

Online Tool Catalog - Connector Microtooling Systems, Inc. (CMS)

PART NO.	FEATURES & APPLICATIONS
01450	Bench stand for Steinel heat guns only. Heat gun can be positioned right, left or upside down.
06-1742-040 (M81969/13-01)	Insertion tool designed for Elco contacts 60-8017-03-13 and 60-8025-02-13 installed in Elco Vari-Lok rectangular rack and panel connectors.
06-1989-020	Polorizing tool designed for Elco (AVX) 8016 Series Rack & Panel Rectangular Connectors. Spanner wrench-style tool changes the position of guide pins and sockets, enabling different polarization combinations.
06-7852-01 (SP701)	Controlled cycle ratchet crimp tool designed for Elco (AVX) contacts 60-8017-0313-00-339 and 60-8017-0313-00-042 terminated to AWG 26-18 stranded wire. Equivalent to Elco (AVX) 06-7852-7002-01-000 crimp tool.
07051	39mm (1-1/2 inch) reflector nozzle for medium diameter heat shrinkable tubing applications. For use with Steinel heat guns only.
07061	9mm (3/8 inch) reflector nozzle for small diameter heat shrinkable tubing applications. For use with Steinel heat guns only.
07062	9mm (3/8 inch) reduction nozzle provides a totally concentrated pin point airflow. For use with Steinel electronic heat guns only.
07071	14mm (9/16 inch) reduction nozzle provides a totally concentrated pin point airflow. For use with Steinel electronic heat guns only.
07081	20mm (3/4 inch) reduction nozzle provides a totally concentrated pin point airflow. For use with Steinel electronic heat guns only.
07301	Large 75mm (3 inch) reflector nozzle. For use with Steinel heat guns only.
07401	Wire protection tube for Steinel heat gun nozzles. Prevents accidental contact with hot nozzles. For use with Steinel electronic heat guns only.
07461	14mm (9/16 inch) reflector nozzle specially designed for solder sleeve splices. For use with Steinel electronic heat guns only.
100	All-purpose, 5 power, illuminated, pocket magnifier. On-off switch that can be locked in the on position. Includes 2 AAA batteries.
10692 (MS3191-1)	Controlled cycle ratchet crimp tool. No dial adjustments as the positioner determines crimp depth, crimp location and point of ratchet release. Three (3) positioners included: 2520-4 (MS3191-12); 2520-3 (MS3191-16) and 11062 (MS3191-20). Contact CMS with connector or contact part numbers for other positioner recommendations.
11-01-0203 (CR6115)	Controlled cycle ratchet crimp tool designed to crimp stamped and formed Molex contacts installed in some Bendix-King connectors. Bendix-King contact numbers 030-1046-XX & 030-1107-XX series.
11-02-0001 (HT1807)	Insertion tool used on Molex 1560/1561, 1786/1787, 1797, 1854/1855, 1854/1855, 2189/2190, 4529, 4559, 6770/6772 and 7291 series terminals.
11-02-0003 (HT1353)	Insertion tool used on Molex 1190/1189, 1380/1381, 1380/1381, 1434/1433, 1434/1433, 1450/1451, 1973, 2151/2152, 2192, 2236/2237, 2269, 2273, 2282/2283, 2870/2871, 4272, 4549/4550, 6271, 6308, 6893/6894 and 7238/7239 series terminals.
11-03-0002 (HT2285)	Removal tool designed for Molex terminals 1560/1561, 1797, 1854/1855, 1854/1855, 2189/2190, 4529, 4559, 6770/6772 and 7291.
11-03-0003 (HT1884)	Removal tool designed for Molex terminals 1799, 1917, 2012, 2014, 4295, 4366, 4499, 4573 and 6043.
11-03-0006 (HT2038)	Removal tool designed for Molex terminals 1190/1189, 1380/1381, 1380/1381, 1434/1433, 1434/1433, 1450/1451, 2192, 2269, 2273, 2870/2871, 4272, 4549/4550, 6271, 6308, 6310, 6893/6894, 7238/7239, 41483, 42138 and 42478/42477.
11210 (MS3191-A)	Controlled cycle ratchet crimp tool. No dial adjustments as the positioner determines crimp depth, crimp location and point of ratchet release. Frame only - no positioners included. Contact CMS with connector or contact part numbers for positioner recommendations.
114010	Plastic removal tool designed for size 12 pin (112349 & 460-204-12141) and socket (112352 & 0462-203-12141) contacts installed in Deutsch Industrial Products "HD" Series connectors.
11707-1 (MS90413-1A)	Controlled cycle crimp tool designed to crimp size 26-14 MS25036 terminals, MS25181 splices and MS25274 endcaps. Selector knob adjustments allow a choice of precise crimp settings.
1-305183-1	Removal tool designed for pin (male) contacts installed in Tyco (AMP) "Commercial Mate-N-Lok" connectors.
1-305183-2	Removal tool designed for socket (female) contacts installed in Tyco (AMP) "Commercial Mate-N-Lok" connectors.
15-991	Economy cable tie tensioning tool designed to tension and provide a flush cut on miniature, intermediate, and standard cable ties.
169400	Certi-Lok controlled cycle crimp tool frame designed to accept crimp die assemblies which crimp MIL-T-7928 insulated and non-insulated terminals and splices. Contact CMS with terminal part numbers for die set recommendations.
169404	Crimp die set used in 169400 crimp tool frame. Designed to crimp MIL-T-7928 insulated terminals and window splices size 22-10.
260-8	Simpson 260-8 Analog VOM. For specifications go to: http://www.simpsonelectric.com/260-8.htm
294-540 (ONO89564)	Plastic insertion tool designed for size 8 coaxial contacts, ONO-89558-1 and ONO-89558-2, installed in rectangular connectors designed to the Department of Defense Specification ONO89562.
294-541 (ONO89565)	Plastic removal tool designed for size 8 coaxial contacts ONO-89558-1 and ONO-89558-2 installed in rectangular connectors designed to the Department of Defense Specification ONO89562.
299	Electrician's heavy duty, general purpose scissors with serrated outside blade edges. Overall length is 5" and blade length is 1.75".

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305183	Removal tool designed for size 16, Type II, Type III+ & Type VI, pin and socket contacts terminated to AWG 30-14 wire installed in Tyco (AMP) "Multimate" connectors.
3127CT (90312)	Ratchet controlled crimp tool used to crimp both the conductor and strain relief portion of size 28-24 Tyco (AMP) D-subminiature stamped and formed contacts.
3137CT (AD-1377)	Controlled cycle ratchet crimp tool designed for Raychem D436-36, 37, & 38 (MIL-S-81824/1, /2, & /3) environmental splices. Direct equivalent to AD-1377 shown elsewhere.
3140CT	Controlled cycle ratchet crimp tool designed to crimp both the conductor and strain relief portion of size 22-10 insulated terminals and splices in one closure. Two (2) crimp cavities.
35250 (4250)	Wire threader designed for threading wires into an already tied harness.
4140CT	Controlled cycle ratchet crimp tool designed to crimp both the conductor and strain relief portion of size 22-10 insulated terminals and splices in one closure. Three (3) crimp cavities.
41840	Steinel heat gun kit for electronic applications. Includes accessories for applying heat shrink tubing and solder sleeves. Includes the HL-1802E heat gun, 07051 reflector nozzle, 07061 reflector nozzle, 07062 reduction nozzle, 07461 reflector nozzle and guide book packaged in a durable plastic carrying case.
41-990 (MS90387-1)	Cable tie tensioning tool designed to tension and provide a flush cut on miniature, intermediate, and standard cable ties.
41-995 (MS90387-2)	Cable tie tensioning tool designed to tension and provide a flush cut on standard and heavy duty cable ties.
43040	Steinel heat gun kit for electronic applications. Includes accessories for applying heat shrink tubing and solder sleeves. Includes the HG3002LCD heat gun, 07051 reflector nozzle, 07061 reflector nozzle, 07062 reduction nozzle, 07461 reflector nozzle and guide book packaged in a durable plastic carrying case.
45-092	Stripmaster wire stripper designed to strip AWG22-10 general purpose solid and stranded wire. Knife type blades not recommended for aviation applications.
45-097	Stripmaster wire stripper designed to strip AWG26-16 general purpose solid and stranded wire. Knife type blades not recommended for aviation applications.
45-123	Shear type cutter for fine stranded wire up to 1/2" in diameter and soft, solid, copper, and aluminum wire up to AWG 10. Produces a square, clean cut without distortion and ragged strands. Vinyl coated, comfort-grip handles.
45-128	Used for stripping sheathed cable from 3/16" to 3/4" O.D. and insulation thickness up to 5/32". "Swivel blade" automatically turns to direction which tool is moved eliminating repositioning of tool for "ringing" and "slitting" operations.
45-129	Used for stripping sheathed cable from 3/4" to 1-1/2" O.D. and insulation thickness up to 5/32". "Swivel blade" automatically turns to direction which tool is moved eliminating repositioning of tool for "ringing" and "slitting" operations.
45-1608	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 Kapton and Tefzel insulated wire including MIL-W-81381/11 & MIL-W-81381/12.
45-1610	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 Tefzel, Kapton and Raychem Poly-X insulated wires including Boeing BMS13-48 and MIL-W-81044/16 & MIL-W-81044/17.
45-1611	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 Tefzel, Kapton and Raychem Poly-X insulated wires including Boeing BMS13-48 and MIL-W-22759/16, MIL-W-22759/17, MIL-W-22759/34, MIL-W-22759/35, MIL-W-22759/41, MIL-W-22759/42, MIL-W-22759/43.
45-162	Coaxial cable stripper for cable diameters up to 1/8" including RG-174 & RG-187. Adjustable blades can be set to ensure nick-free strips to specification. Can also be used for shielded and unshielded twisted pair, SO, SJ & SJT flexible power cords.
45-163	Coaxial cable stripper for 1/8" to 7/32" cable diameters including RG-58. Adjustable blades can be set to ensure nick-free strips to specification. Can also be used for shielded and unshielded twisted pair, SO, SJ & SJT flexible power cords.
45-164	Coaxial cable stripper for 1/4" to 9/16" cable diameters including RG-8. Adjustable blades can be set to ensure nick-free strips to specification. Can also be used for shielded and unshielded twisted pair, SO, SJ & SJT flexible power cords.
45-165	Coaxial cable stripper for 3/16" to 5/16" cable diameters including RG-59. Adjustable blades can be set to ensure nick-free strips to specification. Can also be used for shielded and unshielded twisted pair, SO, SJ & SJT flexible power cords.
45-1654 (ST2222-29)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 Kapton and Tefzel insulated wire including Boeing BMS13-16 and MIL-W-81381/11 & MIL-W-81381/12.
45-170	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 general purpose insulated wire including MIL-W-5086/1 & MIL-W-5086/7.
45-171	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 general purpose insulated wire including MIL-W-5086/1 & MIL-W-5086/7.
45-174	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 Type EE (1000 volt) Teflon insulated wire .
45-1987	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 wire insulated with Tefzel, Kapton and Raychem Poly-X including Boeing BMS13-48 and MIL-W-81044/16 & MIL-W-81044/17.

Tooling may be purchased from **Connector Microtooling Systems, Inc.**
 Telephone: 817-303-8270 Fax: 817-303-8273 Web: www.cms-tools.com
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45-223	Shear type cutter for fine stranded wire up to 1/2" in diameter and soft, solid, copper, and aluminum wire up to AWG 10. Produces a square, clean cut without distortion and ragged strands. With vinyl coated, cushion grips, this is the Premium version of the 45-123.
45-2541 (ST2222-41)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 Boeing BMS13-60, Type I thru VI, medium wall insulated wire.
45-2542 (ST2222-44)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 Boeing BMS13-60, Type XIII thru XVI medium wall insulated wire.
45-2543 (ST2222-40)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 24-16 Boeing BMS13-60, Type I thru VI, thin wall insulated wire.
45-2544 (ST2222-45)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 24-16 Boeing BMS13-60, Type XIII thru XVI thin wall insulated wire.
45-2564 (ST2222-42)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 24-16 Boeing BMS13-60, Type VII thru XII thick wall insulated wire.
45-2565 (ST2222-43)	Custom Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 14-10 Boeing BMS13-60, Type VII thru XII thick wall insulated wire.
45-416	Premium T-6 Wire Stripper. For use on AWG 26-16 insulated wire. Ergonomic handle designed for maximum comfort to reduce wrist fatigue. Not approved for aviation wiring.
45-508	Coaxial cable stripper designed for 2 or 3 step stripping of RG-58 coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-509	Coaxial cable stripper designed for 2 or 3 step stripping of Belden 8281 coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-510	Coaxial cable stripper designed for 2 or 3 step stripping of RG-8/U & RG-11/U coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-512	Coaxial cable stripper designed for 2 or 3 step stripping of RG-174 coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-513	Coaxial cable stripper designed for 2 or 3 step stripping of RG-6 coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-515	Coaxial cable stripper designed for 2 or 3 step stripping of Thinnet coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-516	Coaxial cable stripper designed for 2 or 3 step stripping of Ethernet (thicknet) coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
45-517	Coaxial cable stripper designed for 2 or 3 step stripping of RG-59 coax cable. Retractable spring loaded blade automatically adjusts to required strip depth as it cuts.
455822-2	Removal tool designed for pin and socket contacts installed in Tyco (AMP) "Miniature Rectangular or Miniature Universal Mate-N-Lok" rectangular connectors.
455830-1	Insertion tool designed for pin and socket contacts installed in various Tyco (AMP) Universal Mate-N-Lok rectangular connectors. This tweezer shaped tool features two grooved insertion tips for grasping the wire connected to the contact.
55-1987	*** NEW DESIGN *** Ergo-Elite Stripmaster wire stripper with precision machined, die-type blades, designed to strip AWG 26-16 Tefzel, Kapton and Raychem Poly-X insulated wires including Boeing BMS13-48 and MIL-W-81044/16 & MIL-W-81044/17.
58433-3	Controlled cycle ratchet crimp tool designed to crimp both the conductor and strain relief portion of size 22-10 Tyco (AMP) PIDG and Plasti-Grip insulated terminals and splices in one closure.
58448-2 (90312)	Ratchet controlled crimp tool used to crimp both the conductor and strain relief portion of size 28-24 Tyco (AMP) D-subminiature stamped and formed contacts.
59250	T-Head controlled cycle ratchet crimp tool designed for size 22-16 Tyco (AMP) PIDG and Plasti-Grip insulated terminals and splices.
59275	T-Head controlled cycle ratchet crimp tool designed for size 26-22 Tyco (AMP) PIDG and Plasti-Grip insulated terminals and splices.
59300	T-Head controlled cycle ratchet crimp tool designed for size 24-16 Tyco (AMP) PIDG and Plasti-Grip insulated terminals and splices.
59975-1	Hand held hydraulic crimp tool designed to crimp AMP Solistrand non-insulated terminals and splices terminated to AWG 8 through AWG 2 cables. No dies required.
601075-1	Rota-Crimp controlled cycle ratchet crimp tool designed for use on Tyco (AMP) Solistrand non-insulated terminals and splices to AWG 8-1/0 cable. Internal die is rotated to select the proper crimp size.
612118	Micro adjustable, controlled cycle ratchet crimp tool, 8 indent crimp, crimp depth adjustments from .015" to .043" for size 20 and smaller machined contacts. Numerous locators available. Contact CMS with connector or contact part numbers for locator recommendations.
612118SS	Micro adjustable, controlled cycle ratchet crimp tool, 8 indent crimp, crimp depth adjustments from .015" to .043" for size 20 and smaller machined contacts. Special indenters designed for hard contacts such as stainless steel. Contact CMS with connector or contact part numbers for locator recommendations.

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612385SS	Micro-thread adjustable, controlled cycle ratchet crimp tool with special conical indenters designed for joining stainless steel hypo-tube and stainless steel wire with a 4-indent crimp. Crimp depth is determined by loosening the lock nut and adjusting the limit screw.
612548	Controlled cycle crimp tool, 8 indent, features a micrometer type adjusting knob providing continuously variable adjustments for precise crimp depths. Can be adjusted and set at crimp depths ranging from .025 to .075 inches allowing settings to be within .001 inch. With the appropriate locator attached, it can crimp contact sizes 12 and smaller to wire sizes AWG 26-12. Numerous locators available. Contact CMS with connector or contact part numbers for locator recommendations.
612548SS	Controlled cycle crimp tool, 8 indent, features a micrometer type adjusting knob providing continuously variable adjustments for precise crimp depths. Can be adjusted and set at crimp depths ranging from .025 to .075 inches allowing settings to be within .001 inch. Special indenters designed for hard contacts such as stainless steel. With the appropriate locator attached, it can crimp contact sizes 12 and smaller to wire sizes AWG 26-12. Numerous locators available. Contact CMS with connector or contact part numbers for locator recommendations.
612648 (M22910/7-1)	Controlled cycle, C-frame crimp tool which uses interchangeable pop-in die sets for either MS or proprietary applications including BNC, TNC, and N series RF connectors. Numerous die sets available. Contact CMS with connector part numbers for die set recommendations.
615179	Adjustable bayonet positioner used with 615717 crimp tool frame for size 20 and smaller pin and socket contacts. Should only be used when the proper positioner is not available. Careful inspection of crimped contact is a necessity.
615478	Bayonet positioner used with 615717 crimp tool frame on Deutsch "RSM and TJ" series machined contacts 2841-5-**00, 2803-4-**00, 2841-13-**00, 2803-10-**00 and 100060-**. Asteriks indicate additional letter or numbers.
615708 (M22520/1-01)	Crimp tool designed for machined pin and socket contacts with wire barrel sizes 20-12. Dial Selectable, 8 indent crimp, controlled cycle ratchet - requires a turret head or positioner determined by the contact part number. Contact CMS with connector or contact part numbers for turret recommendations.
615709 (M22520/1-02)	Turret head used with 615708 crimp tool frame on size 20-12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors. Contact numbers: MS3162, MS3163, MS3192, MS3193, MS18134, MS18136, MS24254, MS24255, MS90453, 90454, M39029/1-101, M39029/1-102, M39029/1-103, M39029/2-105, M39029/2-106, M39029/3-108, M39029/3-109, M39029/4-110, M39029/4-111, M39029/4-112, M39029/4-113, M39029/4-114, M39029/5-115, M39029/5-116, M39029/5-117, M39029/5-118, M39029/5-119, M39029/9-132, M39029/9-133, M39029/9-134, M39029/9-135, M39029/9-136, M39029/10-138, M39029/10-139, M39029/10-140, M39029/10-141, M39029/10-142, M39029/11-146, M39029/12-150, M39029/12-212, M39029/12-213, M39029/30-217, M39029/30-218, M39029/30-219, M39029/31-223, M39029/31-224, M39029/31-226, M39029/31-227, M39029/31-228, M39029/31-229, M39029/31-230, M39029/31-231, M39029/31-232, M39029/31-233, M39029/31-234, M39029/31-235, M39029/31-236, M39029/31-237, M39029/31-238, M39029/31-239, M39029/31-240, M39029/31-241, M39029/31-242, M39029/31-243, M39029/31-244, M39029/31-245, M39029/31-246, M39029/31-247, M39029/31-248, M39029/31-249, M39029/31-250, M39029/31-251, M39029/31-252, M39029/31-253, M39029/31-254, M39029/31-255, M39029/31-256, M39029/31-257, M39029/31-258, M39029/31-259, M39029/31-260, M39029/31-448, M39029/31-449, M39029/44-287, M39029/44-288, M39029/44-289, M39029/44-290, M39029/45-294, M39029/45-295, M39029/45-296, M39029/45-297, M39029/85-454, M39029/85-455, M39029/85-456, M39029/85-457, M39029/85-458, M39029/85-459, M39029/85-450, M39029/85-460, M39029/85-461, M39029/86-462, M39029/86-463, M39029/86-464, M39029/86-465, M39029/86-466, M39029/86-467, M39029/86-468, M39029/86-469, M39029/86-510, M39029/86-511, M39029/86-512, M39029/86-513, M39029/92-532, M39029/92-533, M39029/92-534, M39029/92-535, M39029/92-536, M39029/93-539, M39029/94-543
615710 (M22520/1-03)	Turret head used with 615708 crimp tool frame on size 20-12 pin and socket contacts installed in MIL-C-38999 connectors. Contact numbers: MS27490-12, MS27490-16, MS27490-20, MS27491-12, MS27491-16, MS27491-20, MS274492-12, MS27492-16, MS27492-20, MS27493-12, MS27493-16, MS27493-20, MS27494-12, MS27494-16, MS27494-20, M39029/56-351, M39029/56-352, M39029/56-353, M39029/57-357, M39029/57-358, M39029/57-359, M39029/58-363, M39029/58-364, M39029/58-365, M39029/87-474, M39029/87-475, M39029/87-476, M39029/87-477, M39029/87-478, M39029/87-479, M39029/87-480, M39029/87-481, M39029/88-486, M39029/88-487, M39029/88-488, M39029/88-489, M39029/88-490, M39029/88-491, M39029/88-492, M39029/88-493, M39029/89-498, M39029/89-499, M39029/89-500, M39029/89-501, M39029/89-502, M39029/89-503, M39029/89-504, M39029/89-505
615711 (M22520/1-04)	Turret head used with 615708 crimp tool frame on size 20-12 pin and socket contacts installed in MIL-C-38999 connectors. Contact numbers: MS27490-12, MS27490-16, MS27490-20, MS27491-12, MS27491-16, MS27491-20, MS274492-12, MS27492-16, MS27492-20, MS27493-12, MS27493-16, MS27493-20, MS27494-12, MS27494-16, MS27494-20, M39029/56-351, M39029/56-352, M39029/56-353, M39029/57-357, M39029/57-358, M39029/57-359, M39029/58-363, M39029/58-364, M39029/58-365, M39029/87-474, M39029/87-475, M39029/87-476, M39029/87-477, M39029/87-478, M39029/87-479, M39029/87-480, M39029/87-481, M39029/88-486, M39029/88-487, M39029/88-488, M39029/88-489, M39029/88-490, M39029/88-491, M39029/88-492, M39029/88-493, M39029/89-498, M39029/89-499, M39029/89-500, M39029/89-501, M39029/89-502, M39029/89-503, M39029/89-504, M39029/89-505
615712 (M22520/1-05)	Adjustable positioner used with 615708 crimp tool frame for size 20-12 pin and socket contacts. Should only be used when the proper positioner and/or turret head is not available. Careful inspection of crimped contact is a necessity.
615713 (M22520/1-06)	Single position head used with 615708 crimp tool frame on OS12814 Type M machined contacts.
615715 (M22520/1-08)	Turret head used with 615708 crimp tool frame on size 20, 16 and 12 pin and socket contacts MS3343 (A & B), MS90460 (A & B), M39029/33-266, M39029/33-268, M39029/33-270, M39029/46-306, M39029/46-308, M39029/46-310, M39029/47-316, M39029/47-337 and M39029/47-339
615716 (M22520/3-01)	Calibration gage (Go, No-Go) used on 615708 and 615717 crimp tools.

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615717 (M22520/2-01)	Crimp tool designed for machined pin and socket contacts with wire barrel sizes 20-28. Dial selectable, 8 indent crimp, controlled cycle ratchet - requires appropriate bayonet positioner determined by the contact part number. Contact CMS with connector or contact part numbers for positioner recommendations.
615718 (M22520/2-02)	Bayonet positioner used with 615717 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors. Contact numbers: MS3192-20-20, MS3193-20-20, MS24254-20P, MS24254-20S, MS18134-20, MS18136-20, M39029/4-110, M39029/5-115, M39059/9-132, M39059/9-133, M39059/9-134, M39059/9-135, M39059/9-136, M39029/10-138, M39029/10-139, M39029/10-140, M39029/10-141, M39029/10-142, M83723/33-20, M83723/34-20, M39029/31-223, M39029/31-224, M39029/31-225, M39029/31-226, M39029/31-227, M39029/31-240, M39029/31-241, M39029/31-448, M39029/32-242, M39029/32-243, M39029/32-245, M39029/32-246, M39029/32-259, M39029/32-260, M39029/32-449, M39029/92-532
615719 (M2250/2-03)	Bayonet positioner used with 615717 crimp tool for pin and socket contacts installed in MIL-C-81511 Series 1 & 2 front release circular connectors. Contact numbers: MS3343-23-22 (A&B), MS3343-23-28 (A&B), MS90460-23-22 (A&B), MS90460-23-28 (A&B), MS90461-23-22 (A&B), MS90461-23-28 (A&B), M39029/33-262, M39029/33-264, M39029/46-301, M39029/46-302, M39029/46-303, M39029/46-304, M39029/47-311, M39029/47-312, M39029/47-313, M39029/47-314
615720 (M22520/2-04)	Bayonet positioner used with 615717 crimp tool for inner pin and socket contacts terminated to RG-178/U and RG-196/U coaxial cables. Contact numbers: MS18232-1, MS18233-1, MS18265-1, MS18265-2, MS18266-1, MS18266-2, M39029/40-281, M39029/41-282, M39029/42-283, M39029/42-284, M39029/43-285 and M39029/43-286
615721 (M22520/2-05)	Bayonet positioner used with 615717 crimp tool frame on machined contact M21097/9-01.
615722 (M22520/2-06)	Bayonet positioner used with 615717 crimp tool frame on size 22 socket (female) contacts installed in MIL-C-24308 subminiature rectangular and MIL-C-38999 circular connectors. Contact numbers: MS27491-22, MS27491-22M, MS27491-22D, MS27492-22, MS27492-22M, MS27492-22D, M24308/12-1, M39029/57-354, M39029/57-355, M39029/57-356, M39029/89-494, M39029/89-495, M39029/89-496, M39029/89-497, M39029/92-351
615723 (M22520/2-07)	Bayonet positioner used with 615717 crimp tool frame on size 22 socket (female) contacts installed in MIL-C-38999 circular connectors. Contact numbers: MS27490-22, MS27490-22M, MS27490-22D, M39029/56-348, M39029/56-349, M39029/56-350, M39029/88-492, M39029/88-483, M39029/88-484, M39029/88-485
615724 (M22520/2-08)	Bayonet positioner used with 615717 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-24308, MIL-C-81659, MIL-STD-1549, ARINC 404, and ARINC 600 rectangular connectors. Contact numbers: M24308/10-1, M24308/11-1, M39029/11-145, M39029/12-149, M39029/63-368, M39029/64-369, M39029/67-374, M39029/67-375, M39029/67-376, M39029/67-377, M39029/67-378, M39029/68-379, M39029/68-380, M39029/68-381, M39029/68-382, M39029/68-383, M39029/93-538, M39029/94-542
615725 (M22520/2-09)	Bayonet positioner used with 615717 crimp tool frame on size 22 pin (male) contacts installed in MIL-C-24308 subminiature rectangular and MIL-C-38999 circular connectors. Contact numbers: MS27493-22, MS27493-22M, MS27493-22D, MS27494-22, MS27494-22M, MS27494-22D, MS24308/13-1, M39029/58-360, M39029/58-361, M39029/58-362, M39029/87-470, M39029/87-471, M39029/87-472, M39029/87-473
615726 (M22520/2-10)	Bayonet positioner used with 615717 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-38999 circular connectors. Contact numbers: MS27490-20, MS27491-20, MS27492-20, MS27493-20, MS27494-20, M39029/56-351, M39029/57-357, M39029/58-363, M39029/87-474, M39029/87-475, M39029/87-476, M39029/87-477, M39029/88-486, M39029/88-487, M39029/88-488, M39029/88-489, M39029/89-498, M39029/89-499, M39029/89-500, M39029/89-501
615727 (M22520/2-11)	Bayonet positioner used with 615717 crimp tool frame on size 20 and 22 pin and socket contacts installed in MIL-C-81659 Series 1 and MIL-T-81714 terminal junctions and disconnectable wire splices. Contact numbers: M39029/1-100, M39029/1-101, M39029/2-104, M39029/2-105, M39029/3-107, M39029/3-108
615729 (M22520/2-12)	Bayonet positioner used with 615717 crimp tool frame on inner pin and socket contacts installed in MIL-C-24308 subminiature rectangular connectors terminated to RG-174, RG-178, RG-188, and RG-196 coaxial cables. Contact numbers: M24308/14, M24308/15, M39029/65-370, M39029/65-371, M39029/66-372, M39029/66-373
615821 (M22520/1-09)	Single position head used with 615708 crimp tool frame on size 12 pin (M39029/18-12-12, M39029/18-180) and socket (M39029/16-12-12, M39029/16-170) contacts installed in MIL-C-81511 Series 4 rear release circular connectors.
616031 (M22520/2-13)	Bayonet positioner used with 615717 crimp tool frame on size 22 pin and socket contacts installed in MIL-C-29699 and MIL-C-81511 Series 3 & 4 rear release circular connectors. Contact numbers: M39029/16-23-22, M39029/16-23-28, M39029/18-23-22, M39029/18-23-28, M39029/16-166, M39029/16-167, M39029/18-176, M39029/18-177
616032 (M22520/2-14)	Bayonet positioner used with 615717 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-29699 and MIL-C-81511 Series 3 & 4 circular connectors. Contact numbers: M39029/16-20-20, M39029/18-20-20, M39029/16-168, M39029/18-178
616033 (M22520/2-15)	Bayonet positioner used with 615717 crimp tool frame on size 16 pin (M39029/18-16-16, M39029/18-179) and socket (M39029/16-16-16, M39029/16-169) contacts installed in MIL-C-81511 Series 4 rear release circular connectors.
616034 (M22520/2-16)	Bayonet positioner used with 615717 crimp tool frame on socket (female) contacts installed in MIL-C-81511 Series 3 rear release circular connectors. Contact numbers: M39029/17-23-22, M39029/17-23-28, M39029/17-171, M39029/17-172
616035 (M22520/2-17)	Bayonet positioner used with 615717 crimp tool frame on size 20 socket (female) contacts M39029/17-20-20, M39029/17-173 installed in MIL-C-81511 Series 3 rear release circular connectors.
616036 (M22520/2-18)	Bayonet positioner used with 615717 crimp tool frame on size 16 socket (female) contact M39029/17-16-16, M39029/17-174 installed in MIL-C-81511 Series 3 rear release circular connectors.

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616037 (M22520/2-19)	Bayonet positioner used with 615717 crimp tool frame on size 22 socket (female) contacts M39029/15-22-22, M39029/15-22-28, M39029/22-190 and M39029/22-191 installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 common terminal system.
616038 (M22520/2-20)	Bayonet positioner used with 615717 crimp tool frame on machined contact M39029/15-20-20 or M39029/15-164.
616039 (M22520/2-21)	Bayonet positioner used with 615717 crimp tool frame on machined contact M39029/15-16-16 or M39029/15-165.
616191 (M22520/2-23)	Bayonet positioner used with 615717 crimp tool frame on size 22 pin and socket contacts installed in MIL-C-81659, MIL-C-83733, ARINC 404, and ARINC 600 rectangular connectors. Contact numbers: M39029/11-22-22, M39029/12-22-22, M39029/11-144, M39029/12-148, M39029/93-537, M39029/94-541
616228	Turret head used with 615708 crimp tool frame for size 20, 16, and 12 pin and socket contacts installed in Deutsch "DS" Series circular front release connectors. Contact numbers: 800-12/30-3, 800-12/32-3, 800-16/30-3, 800-16/32-1, 800-20/28-1, 800-20/30-1, 800-20/32-1
616260 (M22520/2-24)	Bayonet positioner used with 615717 crimp tool frame on size 8 inner pin and socket contacts ONO89558, M39029/54-343 and M39029/55-345 terminated to RG-180B/U.
616266	Turret head used with 615708 crimp tool frame for size 16 & 12 pin and socket contacts installed in Amphenol (Bendix) "10-244XXX, AN/MS, PT-CE, PT-SE and QWL" Series circular front release connectors. Contact numbers: 10-40552, 10-40553, 10-40554, 10-40555, 10-40556, 10-40557, 10-40558, 10-40599, 10-40560, 10-40561, 10-113239-12, 10-113239-15, 10-113239-16, 10-229192-126, 10-229192-156, 10-229192-166, 10-229193-126, 10-229193-156, 10-229193-166
616327 (M22520/7-02)	Bayonet positioner used with 616336 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors. Contact numbers: MS3192A20A, MS3193A20A, MS24254-20P, MS24255-20S, M83723/33B20, M83723/34B20, NAS1662-20, NAS1663/20, M39029/4-110, M39029/5-115, M39029/11-145, M39029/12-149, M39029/31-223, M39029/31-224, M39029/31-225, M39029/31-226, M39029/31-227, M39029/31-240, M39029/31-241, M39029/31-448, M39029/32-242, M39029/32-243, M39029/32-224, M39029/32-245, M39029/32-246, M39029/32-259, M39029/32-260, M39029/32-449, M39029/92-532, M39029/93-538, M39029/94-542
616328 (M22520/7-03)	Bayonet positioner used with 616336 crimp tool frame on size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors. Contact numbers: MS3192-16A, MS3193-16A, MS24254-16P, MS24255-16S, M39029/4-11, M39029/4-112, M39029/5-116, M39029/5-117, M39029/11-146, M39029/12-150, M39029/29-212, M39029/31-228, M39029/31-229, M39029/31-230, M39029/31-231, M39029/31-232, M39029/31-233, M39029/32-247, M39029/32-248, M39029/32-249, M39029/32-250, M39029/32-251, M39029/32-252, M39029/85-454, M39029/85-454, M39029/85-456, M39029/85-457, M39029/86-462, M39029/86-463, M39029/86-464, M39029/86-465, M39029/86-510, M39029/86-511, M39029/86-512, M39029/86-513, M39029/92-533, M39029/92-534, M39029/93-539, M39029/94-543
616329 (M22520/7-04)	Bayonet positioner used with 616336 crimp tool frame on size 16 pin and socket contacts installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/56-352, M39029/57-358, M39029/58-364, M39029/87-478, M39029/87-479, M39029/87-480, M39029/87-481, M39029/88-490, M39029/88-491, M39029/88-492, M39029/88-493, M39029/89-502, M39029/89-503, M39029/89-504 and M39029/89-505
616330 (M22520/7-05)	Bayonet positioner used with 616336 crimp tool frame on size 22 socket (female) contacts installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/56-348, M39029/56-349, M39029/56-350, M39029/88-482, M39029/88-483, M39029/88-484, M39029/88-485
616331 (M22520/7-06)	Bayonet positioner used with 616336 crimp tool frame on size 22 socket (female) contacts installed in MIL-C-24308 subminiature rectangular and MIL-C-38999 circular connectors. Contact numbers: MS27491-22, MS27491-22M, MS27491-22D, MS27492-22, MS27492-22M, MS27492-22D, M39029/57-354, M39029/57-355, M39029/57-356, M39029/89-494, M39029/89-494, M39029/89-494, M39029/89-495, M39029/89-496, M39029/89-497
616332 (M22520/7-07)	Bayonet positioner used with 616336 crimp tool frame on size 22 pin (male) contacts installed in MIL-C-24308, MIL-C-38999 and MIL-C-83733 rear release connectors. Contact numbers: MS27493-22, MS27493-22M, MS27493-22D, MS27494-22, MS27494-22M, MS27494-22D, M39029/58-360, M39029/58-361, M39029/58-362, M39029/87-470, M39029/87-471, M39029/87-472, M39029/87-473
616333 (M22520/7-08)	Bayonet positioner used 616336 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-38999 rear release circular connectors. Contact numbers: MS27490-20, MS27491-20, MS27492-20, MS27493-20, MS27494-20, MS27655-20, M39029/56-351, M39029/57-357, M39029/58-363, M39029/87-474, M39029/87-475, M39029/87-476, M39029/87-477, M39029/88-486, M39029/88-487, M39029/88-488, M39029/88-489, M39029/89-498, M39029/89-499, M39029/89-500, M39029/89-501
616334 (M22520/7-09)	Bayonet positioner used with 616336 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-81511 Series 1 & 2 front release circular connectors. Contact numbers: MS3343A-20-20, MS3343B-20-20, MS90460A-20-20, MS90460B-20-20, MS90461A-20-20, MS90461B-20-20, M39029/33-266, M39029/46-306, M39029/47-316
616335 (M22520/7-08)	Bayonet positioner used with 616336 crimp tool frame on size 20 pin and socket contacts installed in MIL-C-38999 rear release circular connectors. Contact numbers: MS27490-20, MS27491-20, MS27492-20, MS27494-20, M39029/56-351, M39029/57-357, M39029/58-363, M39029/87-474, M39029/87-475, M39029/87-476, M39029/87-477, M39029/88-486, M39029/88-487, M39029/88-488, M39029/88-489, M39029/89-498, M39029/89-499, M39029/89-500 and M39029/89-501
616336 (M22520/7-01)	Crimp tool for machined pin and socket contacts with wire barrel sizes 22-16. Dial selectable, 8 indent crimp, controlled cycle ratchet - requires appropriate bayonet positioner determined by the contact part number. Contact CMS with connector or contact part numbers for positioner recommendations.

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616337 (M22520/3-03)	Calibration gage (Go, No-Go) used on 616336 crimp tool.
616356	Turret head used with 615708 crimp tool frame for contacts installed in ITT-Cannon "D*U Burgun D" Series D-subminiature rear release rectangular connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000, 030-2060-000, 030-2061-000, 030-2062-000 and 030-2063-000
616406 (M22520/1-11)	Single position head used with 615708 crimp tool frame on size 12 pin (M39029/11-147) and socket (M39029/12-151) contacts installed in MIL-C-81659 Series 2 (ARINC 404) rear release rectangular rack and panel connectors.
616407 (M22520/1-12)	Turret head used with 615708 crimp tool frame on coaxial connector center contacts terminated to RG-122, RG-142, RG-180, RG-195 and RG-400 cables. Contact numbers: M39012/16-0501, M39012/16-0502, M39012/16-0503, M39012/17-0501, M39012/17-0502, M39012/17-0503, M39012/18-0501, M39012/18-0502, M39012/18-0503, M39012/19-0501, M39012/19-0502, M39012/19-0503, M39012/20-0501, M39012/20-0502, M39012/20-0503, M39012/26-0501, M39012/26-0502, M39012/26-0503, M39012/27-0501, M39012/27-0502, M39012/27-0503, M39012/28-0501, M39012/28-0502, M39012/28-0503, M39012/29-0501, M39012/29-0502, M39012/29-0503, M39012/30-0501, M39012/30-0502, M39012/30-0503
616408 (M22520/1-13)	Turret head used with 615708 crimp tool frame on coaxial connector center contacts terminated RG-142, RG-213, RG-214, RG-255, RG-393 and RG-400 cables. Contact numbers: M39012/1-0501, M39012/1-0502, M39012/1-0503, M39012/2-0501, M39012/2-0502, M39012/2-0503, M39012/2-0511, M39012/2-0512, M39012/2-0513, M39012/5-0501, M39012/5-0502, M39012/5-0503, M39012/39-0501, M39012/39-0503
616409 (M22520/1-14)	Turret head used with 615708 crimp tool frame on coaxial connector center contacts terminated to RG-142, RG-213, RG-214, RG-255, RG-393 and RG-400 cables. Contact numbers: M39012/3-0501, M39012/3-0502, M39012/3-0503, M39012/35-0501, M39012/35-0503, M39012/36-0501, M39012/36-0503, M39012/38-0501, M39012/38-0503, M39012/40-0501, M39012/40-0503
616411 (M22520/2-25)	Bayonet positioner used with 615717 crimp tool frame on size 12 pin and socket contacts installed in MIL-C-81511 Series 1 & 2 front release circular connectors. Contact numbers: M39029/6-121, M39029/6-122, M39029/6-123, M39029/6-124, M39029/6-125, M39029/13-153, M39029/13-154, M39029/13-155, M39029/13-156, M39029/13-157, M39029/14-159, M39029/14-160, M39029/14-161, M39029/14-162 and M39029/14-163
616412 (M22520/2-26)	Bayonet positioner used with 615717 crimp tool frame on size 16 pin and socket contacts installed in MIL-C-81511 Series 1 & 2 front release circular connectors. Contact numbers: M39029/6-120, M39029/13-152 and M39029/14-158
616413 (M22520/2-27)	Bayonet positioner used with 615717 crimp tool frame on size 12 pin and socket contacts installed in MIL-C-26482 Series 2 and MIL-C-81703 Series 3 rear release circular connectors. Contact numbers: M39029/7-126, M39029/7-127, M39029/7-128, M39029/8-129, M39029/8-130 and M39029/8-131
616415 (M22520/2-29)	Bayonet positioner used with 615717 crimp tool frame on size 12 pin and socket contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors. Contact numbers: M39029/19-182, M39029/19-183, M39029/20-185, M39029/20-186, M39029/21-188, M39029/21-189
616416 (M22520/2-30)	Bayonet positioner used with 615717 crimp tool frame on inner pin (M39029/50-340) and socket (M39029/51-341) contacts terminated to RG-179/U coaxial cable in MIL-C-83733 rear release rectangular rack and panel connectors.
616417 (M22520/2-31)	Bayonet positioner used with 615717 crimp tool frame on inner pin (M39029/60-367) and socket (M39029/59-366) contacts terminated to RG-180A/U, RG-180B/U and RG-195A/U coaxial cables in MIL-C-38999 Series rear release circular connectors.
616442	Turret head used with 615708 crimp tool frame on size 16 and 20 pin (10-189000-20F, 10-189004-16F, 10-195962-20F) and socket (10-189006-16F, 10-195963-20F, 10-597817-351) contacts installed in Amphenol (Bendix) "PT-CE" Series front release circular connectors.
616445	Bayonet positioner used with 615717 crimp tool frame on size 20 pin and socket contacts installed in Deutsch "DS" Series front release connectors. Contact numbers: 800-20/32-1, 800-20/30-1 and 800-20/28-1.
620083 (M22520/7-11)	Bayonet positioner used with 616336 crimp tool frame on size 22 socket (M39029/22-190, M39029/22-191, M39029/101-551, M39029/101-552) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules.
620084 (M22520/7-12)	Bayonet positioner used with 616336 crimp tool frame on size 20 socket (M39029/22-192, M39029/101-553) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules.
620085 (M22520/7-13)	Bayonet positioner used with 616336 crimp tool frame on size 16 socket (M39029/22-193, M39029/101-554) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules.
620172 (M22520/1-16)	Single position head used with 615708 crimp tool frame on size 12 socket (MS27492-12 or M39012/57-359) contacts installed in MIL-C-38999 Series 2 rear release circular connectors.
620175 (M22520/5-01)	Standard C-frame crimp tool which accepts interchangeable die sets (M22520/5-xx) to crimp a wide range of military and proprietary coaxial and triaxial connectors and contacts. Numerous die sets available. Contact CMS with connector part numbers for die set recommendations.
620215 (M22520/10-01)	Miniature C-frame crimp tool which accepts interchangeable die sets (M22520/10-xx) to crimp a wide range of military and proprietary coaxial and triaxial connectors and contacts. Numerous die sets available. Contact CMS with connector part numbers for die set recommendations.
620261 (M22520/2-32)	Bayonet positioner used with 615717 crimp tool frame on shielded size 12 pin and socket contacts installed in MIL-C-26482 Series 1 front release circular connectors. Contact numbers: M39029/25-204, M39029/25-205, M39029/25-206, M39029/25-207, M39029/25-208, M39029/25-209
620291 (M22520/5-03)	Die set with 2 cavities used with 620175 crimp tool frame which produces .128" and .105" hex crimps. Most commonly used to crimp "BNC & SMA" coax connectors terminated to RG-174, RG-179, RG-187, RG-188 and RG-316 coaxial cables.

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620292 (M22520/5-04)	Die set with 2 cavities used with 620175 crimp tool frame which produces .138" and .118" hex crimps.
620293 (M22520/5-05)	Die set with 2 cavities used with 620175 crimp tool frame which produces .213" and .178" hex crimps. Most commonly used to crimp "Mini-UHF" coax connectors terminated to RG-58, RG-58A, RG-58B and RG-58C coaxial cables.
620295 (M22520/5-07)	Die set with 1 cavity used with 620175 crimp tool frame which produces .255" hex crimp.
620296 (M22520/5-08)	Die set with 1 cavity used with 620175 crimp tool frame which produces .128" hex crimp.
620297 (M22520/5-10)	Die set with 1 cavity used with 620175 crimp tool frame which produces .160" hex crimp.
620299 (M22520/5-19)	Die set with 2 cavities used with 620175 crimp tool frame which produces .255" and .213" hex crimps.
620300 (M22520/5-21)	Die set with 1 cavity used with 620175 crimp tool frame which produces .475" hex crimp.
620301 (M22520/5-23)	Die set with 1 cavity used with 620175 crimp tool frame which produces .384" hex crimp. Most commonly used to crimp "UHF" coax connectors terminated to RG-8, RG-9, RG-11, RG-149 and RG-213 coaxial cables.
620302 (M22520/5-27)	Die set with 1 cavity used with 620175 crimp tool frame which produces .532" hex crimp.
620304 (M22520/5-33)	Die set with 2 cavities used with 620175 crimp tool frame which produces .343" and .105" hex crimps.
620305 (M22520/5-35)	Die set with 2 cavities used with 620175 crimp tool frame which produces .324" and .128" hex crimp.
620306 (M22520/5-37)	Die set with 2 cavities used with 620175 crimp tool frame which produces .314" and .151" hex crimps.
620307 (M22520/5-39)	Die set with 2 cavities used with 620175 crimp tool frame which produces .309" and .160" hex crimps.
620308 (M22520/5-41)	Die set with 2 cavities used with 620175 crimp tool frame which produces .290" and .178" hex crimps.
620309 (M22520/5-43)	Die set with 2 cavities used with 620175 crimp tool frame which produces .268" and .197" hex crimps.
620310 (M22520/5-45)	Die set with 2 cavities used with 620175 crimp tool frame which produces .231" and .218" hex crimps.
620311 (M22520/5-47)	Die set with 1 cavity used with 620175 crimp tool frame which produces .359" hex crimp.
620312 (M22520/5-49)	Die set with 1 cavity used with 620175 crimp tool frame which produces .401" hex crimp.
620314 (M22520/5-53)	Die set with 1 cavity used with 620175 crimp tool frame which produces .454" hex crimp.
620315 (M22520/5-55)	Die set with 1 cavity used with 620175 crimp tool frame which produces .324" hex crimp.
620316 (M22520/5-61)	Die set with 1 cavity used with 620175 crimp tool frame which produces .429" hex crimp.
620317 (M22520/5-63)	Die set with 2 cavities used with 620175 crimp tool frame which produces .263" and .091" hex crimps.
620365 (M22520/5-09)	Die set with 2 cavities used with 620175 crimp tool frame which produces .178" and .068" hex crimps. Most commonly used to crimp "BNC, TNC, SMA & MINI-UHF" coax connectors terminated to RG-122, RG-161, RG-174, RG-179, RG-180, RG-187, RG-188, RG-195 and RG-316 coaxial cables.
620366 (M22520/5-11)	Die set with 2 cavities used with 620175 crimp tool frame which produces .213" and .068" hex crimps. Most commonly used to crimp "BNC, TNC, MHV, UHF & SMA" coax connectors terminated to RG-55, RG-58, RG-141, RG-142, RG-223, RG-303 and RG-400 coaxial cables.
620367 (M22520/5-13)	Die set with 2 cavities used with 620175 crimp tool frame which produces .255" and .068" hex crimps. Most commonly used to crimp "BNC, TNC, SMA, UHF & MINI-UHF" coax connectors terminated to RG-59, RG-62, RG-140, RG-210 and RG-302 coaxial cables.

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620368 (M22520/5-25)	Die set with 2 cavities used with 620175 crimp tool frame which produces .429" and .100" hex crimps. Most commonly used to crimp "APC-N, APC-7S, N and SC" coax connectors terminated to RG-8, RG-9, RG-11, RG-87A, RG-149, RG-165, RG-213, RG-214, RG-216, RG-225 and RG-393 coaxial cables.
620369 (M22520/5-57)	Die set with 2 cavities used with 620175 crimp tool frame which produces .213" AND .100" hex crimps. Most commonly used to crimp "N and SC" coax connectors terminated to RG-55, RG-58, RG-141, RG-142, RG-223, RG-303 and RG-400 coaxial cables.
620370 (M22520/5-59)	Die set with 2 cavities used with 620175 crimp tool frame which produces .255" and .100" hex crimps. Most commonly used to crimp "N" coax connectors terminated to RG-59, RG-62, RG-71, RG-140, RG-210 and RG-302 coaxial cables.
620371 (M22520/5-29)	Die set with 2 cavities used with 620175 crimp tool frame which produces .324" and .100" hex crimps. Most commonly used to crimp "N" coax connectors terminated to RG-5, RG-6, RG-21, RG-143, RG-212, RG-222 and RG-304 coaxial cables.
620404	Bayonet positioner used with 615717 crimp tool frame on Amphenol (Bendix) machined contact 10-502588-1.
620484	Bayonet positioner used with 615717 crimp tool frame on size 5 inner contacts installed in Tyco (AMP) ARINC "COAXICON" rectangular rack and panel connectors terminated to RG-58C and RG223 coaxial cables. Contact numbers: 225790-1, 225790-2, 225791-1, 225791-2
620499 (M22520/2-34)	Bayonet positioner used with 615717 crimp tool frame on shielded size 12 inner pin and socket contacts terminated to RG-161/U, RG-174A/U, RG-179B/U, RG-180B/U, RG-187A/U, RG-188A/U, RG-195A/U and RG-316/U coaxial cables installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/27-210, M39029/27-402, M39029/27-403, M39029/27-404, M39029/27-405, M39029/27-406, M39029/27-407, M39029/27-408, M39029/28-211, M39029/28-409, M39029/28-410, M39029/28-411, M39029/28-412, M39029/28-413, M39029/28-414, M39029/28-415, M39029/75-416, M39029/75-417, M39029/75-419, M39029/75-420, M39029/75-421, M39029/75-422 and M39029/75-423
620517 (M22520/2-35)	Bayonet positioner used with 615717 crimp tool frame on shielded inner pin and socket contacts terminated to RG-161/U, RG-174A/U, RG-178B/U, RG-179B/U, RG-187A/U, RG-188A/U, RG-196A/U, RG-316/U coaxial cables installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/76-424, M39029/76-425, M39029/76-426, M39029/76-427, M39029/77-428, M39029/77-429, M39029/77-430, M39029/77-431, M39029/78-432, M39029/78-433, M39029/78-434 and M39029/78-435
620528 (M22520/5-15)	Die set with 2 cavities used with 620175 crimp tool frame which produces .263" and .068" hex crimps. Most commonly used to crimp "BNC & TNC" coax connectors terminated to RG-71 coaxial cable.
620537 (M22520/1-17)	Single position head used with 615708 crimp tool frame on size 16 pin and socket contacts installed in MIL-C-85028 rectangular connectors. Contact numbers: M39029/69-384, M39029/69-385, M39029/69-386, M39029/70-387, M39029/70-388 and M39029/70-389
620577	Die set with 2 cavities used with 620175 crimp tool frame which produces .213" and .178" hex crimps.
620617 (M22520/5-100)	Die set used with 620175 crimp tool frame to crimp size 22 thru 10 insulated terminals and splices conforming to MS17143, MS25036, MIL-T-7928, MS25274, and MS27429. The 630045 die set is an improved version (not mil-spec) which provides a tighter crimp on smaller wires.
620618 (M22520/5-101)	Die set used with 620175 crimp tool frame to crimp AWG 26-20 wire to M7928/5-1 and M7928/5-2 insulated butt splices.
620756	Single position head used with 615708 crimp tool frame on size 12 socket contacts (CTS-S12/12, M39029/22-605) installed in MIL-STD-1549 common termination system.
620770	Die set used with 612648 crimp tool frame designed to crimp the contact on Kidde Fire Detection connectors to AWG 18-16 wire. These connectors are commonly found on aircraft built by Boeing and McDonnell-Douglas. Connector numbers: 878238-02, 878239-02, 878395-01, 878454-01, 878550-01, 878551-01, 878581-02, 878582-01, 878583-01 and 878584-01.
620810	Die set with 3 cavities used with 620175 crimp tool frame which produces .231", .197" and .178" hex crimps.
620854	Bayonet positioner used with 616336 crimp tool frame on size 16 and 20 pin and socket contacts installed in MIL-C-28748 rectangular rack and panel connectors. Contact numbers: MS17803-16-16, MS17803-16-20, MS17803-20-20, MS17804-16-16, MS17804-16-20, MS17804-20-20, MS17807-16-16, MS17807-16-20, MS17808-16-16, MS17808-16-20, M39029/34-271, M39029/34-272, M39029/34-273, M39029/35-274, M39029/35-275, M39029/35-276, M39029/36-277, M39029/36-278, M39029/37-279, M39029/37-280
620945	Bayonet positioner used with 616336 crimp tool frame on size 22 pin and socket contacts installed in MIL-C-81659 Series 2 ARINC 404 rear release rectangular rack and panel connectors. Contact numbers: M39029/11-22-22, M39029/12-22-22, M39029/11-144, M39029/12-148
620954	Die set with 1 cavity used with 620175 crimp tool frame which produces .600" hex crimp.
620963	Die set used with 612648 crimp tool frame designed to crimp the backshell portion of Kidde Fire Detection connectors. These connectors are commonly found on aircraft built by Boeing and McDonnell-Douglas. Connector numbers: 878238-02, 878239-02, 878395-01, 878454-01, 878540-01, 878541-01, 878550-01, 878551-01, 878581-02, 878582-01, 878583-01, 878584-01, 878585-01 and 878586-01.
620964	Die set used with 612648 crimp tool frame designed to crimp the contact on Kidde Fire Detection connectors to AWG 20 wire. These connectors are commonly found on aircraft built by Boeing and McDonnell-Douglas. Connector numbers: 878540-01, 878541-01, 878585-01 and 878586-01.
620988	Die set with 3 cavities used with 620175 crimp tool frame which produces .218", .160" and .128" hex crimps.
621205L	621205 controlled cycle crimp tool designed for machined pin and socket contacts installed in Harting Rectangular Power Connector HAN "E" series connectors, 16A and 10A. Two (2) locators are included: 09990000310 for 16A contacts and 09990000311 for 10A contacts. The 621205 crimp tool is equivalent to the Harting 09990000001.

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630000 (M22520/5-103)	Single cavity die set used with 620175 crimp tool frame to crimp size 16 thru 12 environmental splices conforming to MIL-S-81824/1-3 (Raychem MiniSeal Splices).
630045	Die set used with 620175 crimp tool frame to crimp size 22 thru 10 insulated terminals and splices conforming to MS17143, MS25036, MIL-T-7928, MS25274, and MS27429. This is an improved version of the 620617 (M22520/5-100) die set which provides a tighter crimp on smaller wires.
83-005	Economy crimp tool with rotating forged steel crimp nests designed to crimp non-insulated AWG 8, 6, 4 or 2 terminals and splices. Wire sizes are indicated on each crimp nest and impressed onto the crimp barrel of the terminal or splice during the crimp cycle. Not recommended for aviation applications.
91002-1	Insertion tool designed for pin and socket contacts which are crimped to small, fragile wires and when the wire bundle is too large for hand insertion. This tweezer type tool features two grooved insertion tips for grasping the wire connected to the contact.
91011-1	Removal tool designed for Tyco (AMP) pin and socket contacts 66143, 66144, 66168 and 66169 installed in AMP-TAB (Dual Tab) housings.
91017-3	Removal tool designed for Tyco (AMP) pin and socket contacts 66143, 66144, 66168 and 66169 installed in AMP-TAB (Quad Tab) housings.
91039-1	Insertion tool designed for Type XV pin (203840-2) and socket (203841-1) sub size 20 contacts installed in Tyco (AMP) ARINC type rack and panel rectangular connectors.
91066-1	Double-ended insertion & removal tool designed for size 22 contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
91066-3 (M81969/1-03)	Double-ended insertion & removal tool designed for size 16 contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
91066-4	Double-ended insertion-removal tool designed for Tyco (AMP) 204938 and 205116 contacts installed in "RME" Series "ARINC" rectangular connectors.
A-401	Hand tool designed to tension and cut stainless steel bands to a preset level from 60 to 170 pounds. Used for EMP/EMI/RFI shield terminations on connector backshell assemblies.
ACET20-11 (CET20-11)	Removal tool designed for size 20 pin (330-5291-xxx) and socket (331-1007-xxx) contacts installed in ITT-Cannon "D*MA and D*U" Series D-subminiature rear release rectangular connectors.
AD1377 (3137CT)	Controlled cycle ratchet crimp tool designed for Raychem D436-36, 37, & 38 (MIL-S-81824/1, /2, & /3) environmental splices. Direct equivalent to 3137CT shown elsewhere.
AD1386	Calibration gage (Go, No-Go) used on AD-1377, GMT232 and 3137CT crimp tools.
AIC101 (M81969/1-01)	Double-ended insertion & removal tool designed for size 22 contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
AIC102 (M81969/1-02)	Double-ended insertion & removal tool designed for size 20 contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
AIC103 (M81969/1-03)	Double-ended insertion & removal tool designed for size 16 contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
AIC104 (M81969/1-04)	Double-ended insertion & removal tool designed for size 22D contacts installed in MIL-C-24308 D-subminiature and MIL-C-81659 Series 2 "ARINC" rear release connectors.
AIC1401 (M81969/14-01)	Double-ended insertion & removal tool designed for size 22D & 22M contacts installed in MIL-C-24308, MIL-C-38999, MIL-T-81714 and MIL-C-83733 rear release connectors.
AIC1402 (M81969/14-02)	Double-ended insertion & removal tool designed for size 20 contacts installed in MIL-C-26482 Series II, MIL-C-38999, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1403 (M81969/14-03)	Double-ended insertion & removal tool designed for size 16 contacts installed in MIL-C-26482 Series II, MIL-C-38999, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1404 (M81969/14-04)	Double-ended insertion & removal tool designed for size 12 contacts installed in MIL-C-26482 Series II, MIL-C-38999, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1405 (M81969/14-05)	Double-ended insertion & removal tool designed for size 10 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
AIC1406 (M81969/14-06)	Plastic removal tool designed for size 8 contacts installed in MIL-C-26482 Series II, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1407 (M81969/14-07)	Plastic removal tool designed for size 4 contacts installed in MIL-C-26482 Series II, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1408 (M81969/14-08)	Plastic removal tool designed for size 0 contacts installed in MIL-C-26482 Series II, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1409 (M81969/14-09)	Double-ended insertion & removal tool designed for size 22 contacts installed in MIL-C-55302/68 & MIL-C-55302/69 rear release connectors.

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AIC1410 (M81969/14-10)	Double-ended insertion & removal tool designed for size 20 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
AIC1411 (M81969/14-11)	Double-ended insertion & removal tool designed for size 20 contacts installed in MIL-C-26482 Series II, MIL-C-5015 Series 3450, MIL-C-81703 Series III, MIL-C-83723 Series II & III, MIL-C-83733 and MIL-T-81714 rear release connectors.
AIC1412 (M81969/14-12)	Plastic removal tool designed for size 8 contacts installed in MIL-C-38999 rear release connectors.
AIC3901 (M81969/39-01)	Double-ended insertion & removal tool designed for size 20 contacts installed in MIL-C-24308 and commercial D-Subminiature connectors such as RS-232** and DB** Series rear release connectors. (The asterisk indicates additional numbers and/or letters). Replaced MS18728-1 tool.
AK100	Standard C-frame crimp tool which accepts Kings Electronics "KTH-*****" and Astro Tool "AK*****" interchangeable die sets to crimp a wide range of Kings Electronics military and proprietary coaxial and triaxial connectors and contacts. Astro Tool equivalent to Kings KTH-1000 crimp tool. Numerous die sets available. Contact CMS with connector part numbers for die set recommendations.
AMT23002DA (M22520/23-02)	Die assembly used with AMT23B to crimp size 8 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23003DA (M22520/23-03)	Die assembly used with AMT23B to crimp size 6 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23004DA (M22520/23-04)	Die assembly used with AMT23B to crimp size 4 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23005DA (M22520/23-05)	Die assembly used with AMT23B to crimp size 1/0 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23009L (M22520/23-09)	Locator used with AMT23B to crimp size 8 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23010L (M22520/23-10)	Locator used with AMT23B to crimp size 6 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23011L (M22520/23-11)	Locator used with AMT23B to crimp size 4 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23012L (M22520/23-12)	Locator used with AMT23B to crimp size 4 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23013L (M22520/23-13)	Locator used with AMT23B to crimp size 1/0 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
AMT23B (M22520/23-01)	Heavy duty pneumatic crimp tool designed to crimp machined pin and socket contacts and insulated and non-insulated terminals size 8-4/0. Requires a die assembly and locator determined by the application. Contact CMS with connector, contact or terminal part numbers for die set and locator recommendations.
AT1000-12	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C- 26482 Series 1, MIL-C-26500, MIL-C-26636 and MIL-C-81703 connectors. Has a replaceable off-set tip design.
AT1000-16	Insertion tool designed for size 16 pin and socket contacts installed in MIL-C- 26482 Series 1, MIL-C-26500, MIL-C-26636 and MIL-C-81703 connectors. Has a replaceable off-set tip design.
AT1000-20	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C- 26482 Series 1, MIL-C-26500, MIL-C-26636 and MIL-C-81703 connectors. Has a replaceable off-set tip design.
AT1012	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATA1144 (MS24256A12) but has a replaceable tip.
AT1016	Insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATA1101 (MS24256A16) but has a replaceable tip.
AT1020	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATA1086101 (MS24256A20) but has a replaceable tip.
AT2012 (MS24256R12)	Removal tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
AT2016 (MS24256R16)	Removal tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
AT2020 (MS24256R20)	Removal tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
AT4000	Insertion tool designed for size 22 pin and socket contacts installed in Airborn "TW" series and Delphi (Hughes) "W" series rear release rectangular connectors. Equivalent to Delphi (Hughes) TM-016-IT-003.

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AT4004	Insertion tool designed for size 16 pin and socket contacts installed in Airborn "TW" series and Delphi (Hughes) "MRA, MRE & MRS" series rear release rectangular connectors. Equivalent to Delphi (Hughes) TM-016-IT-003.
AT508K	Padded jaw plier used for tightening accessory attachments to connectors.
ATA1086 (MS24256A20)	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATA1101 (MS24256A16)	Insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATA1144 (MS24256A12)	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATA2079	Removal tool designed for size 20 pin (213-36001-00 and socket (213-36000-00) contacts installed in Amphenol "213" Series front release connectors. Equivalent to Amphenol 294-280.
ATA3069	Insertion and removal kit tool designed for size 16 pin and socket "Poke-Home" contacts installed in Amphenol "69" Series circular connectors. Contact numbers: 69-1105-03, 69-1110-03, 69-1120-03, 69-1125-03. Equivalent to Amphenol 294-39.
ATA3095	Insertion and removal kit tool designed for size 12 pin (69-1115-03) and socket (69-1100-03) "Poke-Home" contacts installed in Amphenol "69" Series circular connectors. Equivalent to Amphenol 294-40.
ATB1067	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-26482, MIL-C-26500 and MIL-C-26636 connectors. Modified equivalent to Souriau (Burndy) RTM20-5.
ATB3062-2 (J-1276-3)	Double-ended insertion & removal tool designed for Souriau (Burndy) HYPIN YHMM16-1, YHMM16-3, YHMM16-4, YHMM16-5, YHMM18-2, YHMM20-1, YHMM20-2, YHMM22-1, YHMM22-2 and YHMM24-1 contacts installed in YHLZ, SYHLZ & SYH modular terminal blocks which are commonly found on commercial airliners. Equivalent to Souriau (Burndy) J1276-3.
ATB3062-4	Double-ended insertion & removal tool designed for Souriau (Burndy) HYPIN YHMM16-1, YHMM16-3, YHMM16-4, YHMM16-5, YHMM18-2, YHMM20-1, YHMM20-2, YHMM22-1, YHMM22-2 AND YHMM24-1 contacts installed in YHLZ, SYHLZ & SYH modular terminal blocks which are commonly found on commercial airliners. This is a longer handle version of part numbers ATB3062-1 and J1276-4.
ATBX1048 (MS27495A22D/M)	Insertion tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX1058 (MS27495A22)	Insertion tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX1072 (MS27495A20)	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX1108 (MS27495A16)	Insertion tweezer designed for size 16 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX1157 (MS27495A12)	Insertion tweezer designed for size 12 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX1231	Insertion tool designed for size 8 pin and socket coaxial contacts installed in Amphenol (Bendix) "PT-CE and PT-SE, SP-SE, MS/PT-SE and PC-SE" Series miniature circular connectors. Equivalent to Amphenol (Bendix) 11-8660-4.
ATBX1-6781	Insertion plier designed for size 16 pin (10-189004-16F) and socket (10-189006-16F) contacts installed in Amphenol (Bendix) "PT-CE" Series miniature circular connectors. Equivalent to Amphenol (Bendix) 11-6781.
ATBX1-6782	Insertion plier designed for size 20 pin (10-189000-20F, 10-195962-20F) and socket (10-597817-351, 10-195963-20F) contacts installed in Amphenol (Bendix) "PT-CE" Series miniature circular connectors. Equivalent to Amphenol (Bendix) 11-6782.
ATBX1-7082	Insertion plier designed for size 12 pin (10-40561) and socket (10-40560 or 10-597109-131) contacts installed in Amphenol (Bendix) "10-244XXX and AN/MS" Series circular connectors. Equivalent to Amphenol (Bendix) 11-7082.
ATBX1-7345	Insertion plier designed for size 16 pin (10-40557) and socket (10-40556 or 10-597109-171) contacts installed in Amphenol (Bendix) "10-244XXX and AN/MS" Series circular connectors. Equivalent to Amphenol (Bendix) 11-7345.
ATBX1-8220	Insertion plier designed for size 8 pin (10-40792) and socket (10-40793) contacts installed in Amphenol (Bendix) "AN/MS" Series connectors. Equivalent to Amphenol (Bendix) 11-8220.
ATBX2046 (MS27495R22D/M)	Removal tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX2057 (MS2749522)	Removal tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX2070 (MS27495R20)	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.

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ATBX2103 (MS27495R16)	Removal tweezer designed for size 16 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX2155 (MS27495R12)	Removal tweezer designed for size 12 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATBX2291	Removal tool designed for size 8 pin and socket coaxial contacts installed in Amphenol (Bendix) "PT-SE, SP-SE, MS/PT-SE and PC-SE" Series miniature front release connectors. Equivalent to Amphenol (Bendix) 11-7880-8.
ATBX2-3695	Removal kit designed for size 12 and 16 contacts installed in Amphenol (Bendix) "AN/MS" Series front release connectors. Tips are stored in the hollow handle. Contact numbers: 10-40522, 10-40553, 10-40556, 10-40557, 10-40560, 10-40561. Equivalent to Amphenol (Bendix) 11-3695.
ATBX2-6900	Removal kit designed for size 16 pin (10-195962-20F, 10-189004-16F) and socket (10-195963-20F, 10-189006-16F) and size 20 pin (10-189000-20F) and socket (10-597817-351) contacts installed in Amphenol (Bendix) "PT()CE" Series front release connectors. Tips are stored in the hollow handle. Equivalent to Amphenol (Bendix) 11-6900.
ATBX2-8250	Removal kit designed for size 16 pin (10-40553, 10-40557) and socket (10-40552, 10-597109-161, 10-40556, 10-597109-171), size 12 pin (10-40561) and socket (10-40560, 10-597109-131), size 8 pin (10-40792) and socket (10-40793) contacts installed in Amphenol (Bendix) "10-244XXX and AN/MS" Series front release circular connectors. Tips are stored in the hollow handle. Equivalent to Amphenol (Bendix) 11-8250.
ATC1054	Insertion tool designed for size 22 pin (030-2259-000) and socket (031-1287-000) contacts installed in ITT-Cannon "DPX" Series rectangular rack and panel ARINC 404 connectors. Equivalent to ITT-Cannon CIT-DPXMA-22 tool.
ATC1072	Insertion tool designed for size 20 pin (030-2040-000) and socket (031-1046-002) contacts installed in ITT-Cannon "DPXME" Series rectangular rack and panel ARINC connectors. Equivalent to ITT-Cannon CIT-20D.
ATC1073	Insertion tool designed for size 20 pin (030-2040-000) and socket (031-1046-002) contacts installed in ITT-Cannon "DPXME" Series rectangular rack and panel ARINC connectors. Equivalent to ITT-Cannon CIT-20D. Small handle version of ATC1072.
ATC1076	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-24308, MIL-C-81659 and ARINC 404 & ARINC 600 rear release rectangular connectors.
ATC1076L	Longer tip version of ATC1076. Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-24308, MIL-C-81659 and ARINC 404 & ARINC 600 rear release rectangular connectors.
ATC1081	Insertion tool designed for size 20 pin and socket contacts, without insulation support, installed in ITT-Cannon "KPT" Series circular front release connectors. Equivalent to ITT-Cannon CIT-20-18.
ATC1377	Insertion tool designed for size 4 pin and socket contacts installed in ITT-Cannon "CB & CT" Series connectors. Equivalent to ITT-Cannon CIT-4.
ATC2035	Removal tool designed for size 22 socket (031-9540-000) contact installed in ITT-Cannon "CTA Centi-Loc" strip connectors. Equivalent to ITT-Cannon CET-P-CTA-2.
ATC2036	Removal tool designed for size 22 pin (030-9542-001) contact installed in ITT-Cannon "CTA Centi-Loc" strip connectors. Equivalent to ITT-Cannon CET-S-CTA-1.
ATC2046	Impact type removal tool designed for size 20 contacts installed in ITT-Cannon "D*SM Golden-D Mark II" Series subminiature connectors. Contact numbers: 031-0931-006, 031-0932-004. Equivalent to ITT-Cannon CET-20-5A.
ATC2046L	Impact type removal tool designed for size 20 contacts installed in ITT-Cannon "D*SM Golden-D Mark II" Series subminiature connectors. Contact numbers: 031-0931-006, 031-0932-004. Longer tip version of ATC2046 tool.
ATC2053	Removal tweezer designed for size 22 pin (030-9175-000) and socket (031-1113-000) contacts installed in MIL-C-83733, including ITT-Cannon "DPK" Series, rear release rectangular connectors. Equivalent to ITT-Cannon CET-DPKB-22 and CET-DPXMA-22.
ATC2071	Removal tweezer designed for size 20 contacts installed in ITT-Cannon "D*C and D*U" Series, rear release D-subminiature connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000. Equivalent to ITT-Cannon CET-20-D.
ATC2073	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-81659, including ITT-Cannon "DPXNA and DPXNE" Series, rear release rectangular rack and panel connectors. Contact numbers: 030-1892-002, 030-1981-000, 030-2040-000, 031-1046-002, 031-1047-002, 031-9134-001. Equivalent to ITT-Cannon CET-20D-1.
ATC2074	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-81659, including ITT-Cannon "DPXNA and DPXNE" Series, rear release rectangular rack and panel connectors. Contact numbers: 030-1892-002, 030-1981-000, 030-2040-000, 031-1046-002, 031-1047-002, 031-9134-001. Straight tip version of ATC2073.
ATC2076	Removal tweezer designed for size 20 contacts installed in ITT-Cannon "D*C and D*U" Series, rear release D-subminiature connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000. Longer tip version of ATC2071.
ATC2076L	Removal tweezer designed for size 20 contacts installed in ITT-Cannon "D*C and D*U" Series, rear release D-subminiature connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000. Longer tip version of ATC2076.
ATC2105	Removal tool designed for size 12 pin (030-9048-000) and socket (031-9043-000) contacts installed in ITT-Cannon "CA" Series front release circular connectors. Equivalent to ITT-Cannon CET-12-1A.
ATC2150	Removal tool designed for size 8 pin (030-9049-000) and socket (031-9044-000) contacts installed in ITT-Cannon "CA" Series front release circular connectors. Equivalent to ITT-Cannon CET-8.

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ATC2170	Impact type removal tool designed for coaxial pin (249-1178-001, 249-1176-001, 249-1174-001, 249-1172-001) and socket (249-1177-001, 249-1175-001, 249-1173-001, 249-1171-001) contacts installed in ITT-Cannon "DPGM, DPJM & DPJMB" Series connectors. Equivalent to ITT-Cannon CET-C1.
ATC2184	Removal tweezer designed for size 12 pin and socket contacts installed in ITT-Cannon "MS/CV345*" Series rear release circular connectors. Equivalent to ITT-Cannon CET-VE-12.
ATC2188 (370-8040-030)	Removal tool designed for coax contacts installed in ITT-Cannon "Combo-D" D-subminiature front release rectangular connectors. Equivalent to ITT-Cannon CET-C6B.
ATC2200	Impact type removal tool designed for coaxial contacts installed in ITT-Cannon "DPXMS" Series rectangular rack and panel connectors. Contact numbers: 249-1329-000, 249-1330-000, 249-1331-000, 249-1337-000, 249-1338-000, 249-1339-000, 249-1340-000, 249-1341-000. Equivalent to ITT-Cannon CET-C4.
ATC2276	Removal tool designed for coaxial pin (249-1741-000) and socket (249-9008-000) contacts installed in ITT-Cannon "DPAMA" Series rear release, rectangular, rack and panel connectors. Equivalent to ITT-Cannon CET-C11.
ATC2281	Removal plier designed for size 8 pin (030-3198-003) and socket (031-3116-003) contacts installed in MIL-C-5015 Series 3450 rear release circular connectors. Equivalent to ITT-Cannon CET-8-2 and CET-CVR-8.
ATCL2061	Removal tool designed for size 22 pin (2500-P2A22) and socket (2500-S2A22) contacts installed in Continental Connector "25" Series front release connectors. Equivalent to Continental 2259.
ATD1081	Insertion tool designed for size 20 pin (800-20/32-1) and socket (800-20/30-1, 4762-203-2000) contacts installed in Deutsch "DS" Series miniature circular front release connectors.
ATD2047	Removal tweezer designed for size 22 pin and socket contacts installed in Deutsch "RSM" and "RTK" Series rear release circular connectors. Contact numbers: 2803-4-0000, 2803-10-0000, 2841-5-9000, 2841-13-9000
ATD2058	Unwired or broken wire removal tool designed size 20 contacts installed in MIL-C-81511, Series 3 & 4 rear release circular connectors. Equivalent to Deutsch 81517-20.
ATD2062	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-81511, Series 3 & 4 rear release circular connectors.
ATD2090	Unwired or broken wire removal tool designed size 16 contacts installed in MIL-C-81511, Series 3 & 4 rear release circular connectors. Equivalent to Deutsch 81517-16.
ATD2095	Removal tool designed for size 20 pin (800-20/32-1) and socket (800-20/30-1, 4762-203-2000) contacts installed in Deutsch "DS" Series miniature circular front release connectors. Functional equivalent to Deutsch M15515-20.
ATD2097	Removal tool designed for size 20 pin (800-20/32-1) and socket (800-20/30-1, 4762-203-2000) contacts installed in Deutsch "DS" Series miniature circular front release connectors. Equivalent to Deutsch M15515-20.
ATD2128	Removal tool designed for size 16 pin (800-16/32-1) and socket (200-16/30-3) contacts installed in Deutsch "DS" Series front release connectors. Functional equivalent to Deutsch M15515-16.
ATD2190	Removal tool designed for size 12 pin (800-12/32-1) and socket (200-12/30-3) contacts installed in Deutsch "DS" Series miniature front release connectors. Functional equivalent to Deutsch M15515-12.
ATD2191	Removal tool designed for size 12 pin (800-12/32-1) and socket (200-12/30-3) contacts installed in Deutsch "DS" Series miniature front release connectors. Equivalent to Deutsch M15515-12.
ATF1105 (MS90455-16)	Insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATF1101 but has a replaceable angled tip.
ATF1144 (MS90455-12)	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 712-1229-000 and ITT-Cannon CET-FRF-12.
ATF1160	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATF1144 but has a replaceable angled tip.
ATF1256	Insertion tool designed for size 8 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Performs the same function as the ATF1260 but has a replaceable angled tip.
ATF1260 (MS90455-8)	Insertion tool designed for size 8 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 708-1258-000 and ITT-Cannon CET-FRF-8.
ATF1378 (MS90455-4)	Insertion tool designed for size 4 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 704-1260-000 and ITT-Cannon CET-FRF-4.
ATF1558 (MS90455-0)	Insertion tool designed for size 0 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 700-1262-000 and ITT-Cannon CET-FRF-0.
ATF2115 (MS90456-16)	Removal tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 716-1168-000 and ITT-Cannon CET-FRF-16.
ATF2162 (MS90456-12)	Removal tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 712-1172-000 and ITT-Cannon CET-FRF-12.

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ATF2252 (MS90456-8)	Removal tool designed for size 8 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 708-1138-000 and ITT-Cannon CET-FRF-8.
ATF2336 (MS90456-4)	Removal tool designed for size 4 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 704-1134-000 and ITT-Cannon CET-FRF-4.
ATF2518 (MS90456-0)	Removal tool designed for size 0 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Equivalent to Flight Connector 700-1130-000 and ITT-Cannon CET-FRF-0.
ATH1050	Insertion tweezer designed for size 22D pin and socket contacts installed in Delphi (Hughes) "W" Series rear release rectangular connectors. Equivalent to Delphi (Hughes) TR22DIT.
ATH1094	Insertion tool designed for size 16 and 20 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 rectangular rack and panel type connectors. Contact numbers: MS17803-16-16, MS17803-16-20, MS17803-20-20, MS17804-16-16, MS17804-16-20, MS17804-20-20, MS17807-16-16, MS17807-16-20, MS17808-16-16, MS17808-16-20, M39029/34-271, M39029/34-272, M39029/34-273, M39029/35-274, M39029/35-275, M39029/35-276, M39029/36-277, M39029/36-278, M39029/37-279, M39029/37-280
ATH2050	Removal tweezer designed for size 22D pin (RP22D22) and socket (RS22D22) contacts installed in Delphi (Hughes) "W" Series rear release rectangular connectors. Equivalent to Delphi (Hughes) TR22DRT.
ATH2052	Removal tool designed for size 22 pin and socket contacts installed in Delphi (Hughes) "W" Series front release rectangular connectors. Contact numbers: WP22Y22C000, WP22Y22C010, WP22Y28C000, WP22Y28C010, WS22Y22C000, WS22Y22C010, WS22Y28C000, WS22Y28C010. Equivalent to Delphi (Hughes) TW022RT006.
ATH2102	Impact type removal tool designed for size 16 and 20 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 front release rectangular rack and panel connectors. Contact numbers: MS17803-16-16, MS17803-16-20, MS17803-20-20, MS17804-16-16, MS17804-16-20, MS17804-20-20, MS17807-16-16, MS17807-16-20, MS17808-16-16, MS17808-16-20, M39029/34-271, M39029/34-272, M39029/34-273, M39029/35-274, M39029/35-275, M39029/35-276, M39029/36-277, M39029/36-278, M39029/37-279, M39029/37-280.
ATH2103	Removal tool designed for size 16 pin and socket contacts installed in Delphi (Hughes) "M" Series front release rectangular connectors. Equivalent to Delphi (Hughes) TM016RT006.
ATH2202	Removal tool designed for size 8 coaxial contacts installed in Souriau (Burndy) connectors. Equivalent to Souriau (Burndy) RX8-1 tool.
ATK1130	Insertion tool kit designed for size 20, 16 & 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Case contains one (1) handle and three (3) interchangeable tips.
ATK2120	Removal tool kit designed for size 20, 16 & 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors. Case contains one (1) handle and three (3) interchangeable tips.
ATM2052	Removal tool designed for size 22 pin and socket contacts installed in Matrix Science "MiniMate" Series front release connectors. Equivalent to Matrix Science 90-0002-022 tool.
ATML0801B (M81969/8-01)	Insertion tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATML0802B (M81969/8-02)	Removal tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
ATML0803B (M81969/8-03)	Insertion tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATML0804B (M81969/8-04)	Removal tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
ATML0805B (M81969/8-05)	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATML0806B (M81969/8-06)	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
ATML0807B (M81969/8-07)	Insertion tweezer designed for size 16 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATML0808B (M81969/8-08)	Removal tweezer designed for size 16 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
ATML0809B (M81969/8-09)	Insertion tweezer designed for size 12 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
ATML0810B (M81969/8-10)	Removal tweezer designed for size 12 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.

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ATML0811B (M81969/08B-11)	Insertion tweezer designed for size 10 pin and socket contacts installed in MIL-C-38999 rear release connectors.
ATML0812B (M81969/08B-12)	Removal tweezer designed for size 10 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
ATML08205B (M81969/8-205)	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-83723 Series III rear release circular connectors.
ATML08206B (M81969/8-206)	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-83723 Series III rear release circular connectors.
ATML08207B (M81969/8-207)	Insertion tweezer designed for size 16 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATML08208B (M81969/8-208)	Removal tweezer designed for size 16 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATML08209B (M81969/8-209)	Insertion tweezer designed for size 12 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATML08210B (M81969/8-210)	Removal tweezer designed for size 12 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATML1201 (M81969/12-01)	Insertion and removal tweezer designed for size 22 contacts installed in MIL-C-65302/65 and MIL-C-55302/66, including Airborn "WTK" Series printed circuit wiring connectors. Straight tip version.
ATML1202 (M81969/12-02)	Insertion and removal tweezer designed for size 22 contacts installed in MIL-C-65302/65 and MIL-C-55302/66, including Airborn "WTK" Series printed circuit wiring connectors. Angled tip version.
ATML1703B (M81969/17-03)	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1704B (M81969/17-04)	Insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1705B (M81969/17-05)	Insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1706B (M81969/17-06)	Insertion tool designed for size 8 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1707B (M81969/17-07)	Insertion tool designed for size 4 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1708B (M81969/17-08)	Insertion tool designed for size 0 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.
ATML1709B (M81969/17B-09)	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-26482 Series 1, MIL-C-26500, MIL-C-81703 Series 2; MIL-C-5015 "MS3400" Series, MIL-C-38300, MIL-C-81582, MIL-C-26518, MIL-C-28748/9 and MIL-C-28748/10 front release connectors. Replaced MS24256B20 tool.
ATML1801 (M81969/18-01)	Insertion tool designed for size 16 and 20 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 rectangular rack and panel type connectors. Contact numbers: MS17803-16-16, MS17803-16-20, MS17803-20-20, MS17804-16-16, MS17804-16-20, MS17804-20-20, MS17807-16-16, MS17807-16-20, MS17808-16-16, MS17808-16-20, M39029/34-271, M39029/34-272, M39029/34-273, M39029/35-274, M39029/35-275, M39029/35-276, M39029/36-277, M39029/36-278, M39029/37-279, M39029/37-280. Replaced MS17805.
ATML1802 (M81969/18-02)	Insertion tool designed for size 22 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 rectangular rack and panel type connectors. Contact numbers: M39029/34-22-22, M39029/34-440, M39029/35-22-22, M39029/35-441
ATML1901B (M81969/19-01)	Removal tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
ATML1902B (M81969/19-02)	Removal tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
ATML1903B (M81969/19-03)	Removal tool designed for size 8 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
ATML1904B (M81969/19-04)	Removal tool designed for size 4 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
ATML1905B (M81969/19-04)	Removal tool designed for size 0 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.

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ATML1906B (M81969/19-06)	Removal tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors.
ATML1910B (M81969/19B-10)	Removal tool designed for size 20 pin and socket contacts installed in MIL-C-38300 front release circular connectors. Replaced MS24256RH20.
ATML1911B (M81969/19B-11)	Removal tool designed for size 16 pin and socket contacts installed in MIL-C-38300 front release circular connectors. Replaced MS24256RH16.
ATML2001 (M81969/20-01)	Impact type removal tool designed for size 16 and 20 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 front release rectangular rack and panel connectors. Contact numbers: MS17803-16-16, MS17803-16-20, MS17803-20-20, MS17804-16-16, MS17804-16-20, MS17804-20-20, MS17807-16-16, MS17807-16-20, MS17808-16-16, MS17808-16-20, M39029/34-271, M39029/34-272, M39029/34-273, M39029/35-274, M39029/35-275, M39029/35-276, M39029/36-277, M39029/36-278, M39029/37-279, M39029/37-280. Replaced MS17806 tool.
ATML2002 (M81969/20-02)	Impact type removal tool designed for size 22 pin and socket contacts installed in MIL-C-28748 rectangular rack and panel connectors. Contact numbers: M39029/34-22-22, M39029/34-440, M39029/35-22-22, M39029/35-441
ATML2801 (M81969/28-01)	Removal tool designed for size 5 & 9 coaxial contacts installed in MIL-C-81659 Series 2 "ARINC" rear release rectangular rack and panel connectors. Replaced MS3178-001 removal tool.
ATML3301 (M81969/33-01)	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-28840 connectors. The same tool, with an angled tip is also available as part number ATML3302.
ATML3401 (M81969/34-01)	Removal tool designed for size 20 pin and socket contacts installed in MIL-C-28840 front release circular connectors. Contact numbers: M39029/83-508, M39029/83-450, M39029/83-451, M39029/84-509, M39029/84-452, M39029/84-453
ATMO2081	Removal tool designed for Molex terminals 1560/1561, 1797, 1854/1855, 1854/1855, 2189/2190, 4529, 4559, 6770/6772 and 7291. Equivalent to Molex 11-03-0002 (HT-2285).
ATMO2124	Removal tool designed for Molex terminals 1190/1189, 1380/1381, 1380/1381, 1434/1433, 1434/1433, 1450/1451, 2192, 2269, 2273, 2870/2871, 4272, 4549/4550, 6271, 6308, 6310, 6893/6894, 7238/7239, 41483, 42138 and 42478/42477. Equivalent to Molex 11-03-0006 (HT-2038).
ATMS2062	Removal tool designed for 22 (800-CT20) socket contacts installed in Eaton (Master Specialties) 800 & 820 Series lighted indicators. Equivalent to Eaton (Master Specialties) 800-P2 and 800-P7 removal tools.
ATR1078	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-83723 Series rear release circular connectors. Angled tip version of ATR1079.
ATR1079	Insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-83723 Series rear release circular connectors. Straight tip version of ATR1078.
ATR1080	Insertion tool designed for size 20 pin and socket contacts installed in MIL-C-83723 Series rear release circular connectors.
ATR1106	Insertion tweezer designed for size 16 pin and socket contacts installed in MIL-C-83723 Series rear release circular connectors.
ATR2080	Removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-83723 Series III rear release circular connectors.
ATR2112	Removal tweezer designed for size 16 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATR2160	Removal tweezer designed for size 12 pin and socket contacts installed in MIL-C-5015 Series 3450 and MIL-C-83723 Series III rear release circular connectors.
ATSE2070	Removal tool designed for size 20 pin and socket contacts installed in MIL-C-28840 front release connectors. Contact numbers: M39029/83-508, M39029/83-450, M39029/83-451, M39029/84-509, M39029/84-452, M39029/84-453
ATW2025	Removal tool designed for Winchester Electronics flat contact 8617. Equivalent to Winchester Electronics 107R-1007 removal tool.
ATW2104	Removal tool designed for size 16 pin and socket contacts installed in Winchester Electronics "MRAC" Series front release rectangular connectors. Equivalent to Winchester Electronics 107R-1001 removal tool.
CET10-1	Plastic tool designed for size 10 socket (031-1148-000) installed in ITT-Cannon "DPXME" Series rear release, rectangular, rack and panel connectors.
CET16-9	Plastic removal tool designed for size 16 pin (030-9083-001) and socket (031-9084-001) contacts installed in ITT-Cannon "DPDMA, DPDMB, DPXMA & DPXMB" Series rear release rectangular rack and panel connectors. Equivalent to MS3165-16 tool.
CET20-14	Plastic removal tool designed for size 20 pin (030-9081-001) and socket (031-9082-001) contacts installed in ITT-Cannon "DPJMB" Series rear release rectangular rack and panel connectors.
CET20-8	Plastic removal tool designed for size 20 pin (030-1951-000 & 030-9081-000) and socket (031-1099-000 & 031-9134-000) contacts installed in ITT-Cannon "DPDMA, DPDMB, DPXMA & DPXMB" Series rear release rectangular rack and panel connectors.
CET8-2	Plastic removal tool designed for size 8 pin (030-1908-001, 030-9083-000 & 030-9202-001) and socket (031-1154-000, 031-9084-000 & 031-9201-001) contacts installed in ITT-Cannon "DPDMA, DPDMB, DPSRC, DPXMA, DPXMB & DPXME" Series rear release rectangular rack and panel connectors. Equivalent to MS3165-8 and M83723/32-8 tools.
CET-C8	Plastic removal tool designed for coaxial contacts installed in ITT-Cannon "BKAD, BKAE, BKAFF, DPXMA, MIL-C-81659 and MIL-C-83733" Series rear release rectangular rack and panel connectors. ITT-Cannon contact part numbers include: 249-1471-000, 249-1474-000, 249-1631-000, 249-1632-000, 249-1633-000, 249-1634-000, 249-1670-000, 249-1671-000, 249-1882-000, 249-1883-000, 249-1958-000, 249-1959-000, 249-1960-000, 249-1961-000, 249-1982-000, 249-1983-000, 249-2017-000, 249-2018-001, 249-2019-001, 249-2020-001, 249-2061-000, 249-2062-001, 249-5500-010, 249-5500-011, 249-5500-012, 249-5500-013, 349-0013-000, 349-0014-000, 349-0015-000, 349-0016-000, 349-1003-000, 349-1004-000, 349-1059-000 & 349-1060-100

Tooling may be purchased from **Connector Microtooling Systems, Inc.**
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CIET20HDL	Double-ended insertion & removal tool designed for size 20 high density pin (030-1892-000) and socket (031-1047-000) contacts installed in ITT-Cannon "DPXMK" Series rear release, rectangular, rack and panel connectors.
CIET22	Double-ended insertion & removal tool designed for size 22 pin (030-1975-000) and socket (031-1113-000) contacts installed in ITT-Cannon "DPX" Series rear release, rectangular, rack and panel connectors. Equivalent to MS27534-22 tool.
CMS-02	General purpose electrical connector tooling system designed for commercial airline operators. Basic hand tools to service size 12 through 22 machined contacts used in the most common front and rear release connectors. Includes a detailed manual for proper tool selection and tool use. A very compact size of 14" x 18" - about the size of a business brief case. Best used at small "turn stations". Aircraft specific tooling systems also available - contact CMS for detailed information.
CMS-20	General purpose electrical connector tooling system designed for general aviation (rotary and fixed wing aircraft). Tooling is included to service size 16 and smaller machined contacts used in the most common connectors, terminal junctions and insulated terminals installed on general aviation aircraft. Includes a detailed manual for proper tool selection and tool use. A very compact size of 14" x 18" - about the size of a business brief case. For detailed information go to: http://www.cms-tools.com/cms20/cms-20.shtml
CNA040301 (M6106/31-001)	Removal tool designed for Precision Connector Design (Amphenol PCD) M12883/52-001, M12883/52-002, M12883/52-003 track mounted relays.
CNA081501 (M6106/32-001)	Removal tool designed for Precision Connector Design (Amphenol PCD) M12883/52-001, M12883/52-002, M12883/52-003 track mounted relay sockets.
CT-905D	Controlled cycle ratchet crimp tool which produces both conductor and insulation crimps simultaneously on Souriau (Burndy) YHMM22, YHMM20, YHMM18, YHMM16 and YHMM12 contacts. Equivalent to Souriau (Burndy) M10S-1 crimp tool with S-1 die assembly and SL-53 stop bushing attached.
CTA-0161	Insertion tool designed for use with Raychem "MTC" Series Modular Rectangular connector inserts. Can also be used to remove the inserts.
CTA-1160	Double-ended insertion & removal tool designed for size 22-20 pin (CTA-0093 & CTA-0166) and socket (CTA-0094 & CTA-0165) contacts installed in Raychem "MTCP" Series Modular Rectangular connectors.
CTJ-R06 (M81714/69-01)	Single module removal tool designed for MIL-T-81714 Terminal Junction Modules, Grounding Modules, Power Distribution and Feedback Modules.
CTJ-R12 (M81714/69-02)	Double module removal tool designed for MIL-T-81714 Terminal Junction Modules, Grounding Modules, Power Distribution and Feedback Modules.
DA3	Precision binocular, adjustable headband, magnifier which permits unrestricted user efficiency while reducing eye strain - leaves both hands free and allows three dimensional vision. Can be worn over prescription or safety eyeglasses. Magnifies 1-3/4 times at 14 inches - other lenses available for up to 3-1/2 times at 4 inches.
DAK188 (359-0697-050)	Insertion tweezer designed for Rockwell Collins contacts 372-25140-110, 372-2514-010, 372-2514-180 and 372-2514-080. Same as Rockwell Collins tool numbers 359-0697-050 and 359-8029-010.
DEU1601 (M81969/16-01)	Double-ended insertion & removal tool used to insert and remove size 20 contacts from rear release connectors specified in MIL-C-81511 Series III & IV. Equivalent to Deutsch 81515-20.
DEU1602 (M81969/16-02)	Double-ended insertion & removal tool used to insert and remove size 16 contacts from rear release connectors specified in MIL-C-81511 Series III & IV. Equivalent to Deutsch 81515-16.
DEU1603 (M81969/16-03)	Double-ended insertion & removal tool used to insert and remove size 12 contacts from rear release connectors specified in MIL-C-81511 Series III & IV. Equivalent to Deutsch 81515-12.
DEU1604 (M81969/16-04)	Double-ended insertion & removal tool used to insert and remove size 22 contacts from rear release connectors specified in MIL-C-81511 Series III & IV. Equivalent to Deutsch 81515-23.
DHK160 (CIET-CTA-2)	Insertion & removal tool kit designed for size 22 to 30 pin and socket contacts installed in ITT-Cannon "CTA" Centi-Loc Strip Connectors. Tips are contained in the handle - 3 for insertion and 2 for removal. Equivalent to ITT-Cannon CIET-CTA-2.
DMC737	A general purpose electrical connector maintenance kit designed for the general aviation market. Tooling is included to service size 16 and smaller machined contacts used in the most common connectors installed on general aviation aircraft. Includes a detailed manual for proper tool selection and tool use.
DRK188	Removal tool designed for Rockwell Collins contacts 372-2514-110 and 372-2514-010. Same as Rockwell Collins tool number 359-0697-060.
DRK230	Removal tool designed for Rockwell Collins contacts 372-2514-180 and 372-2514-080. Same as Rockwell Collins tool number 359-0697-020.
Fluke 177 with certificate	Fluke 177 Multimeter with Calibration Certificate. For detailed information go to: http://www.fluke.com/
Fluke 177 w/o certificate	Fluke 177 Multimeter without Calibration Certificate. For detailed information go to: http://www.fluke.com/
Fluke 179 w/o certificate	Fluke 179 Multimeter without Calibration Certificate. For detailed information go to: http://www.fluke.com/

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Fluke 179 with certificate	Fluke 179 Multimeter with Calibration Certificate. For detailed information go to: http://www.fluke.com/
Fluke 87V w/o certificate	Fluke 87V Multimeter without Calibration Certificate. For detailed information go to: http://www.fluke.com/
Fluke 87V with certificate	Fluke 87V Multimeter with Calibration Certificate. For detailed information go to: http://www.fluke.com/
G2P330 (M22520/31-02)	Single position head for use with GS200-1 (M22520/31-01) crimp tool frame on shielded size 12 pin and socket contacts installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/27-210, M39029/27-402, M39029/27-403, M39029/27-404, M39029/27-405, M39029/27-406, M39029/27-407, M39029/27-408, M39029/28-211, M39029/28-409, M39029/28-410, M39029/28-411, M39029/28-412, M39029/28-413, M39029/28-414, M39029/28-415, M39029/75-416, M39029/75-417, M39029/75-419, M39029/75-420, M39029/75-421, M39029/75-422 and M39029/75-423
GMT221	Controlled cycle ratchet crimp tool designed to crimp Collins contacts 372-2514-110, 372-2514-010, 372-2514-180 and 372-2514-080. Same as Collins tool number 359-0697-010.
GMT232	Controlled cycle ratchet crimp tool designed to be used on Raychem D436-36, 37 & 38 (MIL-S-81824/1-1, /1-2 & /1-3) environmental splices.
GP295 (M22520/4-02)	Single position head for use with GS100-1 (M22520/4-02) crimp tool on shielded size 16 pin and socket contacts terminated to RG/U-174B, RG/U-178B, RG/U-188A, RG/U-196A, RG/U-316 coaxial cables installed in MIL-C-38999 rear release circular connectors. Contact numbers: M39029/76-424, M39029/76-425, M39029/76-426, M39029/76-427, M39029/77-428, M39029/77-429, M39029/77-430, M39029/77-431, M39029/78-432, M39029/78-433, M39029/78-434 and M39029/78-435
GS100-1 (M22520/4-01)	Controlled cycle ratchet crimp tool which produces a circular crimp. Used with GP295 (M22520/4-02) single position head to crimp the outer ferrules of M24308/14 and /15 shielded pin and socket contacts to RG/U-174B, RG/U-178B, RG/U-188A, RG/U-196A and RG/U-316 coaxial cables.
GS200-1 (M22520/31-01)	Controlled cycle ratchet crimp tool which produces a circular crimp. Used with G2P330 (M22520/31-02) single position head to crimp M39029/27, M39029/28 and M39029/75 outer pin and socket contacts.
HG-3002LCD	Electronically controlled, Liquid Crystal Display (digital) temperature indication, continuously variable temperature from 120 to 1100 degrees F, continuously variable air flow from 7 cfm to 17.6 cfm, 1500 watt, 120 volt A.C. heat gun. Also available for 230 volts.
HL-1502S	Three speed, 120 to 1050 degrees F, 1400 watts, 120 volt A.C. heat gun. Also available for 230 volts.
HL-1802E	Electronically controlled, continuously variable temperature from 120 to 1100 degrees F, 1500 watt, 120 volt A.C. heat gun. Also available for 230 volts.
HL-2002LE	Electronically controlled, LED temperature indication lights, continuously variable temperature from 120 to 1100 degrees F, 1500 watt, 120 volt A.C. heat gun. Also available for 230 volts.
J1276-1 (ST2220-3-34)	Double-ended insertion & removal tool designed for Souriau (Burndy) HYPIN YHMM16-1, YHMM16-3, YHMM16-4, YHMM16-5, YHMM18-2, YHMM20-1, YHMM20-2, YHMM22-1, YHMM22-2 and YHMM24-1 contacts installed in YHLZ, SYHLZ & SYH modular terminal blocks which are commonly found on commercial airliners.
J1276-4	Double-ended insertion & removal tool designed for Souriau (Burndy) HYPIN YHMM16-1, YHMM16-3, YHMM16-4, YHMM16-5, YHMM18-2, YHMM20-1, YHMM20-2, YHMM22-1, YHMM22-2 AND YHMM24-1 contacts installed in YHLZ, SYHLZ & SYH modular terminal blocks which are commonly found on commercial airliners. Long handle tool.
K817-1	Bayonet positioner used with 615717 crimp tool frame on size 22/20 pin contact CTA-0166 installed in Raychem "MTCP" Series Modular Rectangular connectors. Same as Raychem CE-16-05900 positioner.
K817-11	Bayonet positioner used with 615717 crimp tool frame on size 22/20 pin (462-44-16-478) contact installed in Cinch (Labinal) "ACIS" modular rectangular connectors.
K817-2	Bayonet positioner used with 615717 crimp tool frame on size 22/20 pin contact CTA-0093 installed in Raychem "MTC100" Series Modular Rectangular connectors. Same as Raychem CTA-0148.
K818-1	Bayonet positioner used with 615717 crimp tool frame on size 22/20 socket contact CTA-0165 installed in Raychem "MTCP" Series Modular Rectangular connectors. Same as Raychem CE-16-06000 positioner.
K818-11	Bayonet positioner used with 615717 crimp tool frame on size 22/20 socket (318-01-99-036 or 341-01-99-036) contact installed in Cinch (Labinal) "ACIS" modular rectangular connectors.
K818-2	Bayonet positioner used with 615717 crimp tool frame on size 22/20 socket contact CTA-0094 installed in Raychem "MTC100" Series Modular Rectangular connectors. Same as Raychem CTA-0147.
KTH-1000	Standard C-frame crimp tool which accepts Kings Electronics "KTH-****" and Astro Tool "AK****" interchangeable die sets to crimp a wide range of Kings Electronics military and proprietary coaxial and triaxial connectors and contacts. Numerous die sets available. Contact CMS with connector part numbers for die set recommendations.
LP-1	An attachable lens that adds the additional power of an Eye Loupe to the OptiVisor. Designed for Monocular use, it flips up or down providing additional 2-1/2 times magnification. Easily attaches to either eye of the OptiVisor.
M10S-1	Controlled cycle ratchet crimp tool frame designed to be used with die assemblies and stop bushings to crimp machined pin and socket contacts. Contact CMS with connector or contact part numbers for die assembly and stop bushing recommendations.

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M15570-22-1	Double-ended insertion & removal tool designed for size 22 pin (2841-5-9000) and socket (2803-4-0000) contacts installed in Deutsch "RSM", "RTK", "RE", "RM", "UR", "73****", "74****", and "75****" series rear release connectors.
M8ND	Controlled cycle ratchet crimp tool frame designed to be used with die sets to crimp FCI (Burndy) insulated and non-insulated terminals. Contact CMS with terminal part numbers for die set recommendations.
S-1	Die assembly used with M10S-1 crimp tool and SL-53 stop bushing to crimp Souriau (Burndy) YHMM22, 20, 18, 16 and YHMME12 contacts. The CT-905D (LH8) complete crimp tool performs the same function.
SL-53	Stop bushing (locator) used with M10S-1 crimp tool and S-1 die assembly to crimp Souriau (Burndy) YHMM22, 20, 18, 16 and YHMME12 contacts. The CT-905D (LH8) complete crimp tool performs the same function.
TH329	Turret head used with 615708 crimp tool frame on Deutsch contact numbers: 0603-13-2056, 0641-10-2056, 1841-1-5616, 1841-1-5620, 800-20/30-1, 800-20/32-1
W100PG-2W	100 watt controlled output soldering iron. Temperature selection (600, 700 or 800 degrees F) is achieved by changing the tip (700 degree F, 3/8" screwdriver tip included with tool). 2-wire cord.
W60P-2W	60 watt controlled output soldering iron. Temperature selection (600, 700 or 800 degrees F) is achieved by changing the tip (700 degree F, 1/16" screwdriver tip included with tool). 2-wire cord.
X527 (M22520/10-103)	Die set used with 620215 crimp tool frame to crimp size 16 thru 12 environmental splices conforming to MIL-S-81824/1-1 thru /1-3 (Raychem MiniSeal Splices).
X528 (M22520/10-104)	Die set used with 620215 crimp tool frame to crimp size 26 thru 16 environmental splices conforming to MIL-S-81824/1-1 thru /1-3 (Raychem MiniSeal Splices).
Y539 (M22520/5-102)	Die set used with 620175 crimp tool frame to crimp size 16 thru 12 environmental splices conforming to MIL-S-81824/1-1 thru /1-3 (Raychem MiniSeal Splices).
Y540 (M22520/5-103)	Die set used with 620175 crimp tool frame to crimp size 26 thru 16 environmental splices conforming to MIL-S-81824/1-1 thru /1-3 (Raychem MiniSeal Splices).



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