

MAXIMUM SOLUTIONS

New Wire Termination Pins and Receptacles from Mill-Max



Mill-Max is expanding its line of wire termination products by introducing six new pins and receptacles, three mated pairs, which facilitate the wire attachment process. Each features a solder cup for easy and efficient soldering and is precision-machined to provide the consistent and reliable interconnections expected of Mill-Max products.

These mated pairs of pins and receptacles are ideal for use in cable and wire harness applications and, as they all incorporate press-fit features on the barrels, are perfect for assembling into connector configurations per specification. Each pair is designed to support either 20, 16 or 14 AWG wires (see Table 1 below). The receptacles are a two piece construction with a precision-machined outer shell and stamped beryllium copper internal contact. Like all Mill-Max receptacles they are capable of multiple insertion and extraction cycles and are rated to carry current matching that of the wire sizes the solder cups are designed to accept. Table 1 provides details of the pin size, wire accommodation size, current rating and the Mill-Max part numbers of the mating pairs. The pins and receptacle shells are plated pure tin, matte finish, ready to accept solder. The receptacle inner contact is gold-plated, 30 micro inches, for durability and conductivity. Other plating options are available upon request.

For more information, please visit: www.mill-max.com/PR659.

Table 1

Wire Accommodation Size Max. (AWG)	Male Pin Part Number	Male Pin Size \varnothing	Receptacle Part Number	Receptacle Current Rating (Amps) at 10° C Temp. Rise
20	1140-0-01-80-00-00-03-0	.040"	0740-0-18-80-34-27-10-0	8
16	1160-0-01-80-00-00-03-0	.060	0760-0-18-80-13-27-10-0	11.2
14	1178-0-01-80-00-00-03-0	.078	0778-0-18-80-07-27-10-0	15

(11/15 -- PR659)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, Oyster Bay, NY 11771
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MALE PCB PINS

PRINTED CIRCUIT PINS

<p>1958 1958-0-00-15-00-00-03-0 Target contact, Solder Tail Concave face for increased surface contact</p>	<p>1960 1960-0-00-15-00-00-03-0 Target contact, Solder Tail Concave face for increased surface contact</p>	<p>4357 4357-0-00-XX-00-00-03-0 Solder mount .064 mounting hole</p>	
<p>1140 1140-0-01-XX-00-00-03-0 Press-fit in .057 mounting hole For wire sizes up to 20 AWG</p>	<p>1160 1160-0-01-XX-00-00-03-0 Press-fit in .080 mounting hole For wire sizes up to 16 AWG</p>	<p>1178 1178-0-01-XX-00-00-03-0 Press-fit in .100 mounting hole For wire sizes up to 14 AWG</p>	

SPECIFICATIONS:

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

Dimensions: Inches

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



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)



PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

<p>8838 8838-0-15-XX-34-XX-10-0 Solder mount in .086 min. mounting hole</p>	<p>3100 3100-0-15-XX-34-XX-10-0 Solder mount in .074 min. mounting hole</p>	<p>8853 8853-0-15-XX-34-XX-10-0 Press-fit in .071 mounting hole</p>	<p>6800 6800-0-15-XX-34-XX-04-0 Solder mount in .080 min. mounting hole</p>
<p>0739 0739-0-15-XX-34-XX-10-0 Hex press-fit in .078 plated through-hole</p>	<p>8206 8206-0-15-XX-34-XX-40-0 Surface mount, board edge</p> <p>P.C.B. PAD</p>	<p>P.C.B. Layout</p>	<p>0720 0720-0-33-XX-34-XX-10-0 Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.</p>
<p>5084 5084-0-18-XX-34-XX-10-0 Press-fit in .081 mounting hole</p>	<p>0740 0740-0-18-XX-34-XX-10-0 Press-fit in .075 mounting hole For wire sizes up to 20 AWG</p>		

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°



ORDER CODE: XXXX - X - 15 - 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)



PIN RECEPTACLES

**FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
FOR .045" - .065" DIAMETER PINS (#23 CONTACT)**

<p>8365 8365-0-15-XX-13-XX-10-0 Hex press-fit in .106 plated through-hole</p>	<p>8996 8996-0-31-XX-13-XX-04-0 Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board</p>	<p>9064 9064-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole Also available on 16mm wide carrier tape: 1,300 parts per 13" reel Order as: 9064-0-57-XX-13-XX-10-0</p>	<p>9280 9280-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole</p>
<p>4900 4900-0-19-XX-23-XX-10-0 Swage mount in .067 hole</p>	<p>0716 0716-0-33-XX-23-XX-10-0 Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.</p>	<p>0760 0760-0-18-XX-13-XX-10-0 Press-fit in .106 mounting hole For wire sizes up to 16 AWG</p>	

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°



ORDER CODE: XXXX - X - 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:

#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)



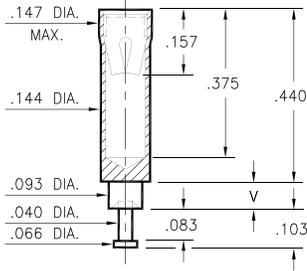
PIN RECEPTACLES

FOR .065" - .082" DIAMETER PINS

0395

0395-X-15-XX-07-XX-10-0

Swage mount in .096 hole

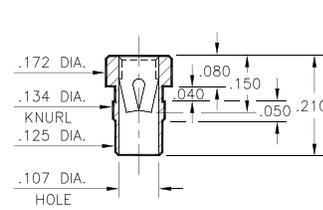


Basic Part Number	Board Thickness	Length V
0395-1	.031	.062
0395-2	.062	.094
0395-3	.094	.125
0395-4	.125	.156
0395-5	.188	.219

8016

8016-0-15-XX-07-XX-10-0

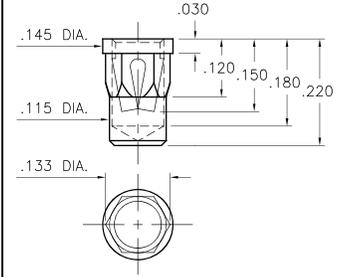
Press-fit in .131 mounting hole



0350

0350-0-15-XX-07-XX-10-0

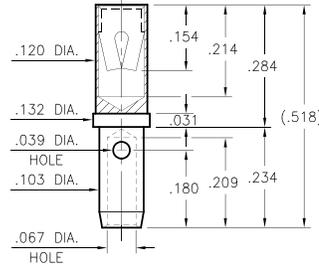
Hex press-fit in .129±.002 plated through-hole



0714

0714-0-33-XX-07-XX-10-0

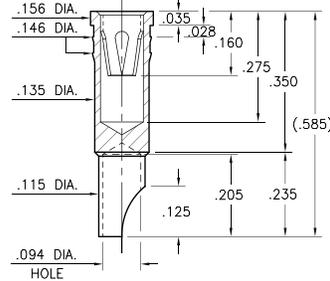
Wire crimp termination. Accepts wire sizes 14 AWG Max. / 16 AWG Min.



0778

0778-0-18-XX-07-XX-10-0

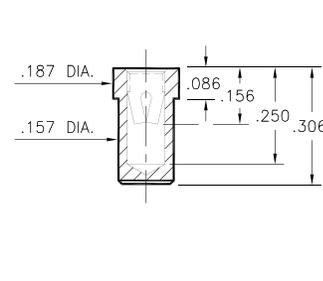
Press-fit in .143 mounting hole



8837

8837-0-15-XX-14-XX-10-0

Solder mount in .159 min. mounting hole



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°



ORDER CODE: XXXX - X - 15 - XX - XX - 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:

#07 or #14 CONTACT (DATA ON PAGE 261)

(For alternate contact choices, see group H on page 248)



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