

MAXIMUM SOLUTIONS

New Crimp Receptacles from Mill-Max



Mill-Max is pleased to announce the addition of new crimp receptacles to our selection of wire termination products. The new 07XX series are commercial-off-the-shelf (COTS) alternatives to the popular Mil-Spec M39029 female crimp terminals. The receptacles are fitted with the high reliability Mill-Max spring finger contacts in place of the slit and hooded terminals which characterize the M39029 products. If your application does not demand Mil-Qualified components but requires a similar form factor and high reliability, then these receptacles will fit the bill perfectly.

There are five new receptacles to choose from; all are two piece construction consisting of a precision-machined outer shell and stamped beryllium copper internal contact. Each has an inspection hole for viewing the wire during the crimping process and for promoting plating coverage inside the crimp hole. Table 1 below provides details of the pin size, wire accommodation size and Mill-Max part numbers. The Mill-Max part numbers in the table below 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 #	Wire Accommodation	Mating Pin Size
0722-0-33-15-47-27-10-0	22 - 28 AWG	22 (.030"Ø)
0720-0-33-15-34-27-10-0	20 - 24 AWG	20 (.040"Ø)
0716-0-33-15-23-27-10-0	16 - 20 AWG	16 (.0625"Ø)
0714-0-33-15-07-27-10-0	14 - 16 AWG	14 (.077"Ø)
0712-0-33-15-08-27-10-0	12- 14 AWG	12 (.094"Ø)

The 07XX series mates with our recently introduced M39029 COTS equivalent crimp pins (39XX series) as well as Mil-Spec M39029 pins (sizes 12, 14, 16, 20 & 22); when used together they provide an interconnect solution with wire crimp termination for discrete wires or cables. This new family of receptacles provides crimp termination of wire sizes from 28 – 12 AWG.

These crimp receptacles are convenient and simple to work with. Since they conform to the dimensions of the Mil-Spec parts, the same crimp tooling can be used to terminate the wires. The attached data sheets provide the Daniels Manufacturing crimp tooling information for these receptacles.

Please visit www.mill-max.com/PR649 for more information.

(11/14 -- PR649)

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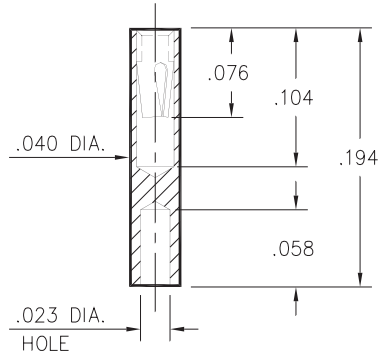
PIN RECEPTACLES

TOOLING FOR CRIMP PIN RECEPTACLES

3061-0-19-XX-21-YY-10-0

Acceptance Range .015"-.022" (0,38-0,56mm)
Accepts wire sizes 28 AWG Max. /32 AWG Min.

YY = (02, 84 or 27 contact finish ONLY)

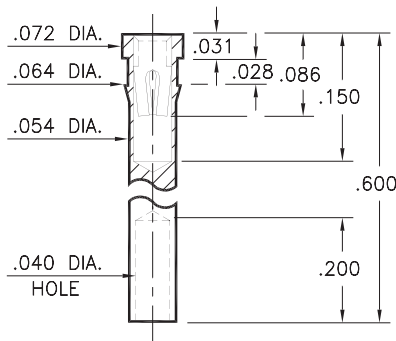


Daniels Crimp Tool [#MH992](#)
using Daniels Positioner [#K1733S](#)

1707-0-19-XX-30-YY-10-0

Acceptance Range .015"-.025" (0,38-0,64mm)
Accepts wire sizes 22 AWG Max. /24 AWG Min.

YY = (02, 84 or 27 contact finish ONLY)

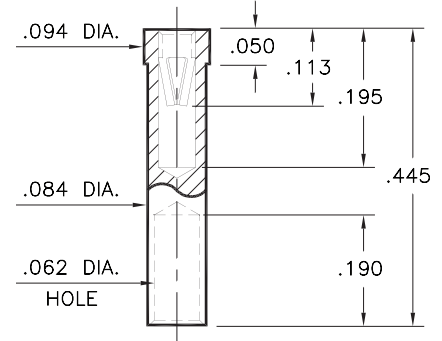


Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K1931](#)

5295-0-19-XX-06-YY-10-0

Acceptance Range .022"-.032" (0,56-0,81mm)
Accepts wire sizes 18 AWG Max. /22 AWG Min.

YY = (01, 80 or 27 contact finish ONLY)

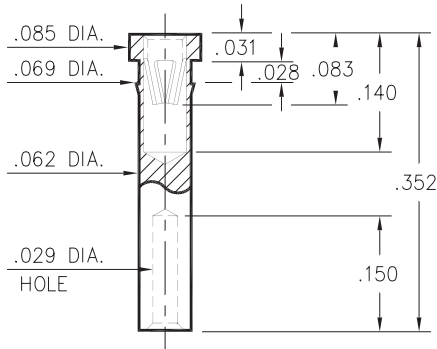


Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TP1746](#)

0303-0-19-XX-16-YY-10-0

Acceptance Range .022"-.034" (0,56-0,86mm)
Accepts wire sizes 26 AWG Max. /30 AWG Min.

YY = (01, 80 or 27 contact finish ONLY)

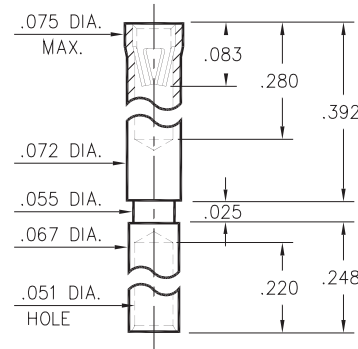


Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K937](#)

0306-0-19-XX-16-YY-10-0

Acceptance Range .022"-.034" (0,56-0,86mm)
Accepts wire sizes 20 AWG Max. /24 AWG Min.

YY = (01, 80 or 27 contact finish ONLY)

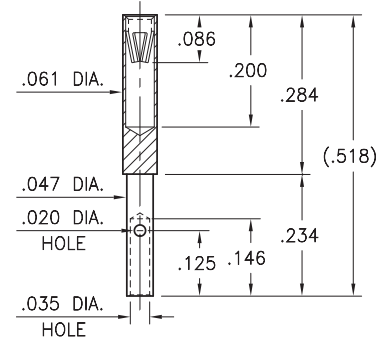


Daniels Crimp Tool [#MH800](#)
using Daniels Positioner [#K1086](#)

0722-0-33-XX-47-YY-10-0

Acceptance Range .025"-.037" (0,64-0,94mm)
Accepts wire sizes 22 AWG Max. /28 AWG Min.

YY = (01, 80 or 27 contact finish ONLY)



Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K42](#)
Daniels Crimp Tool [#MH860](#)
using Daniels Positioner [#86-6](#)

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$

Diameters: $\pm .002$

Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: **XXXX - X - XX - 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

02 100 μ " TIN/LEAD OVER NICKEL

◆ **80** 200 μ " TIN OVER NICKEL (RoHS)

◆ **84** 100 μ " TIN OVER NICKEL (RoHS)

◆ **27** 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06, #16, #21, #30, #47 CONTACT (DATA ON PAGES 251-256)
(For alternate contact choices, see groups A, C and D on page 248)



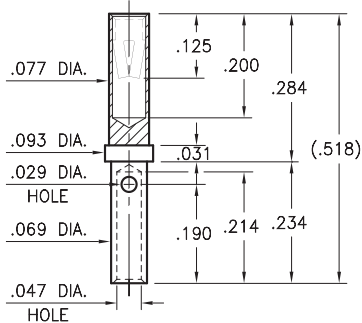
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PIN RECEPTACLES

TOOLING FOR CRIMP PIN RECEPTACLES

0720-0-33-XX-34-XX-10-0

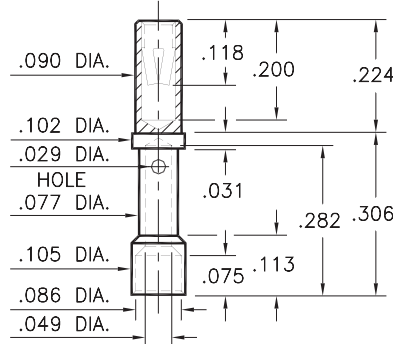
Acceptance Range .032"-.046" (0,81-1,17mm)
Accepts wire sizes 20 AWG Max. /24 AWG Min.



Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K43](#)
Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH163RED](#)
Daniels Crimp Tool [#MH860](#)
using Daniels Positioner [#86-7](#)

0348-0-33-XX-34-XX-10-0

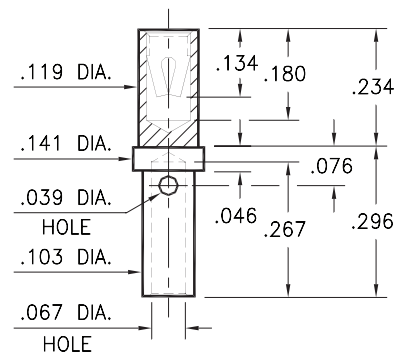
Acceptance Range .032"-.046" (0,81-1,17mm)
Accepts wire sizes 20 AWG Max. /24 AWG Min.



Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K930](#)
Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH534](#)

0368-0-33-XX-13-XX-10-0

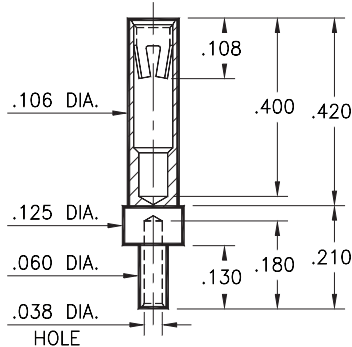
Acceptance Range .048"-.064" (1,22-1,63mm)
Accepts wire sizes 16 AWG Max. /20 AWG Min.



Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH534](#)

8730-0-19-XX-23-XX-10-0

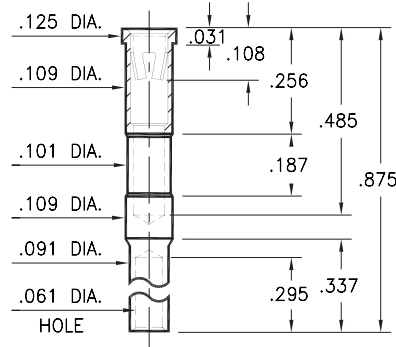
Acceptance Range .045"-.065" (1,14-1,65mm)
Accepts wire sizes 22 AWG Max. /26 AWG Min.



Daniels Crimp Tool [#AFM8](#)
using Daniels Positioner [#K1698](#)

3667-0-19-XX-23-XX-10-0

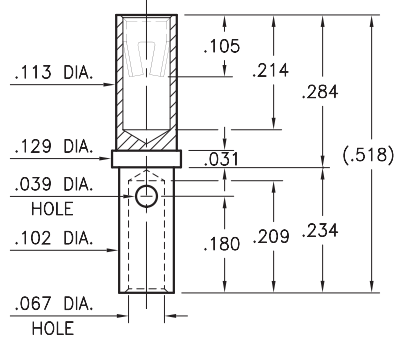
Acceptance Range .045"-.065" (1,14-1,65mm)
Accepts wire sizes 18 AWG Max. /22 AWG Min.



Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TP1541](#)

0716-0-33-XX-23-XX-10-0

Acceptance Range .045"-.065" (1,14-1,65mm)
Accepts wire sizes 16 AWG Max. /20 AWG Min.



Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH163BLUE](#)
Daniels Crimp Tool [#MH860](#)
using Daniels Positioner [#86-3](#)

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$

Diameters: $\pm .002$

Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 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:

#13, #23, #34 CONTACT (DATA ON PAGES 258-260)

(For alternate contact choices, see groups E and G on page 248)



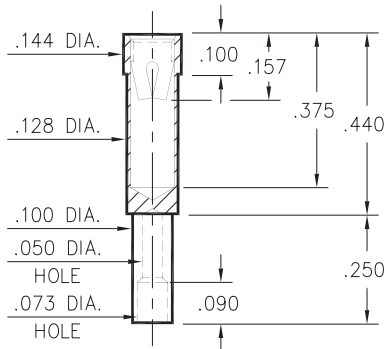
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PIN RECEPTACLES

TOOLING FOR CRIMP PIN RECEPTACLES

0370-0-19-XX-07-XX-10-0

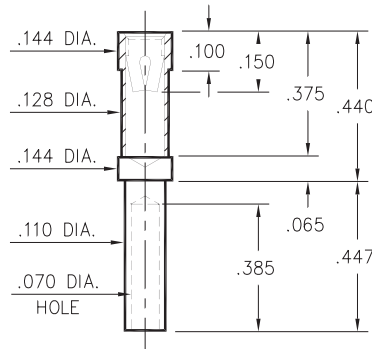
Acceptance Range .065"-.082" (1,65-2,08mm)
Accepts wire sizes 20 AWG Max. /24 AWG Min.



Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH534](#)

4040-0-19-XX-07-XX-10-0

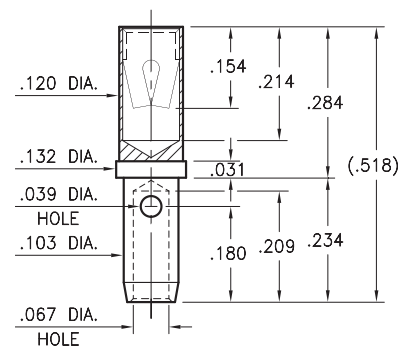
Acceptance Range .065"-.082" (1,65-2,08mm)
Accepts wire sizes 16 AWG Max. /20 AWG Min.



Daniels Crimp Tool [#M309](#)
Daniels Positioner [#TP1589](#)

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

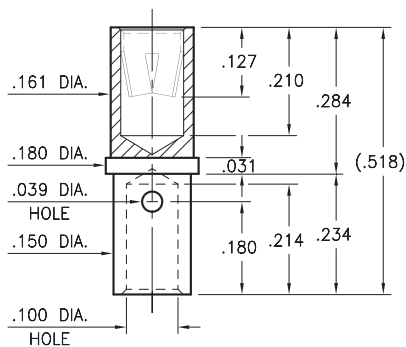
Acceptance Range .065"-.082" (1,65-2,08mm)
Accepts wire sizes 14 AWG Max. /16 AWG Min.



Daniels Crimp Tool [#AF8](#)
Positioner [#TH163BLUE](#) for 16 AWG wire
Positioner [#TH163YELLOW](#) for 14 AWG wire

0712-0-33-XX-08-XX-10-0

Acceptance Range .084"-.102" (2,13-2,59mm)
Accepts wire sizes 12 AWG Max. /14 AWG Min.



Daniels Crimp Tool [#AF8](#)
using Daniels Positioner [#TH163YELLOW](#)

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 - 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 #08 CONTACT (DATA ON PAGE 261-262)

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



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