MAXIMUM SOLUTIONS

New Crimp Pins and Receptacles from Mill-Max

A selection of wire termination products for a range of applications

Mill-Max is pleased to announce the addition of new crimp pins and receptacles to our selection of wire termination products. These pins and receptacles are precision-machined to exacting tolerances and gold plated for excellent conductivity and durability. The receptacles are fitted with the high reliability Mill-Max spring finger contacts. If your application requires dependable, long lasting crimp wire connections, then these pins and receptacles will fit the bill perfectly.

There are two new pins, and five new receptacles to choose from. The table below provides details of the pin size, wire accommodation size and Mill-Max part numbers. The Mill-Max part numbers in the table specify 10 micro inches gold plating on the shell and 30 micro inches gold plating on the internal contacts. Thicker gold plating options are available upon request. All plating options have a nickel under-plate.

Mill-Max Part # (Male Pins)	Wire Accommodation	Pin Size
4609-0-07-15-00-00-03-0	18- 20 AWG	.054” (1,37 mm)
6618-0-07-15-00-00-03-0	16- 20 AWG	.078” (1,98 mm)

Mill-Max Part # (Receptacles)	Wire Accommodation	Pin Acceptance Range
3735-0-19-15-34-27-10-0	18- 22 AWG	Between .032"-.046" (0,813-1,168mm)
6433-0-19-15-42-27-10-0	18- 22 AWG	Between .059"-.063" (1,499-1,600mm)
5124-0-19-15-34-27-10-0	20- 24 AWG	Between .032"-.046" (0,813-1,168mm)
5135-0-19-15-16-27-10-0	20- 24 AWG	Between .022"-.034" (0,559-0,864mm)
5448-0-33-15-16-27-10-0	20- 24 AWG	Between .022"-.034" (0,559-0,864mm)

These crimp pins and receptacles may be used to terminate discrete wires, such as in board-to-board or intra-board connections for power or signal. They are also ideal for use in cable assembly connectors in which they can be insert molded or potted around. With a broad acceptance range of wire sizes (16-24 AWG) and mating leads (.022”- .063”), this new group of diverse crimp termination products offers flexible solutions for a variety of applications.

For more information, please visit www.mill-max.com/PR696.

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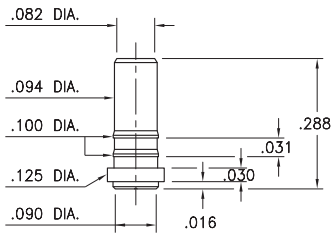
MILL-MAX®

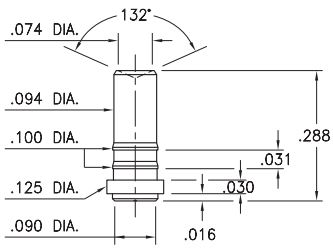
MALE PCB PINS

PRINTED CIRCUIT PINS

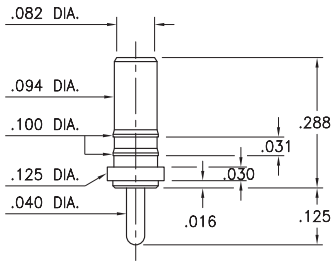
1959-0
1959-0-00-15-00-00-03-0
Flat face Target contact, surface mount
Press-fit in .098 mounting hole



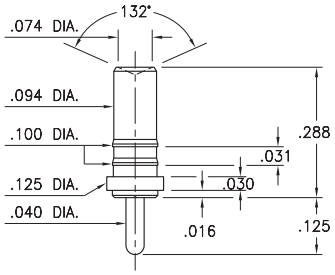
1959-1
1959-1-00-15-00-00-03-0
Concave face Target contact, surface mount
Press-fit in .098 mounting hole



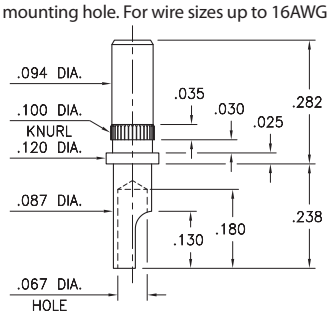
1969-0
1969-0-00-15-00-00-03-0
Flat face Target contact, solder Tail
Press-fit in .098 mounting hole



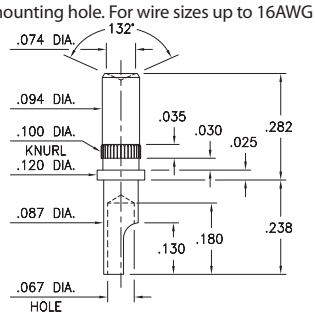
1969-1
1969-1-00-15-00-00-03-0
Concave face Target contact, solder Tail
Press-fit in .098 mounting hole



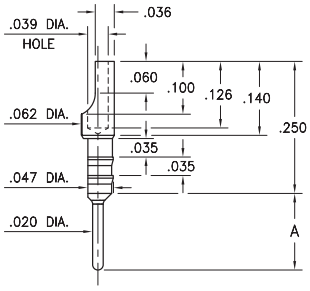
1968-0
1968-0-01-15-00-00-03-0
Flat face Target contact, Press-fit in .097" mounting hole. For wire sizes up to 16AWG



1968-1
1968-1-01-15-00-00-03-0
Concave face Target contact, Press-fit in .097" mounting hole. For wire sizes up to 16AWG

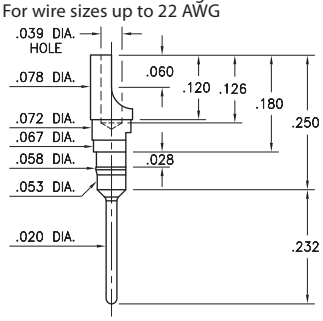


3078
3078-X-00-15-00-00-03-0
Press-fit in .057 mounting hole
For wire sizes up to 22 AWG

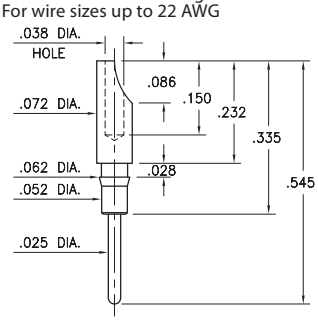


Basic Part Number	Pin Length A
3078-0	.145
3078-3	.205

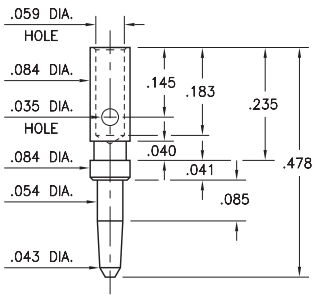
3180
3180-2-01-XX-00-00-03-0
Press-fit in .055 mounting hole
For wire sizes up to 22 AWG



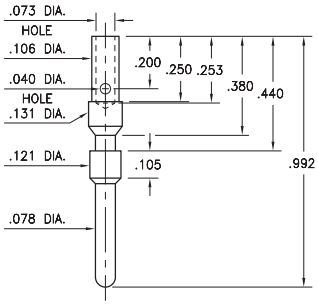
0518
0518-0-01-XX-00-00-03-0
Press-fit in .059 mounting hole
For wire sizes up to 22 AWG



4609
4609-0-07-XX-00-00-03-0
Wire crimp termination. Accepts wire sizes 18 AWG Max. / 20 AWG Min.



6618
6618-0-07-XX-00-00-03-0
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 200 µ" TIN/LEAD OVER NICKEL
- **80** 200 µ" TIN OVER NICKEL (RoHS)
- **15** 10 µ" GOLD OVER NICKEL (RoHS)
- **21** 20 µ" GOLD OVER NICKEL (RoHS)
- **34** 50 µ" GOLD OVER NICKEL (RoHS)

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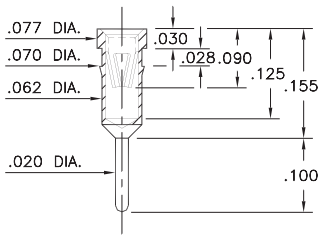
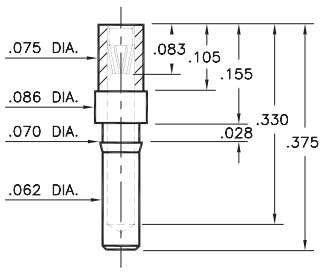
PIN RECEPTACLES

FOR .022" - .034" DIAMETER PINS AND .025" SQUARE PINS

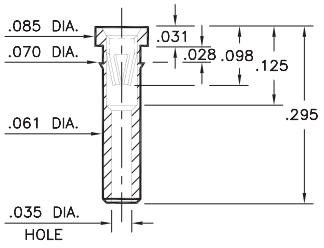
9808
9808-0-15-XX-16-XX-04-0
Press-fit in .067 mounting hole



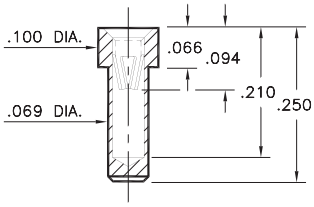
9101
9101-0-15-XX-16-XX-10-0
Press-fit in .067 mounting hole



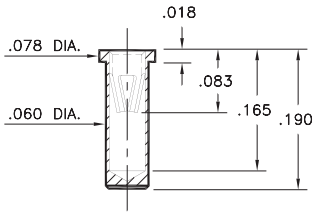
5650
5650-0-19-XX-16-XX-10-0
Press-fit in .067 mounting hole



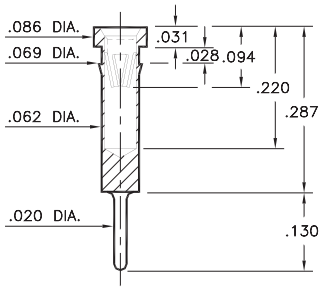
8679
8679-0-15-XX-16-XX-10-0
Solder mount in .071 min. mounting hole
Also available on 24mm wide carrier tape:
800 parts per 13" reel
See page 194.11 for Tape & Reel details



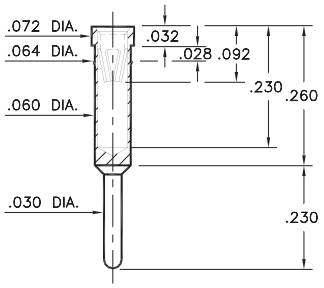
6021
6021-0-15-XX-16-XX-10-0
Solder mount in .062 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 13" reel
See page 194.11 for Tape & Reel details



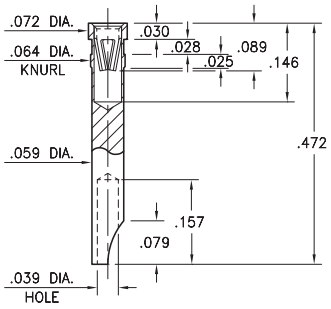
1873
1873-0-15-XX-16-XX-04-0
Press-fit in .066 mounting hole



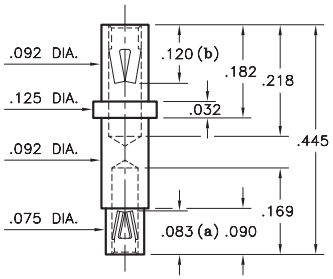
8827
8827-0-15-XX-16-XX-04-0
Press-fit in .061 mounting hole



5070
5070-0-18-XX-16-XX-10-0
Press-fit in .061 mounting hole



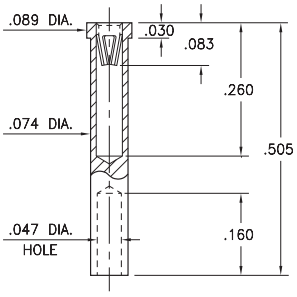
7620
7620-0-34-XX-16-XX-10-0
Double Ended Receptacle. See chart
for Contact number & acceptance ranges



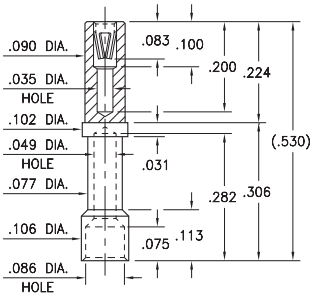
Contact Number	Acceptance Range
(a) #16	.022 - .034 and .025 □
(b) #34	.032 - .046

(Data on Page 258)

5135
5135-0-19-XX-16-XX-10-0
Wire crimp termination. Accepts wire
sizes 20 AWG Max. / 24 AWG Min.



5448
5448-0-33-XX-16-XX-10-0
Wire crimp termination. Accepts wire
sizes 20 AWG Max. / 24 AWG Min.



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 16 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- ◆ **80** 200 µ" TIN OVER NICKEL (RoHS)
- ◆ **15** 10 µ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- ◆ **80** 200 µ" TIN OVER NICKEL (RoHS)
- ◆ **27** 30 µ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#16 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

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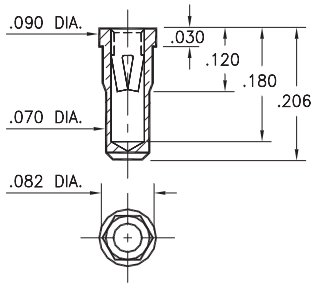
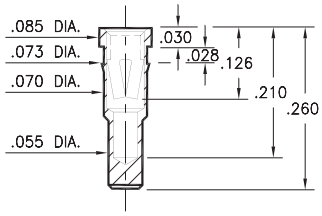
PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

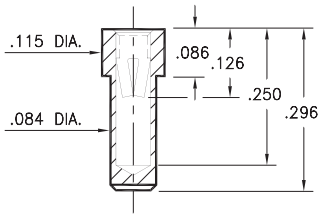
0739
0739-0-15-XX-34-XX-10-0
Hex press-fit in .078 plated through-hole



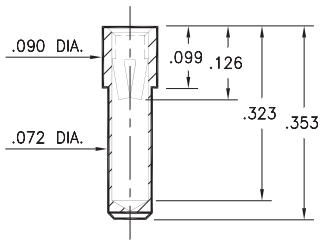
8853
8853-0-15-XX-34-XX-10-0
Press-fit in .071 mounting hole



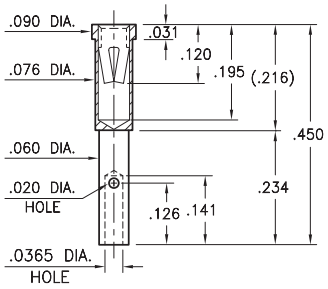
8838
8838-0-15-XX-34-XX-10-0
Solder mount in .086 min. mounting hole



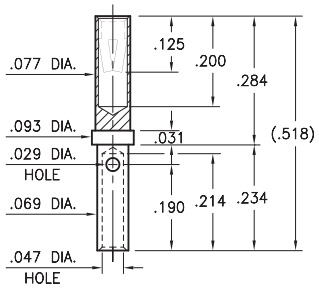
3100
3100-0-15-XX-34-XX-10-0
Solder mount in .074 min. mounting hole



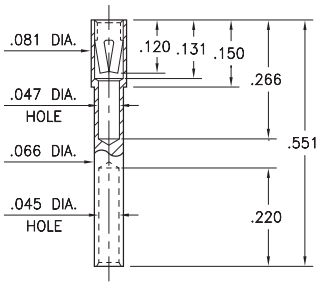
4130
4130-0-33-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



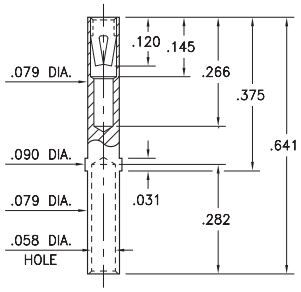
0720
0720-0-33-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



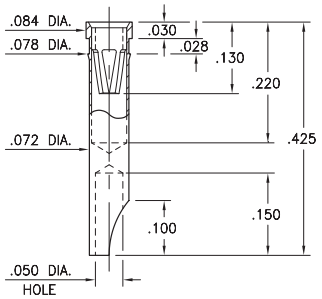
5124
5124-0-19-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



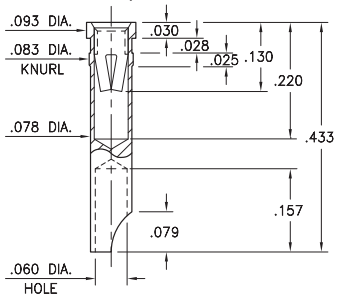
3735
3735-0-19-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



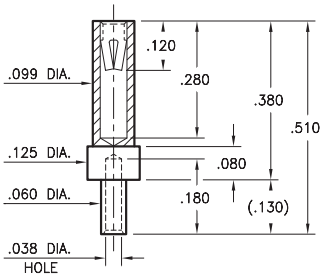
0740
0740-0-18-XX-34-XX-10-0
Press-fit in .075 mounting hole
For wire sizes up to 20 AWG



5084
5084-0-18-XX-34-XX-10-0
Press-fit in .081 mounting hole
For wire sizes up to 18 AWG



8731
8731-0-19-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- **80** 200 µ" TIN OVER NICKEL (RoHS)
- **15** 10 µ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- **80** 200 µ" TIN OVER NICKEL (RoHS)
- **27** 30 µ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

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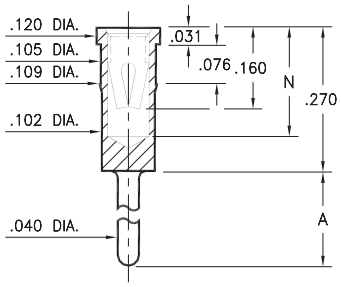
PIN RECEPTACLES

FOR .040" - .060" DIAMETER PINS (#03 CONTACT)
FOR .059" - .063" DIAMETER PINS (#42 CONTACT)

0433/8433
X433-0-15-XX-03-XX-04-0

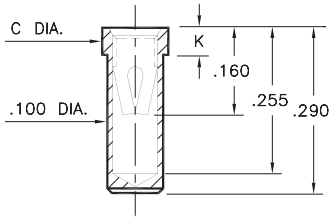
Press-fit in .106 mounting hole



Basic Part Number	Length A	Depth N
0433-0	.120	.205
8433-0	.315	.230

0435/0436
043X-0-15-XX-03-XX-10-0

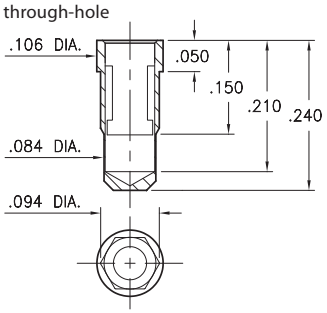
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 13" reel
See page 194.17 for Tape & Reel details



Basic Part Number	Dia. C	Length K
0435-0	.118	.050
0436-0	.125	.070

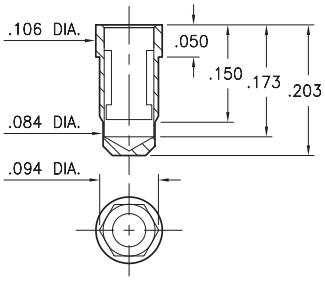
0342
0342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002 plated through-hole



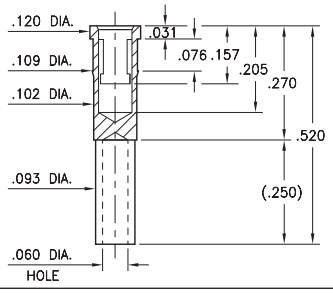
6342
6342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002 plated through-hole



6433
6433-0-19-XX-42-XX-10-0

Press-fit in .106 mounting hole
Wire crimp termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



Mechanical Data #42 Contact:
Insertion/Extraction Force with a Ø.061 (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliancy Test (the "spring back" characteristic of the contact to accept Ø .059 small pin after insertion of a Ø.063 large pin) :

Initial Cycle with Ø.059 pin		Second Cycle with Ø.063 pin		Third Cycle with Ø.059 pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- ◆ **80** 200 µ" TIN OVER NICKEL (RoHS)
- ◆ **15** 10 µ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 200 µ" TIN/LEAD OVER NICKEL
- ◆ **80** 200 µ" TIN OVER NICKEL (RoHS)
- ◆ **27** 30 µ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#03 or #42 CONTACT (DATA ON PAGE 259)

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