOLD PLATE .000030/(0.00076) MIN. IN CONTACT AREA, .000100/(0.00254) MIN. TIN-LEAD IN CRIMP AREA OVER .000050/(0.00127) MIN. NICKEL OVERALL.
 - SELECT GOLD PLATE .000030/(0.00076) MIN. IN CONTACT AREA, .000100/(0.00254) MIN. TIN-LEAD IN CRIMP AREA OVER .000050/(0.00127) MIN. NICKEL OVERALL WITH .000010/(0.00025) MAX. SELECT GOLD FLASH.
- THIS PART CONFORMS TO PRODUCT SPECIFICATION 02-09.
- TERMINAL FOR USE WITH .093/(2.36) SERIES HOUSINGS AND WILL ACCEPT 18 THRU 22 AWG
- INSERTION FORCE: 3.5 LBS. MAX. WHEN TERMINAL IS INSERTED INTO AN .093 SERIES HOUSING.
- TERMINAL RETENTION: 20 LBS. MIN. FROM HOUSING.



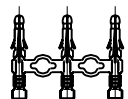
SECT. "A-A"



SECT. "B-B"



CHAIN FORM
FULL SCALE



DIMENSIONS SHOWN (METRIC) INCH		UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°	
5 PLACE	± .010	INCH	METRIC
2 PLACE	± .014	± .025	
1 PLACE	---	± .035	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
DRWG. BY	GEP	CHK'D. BY	RW
APP'D. BY	RAS	SCALE	6 : 1
FILE NAME		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
SD1380X1			
MFG. SH.		REV. LTR.	
REV. 0		REV. 0	
REVISE ONLY ON CAD SYSTEM			
TITLE			
CRIMP TERMINAL, MALE			
.093/(2.36) DIA.			
FOR 18 THRU 22 AWG WIRE			
MOLEX INCORPORATED		SHEET NO. DATE	
L15LEJLL 60532		1 OF 1 11 / 6 / 87	
PART NO.		DRWG. NO.	
SEE CHART		SD-1380-	
DIV. CP		SIZE	