

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-C-83513  
CONNECTORS, ELECTRICAL, RECTANGULAR,  
MICROMINIATURE, POLARIZED SHELL  
GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of products covered by Specification MIL-C-83513. Listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE SUPPLY CENTER COLUMBUS (DSCC-VQ), COLUMBUS, OH 43216-5000.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-286-86 MM-(2,3,4)1(3,2)-(009 thru 100)-113-0000 A thru H C, N	/1	Airborn, Inc.
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-761-87 288-(25)-(10 thru 90,00)-001 A thru H C, N	/1	Cinch Connector
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-332-90 CIM01-(A thru H) (C,N) A thru H C, N	/1	Cristek Interconnects, Inc.
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-387-86 83513-143-91 83513-144-91 MDM ()01-() ( ) ( ,V) (A9 thru H100) ( ,A174) A thru H C, N	/1	ITT Cannon Corp.
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-570-86 83513-286-86 83513-431-89 83513-282-92 EM2-R-(C,E)-09 thru 037-P5-0-S-()500 thru 505 EM3-R-(C,E)-051-P5-0-S-506 EM4-R-(C,E)-100-P5-0-S-500 A thru H C, N	/1	Microdot Connectors
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-389-86 83513-310-89 83513-313-90 094-7(1 thru 9) 04-(0000, 0020) A thru H C, N	/1	Microdot Connectors
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-361-89 83513-120-92 MWDM2-01(A thru H)-PSC ( ,N) A thru H C, N	/1	Microway Systems, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-332-90 100R()()P-B(09 thru 100) A thru H C, N	/1	Phoenix Interconnect, Inc.
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-532-89 N(M,L)(009 thru 051)NPS000000 A thru G C, N	/1	SI-TAC Connectors, Inc.
M83513/01-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-737-86 83513-433-89 MR () N (9 thru 37, 51-3, 100) A thru H C, N	/1	Ulti Mate, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-286-86 MM-(2,3,4)1(3,2)-(009 thru 100)-213-0000-900 A thru H C, N	/2	Airborn, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-761-87 289-(25)-(10 thru 90,00)-001 A thru H C, N	/2	Cinch Connector
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-332-90 CIM02-(A thru H) (C,N) A thru H C, N	/2	Cristek Interconnects, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-387-86 83513-143-91 83513-144-91 MDM ()02-() ()(,V) (A9 thru H100) (,A174) A thru H C, N	/2	ITT Cannon Corp.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-570-86 83513-286-86 83513-397-88 83513-431-89 83513-282-92 EM2-RS-(C,E)-()09 thru 037-S5-0-()500 thru 505 EM3-RS-(C,E)-051-S5-0-S-506 EM4-RS-(C,E)-100-S5-0-S-500 A thru H C, N	/2	Microdot Connectors
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-389-86 83513-310-89 83513-313-90 094-7(1 thru 9) 06-(0000, 0020) A thru H C, N	/2	Microdot Connectors
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-361-89 83513-120-92 MWDML-02(A thru H)-PSC (, N) A thru H C, N	/2	Microway Systems, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-388-86 83513-432-89 M83513/02-() () A thru H C, N	/2	Min-E-Con
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-53-95 100R()()S-B(09 thru 100) A thru H C, N	/2	Phoenix Interconnect, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-532-89 N(M,L)(009 thru 051)SSS000000 A thru G C, N	/2	SI-TAC Connectors, Inc.
M83513/02-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: SHELL FINISH:	83513-737-86 83513-433-89 MR () T (9 thru 37, 51-3, 100) A thru H C, N	/2	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-286-86 MM-(1)()-161-0000 (2,3,4)(2,3)(009 thru 100) A thru H 01 thru 16 C, N	/3	Airborn, Inc.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-761-87 288-(11,15,25)-(10 thru 90,00)-(002 thru 017) A thru H 01 thru 16 C, N	/3	Cinch Connector
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-332-90 CIM03-(A thru H) (01 thru 16) (C,N) A thru H 01 thru 16 C, N	/3	Cristek Interconnects, Inc.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-143-91 83513-144-91 MDM ()03-() () ( ,V) (A9 thru H100)-(01 thru 06) ( ,A174) A thru H 01 thru 06 C, N	/3	ITT Cannon Corp.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-570-86 83513-286-86 83513-431-89 83513-282-92 EM(2,3,4)R(C,E)(009 thru 100) P50H26(M,O,S)(1,3,4),(18.0,36.0,72.0)(500 thru 571) EM(2,3,4)R(C,E)(009 thru 100) P50(L01 thru L04)(500 thru 548) A thru H 01 thru 16 C, N	/3	Microdot Connectors
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-389-86 83513-310-89 83513-313-90 094-8(1 thru 9) 04-00(0,2)(1 thru 8) A thru H 01 thru 08 C, N	/3	Microdot Connectors
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-361-89 83513-120-92 MWDM1-03(A thru H)-PSC ( ,N)(01-P18W, 02-P36W, 03-P18C, 04-P36C, 05-P05G, 06-P10G, 07-P05T,08-P10T) A thru H 01 thru 16 C, N	/3	Microway Systems, Inc.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-388-86 83513-432-89 M83513/03-() () A thru H 01 thru 08 C, N	/3	Min-E-Con
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-332-90 100R()()P-()()()()B (09 thru 100) A thru H 01 thru 16 C, N	/3	Phoenix Interconnect, Inc.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-532-89 N(M,L)(009 thru 051)NP6(A1180,A1360, A5180,A5360,C4005,C4010,C6005,C6010)0 A thru G 01 thru 08 C, N	/3	SI-TAC Connectors, Inc.
M83513/03-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-737-86 83513-433-89 MR () P () (9 thru 37, 51-3, 100) (25, 26 (C3, C4, M1, M5, Y1, Y5)-(0.5, 1.0, 18.0, 36.0, 72.0) A thru H 01 thru 16 C, N	/3	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-286-86 MM-( )2-( )-261-0000-900(2,3,4)(2,3)(009 thru 100) A thru H 01 thru 16 C, N	/4	Airborn, Inc.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-761-87 289-(11,15,25)-(10 thru 90,00)-(002 thru 017) A thru H 01 thru 16 C, N	/4	Cinch Connector
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-332-90 CIM04-(A thru H) (01 thru 16) (C,N) A thru H 01 thru 16 C, N	/4	Cristek Interconnects, Inc.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-143-91 83513-144-91 MDM ( )04-( ) ( ) ( ,V) (A9 thru H100)-(01 thru 06) ( ,A174) A thru H 01 thru 06 C, N	/4	ITF Cannon Corp.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-587-86 83513-286-86 83513-397-88 83513-431-89 83513-282-92 EM(2,3,4)RS(C,E)(009 thru 100)S50H26(M,O,S)(1,3,4), (18.0,36.0,72.0)(500 thru 571) EM(2,3,4)RS(C,E)(009 thru 100) S50(L01 thru L04)(500 thru 548) A thru H 01 thru 16 C, N	/4	Microdot Connectors
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-389-86 83513-310-89 83513-313-90 094-8(1 thru 9) 06-00(0,2)(1 thru 8) A thru H 01 thru 08 C, N	/4	Microdot Connectors
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-361-89 83513-120-92 MWDM1-04(A thru H)-PSC ( ,N)(01-S18W,02-S36W, 03-S18C, 04-S36C, 05-S05G,06-S10G, 07-S05T, 08-S10T) A thru H 01 thru 16 C, N	/4	Microway Systems, Inc.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-388-86 83513-432-89 M83513/04-( ) ( ) A thru H 01 thru 08 C, N	/4	Min-E-Con
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-53-95 100R( )S-( ) ( ) ( ) ( ) B (09 thru 100) A thru H 01 thru 16 C, N	/4	Phoenix Interconnect, Inc.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-532-89 N(M,L)(009 thru 051)SS6(A1180,A1360,A5180, A5360,C4005,C4010,C6005,C6010)0 A thru G 01 thru 08 C, N	/4	SI-TAC Connectors, Inc.
M83513/04-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE: SHELL FINISH:	83513-737-86 83513-433-89 MR ( ) S ( ) (9 thru 37, 51-3, 100)(25, 26 (C3, C4, M1, M5, Y1, Y5)-(0.5, 1.0, 18.0, 36.0, 72.0) A thru H 01 thru 16 C, N	/4	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-286-86 MM-000-000-000-( )00(41,42,43,44,22,81,82,83,84,62) 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Airborn, Inc.
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-761-87 289-00-00-(001,003,005,011,012,013,014,015,016,017) 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Cinch Connector
M83513/05-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TYPE:	83513-332-90 CIM05-(02, 03, 05, 06, 07, 13, 15, 16, 17) A thru H 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Cristek Interconnects, Inc.
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-387-86 83513-143-91 83513-144-91 320-9508-(), 320-9505-030, 329-9505-033 026, 028, 025, 027, 022, 024, 021, 023 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	ITT Cannon Corp.
M83513/05-() MANUFACTURER'S DESIGNATION TYPE:	83513-286-86 83513-388-86 504,004,009,003,010,002,005,007,006,008,001 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Micro Precision Swiss
M83513/05-02 M83513/05-03 M83513/05-05 M83513/05-06 M83513/05-07 M83513/05-12 M83513/05-13 M83513/05-15 M83513/05-16 M83513/05-17	EPMJ-2-03 83513-286-86 EPMJ-3-03 83513-431-89 EPMJ-5-03 EPMJ-6-03 EPMJ-7-03 EPMJ-12-03 EPMJ-13-03 EPMJ-15-03 EPMJ-16-03 EPMJ-17-03	/5	Microdot Connectors
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-389-86 83513-310-89 83513-313-90 096-0002-00 (60, 84, 85, 86, 87, 88, 89, 90, 91) 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Microdot Connectors
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-361-89 MWJS2-502-LPH, MWJS2-503-HPH, MWJS2-505-LPS, MWJS2-506-HPS, MWJS4-512-LPH, MWJS4-513-LPH, MWJS4-515-LPS, MWJS4-516-HPS, MWJS4-517-JPH 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Microway Systems, Inc.
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-388-86 83513-432-89 M83513/05-() () 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Min-E-Con
M83513/05-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TYPE:	83513-53-95 PI83513/05-(),02, 03, 05, 06, 07, 12, 13, 15 A thru H 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Phoenix Interconnect, Inc.
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-532-89 NEX/(A, B, L, J, P) 02, 03, 05, 06, 07	/5	SI-TAC Connectors, Inc.
M83513/05-() MANUFACTURER'S DESIGNATION: TYPE:	83513-737-86 83513-433-89 UMI83513/5-()02,03,05,06,07,12,13,15,16,17 02, 03, 05, 06, 07, 12, 13, 15, 16, 17	/5	Ulti Mate, Inc.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-286-86 MP-()1()-()-113-0000 (2,3)(1,6,E)(009 thru 051) A thru G	/6	Airborn, Inc.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-761-87 288-05-(10 thru 90)-001 A thru G	/6	Cinch Connector
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-332-90 CIM06-(A thru H) A thru G	/6	Cristek Interconnects, Inc.

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M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-387-86 83513-143-91 83513-144-91 MD () B06-() ( ,V) (A9 thru G51) A thru G	/6	ITT Cannon Corp.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-587-86 83513-286-86 83513-431-89 EP2-R-()009 thru 037-P5-0-S-()500 thru 505 EP3-R-051-P5-0-S-506 A thru G	/6	Microdot Connectors
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-389-86 83513-310-89 83513-313-90 095-06 (03, 05, 07, 09, 11, 13, 15) A thru G	/6	Microdot Connectors
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-361-89 MWD-06(A thru G)-PSC A thru G	/6	Microway Systems, Inc.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-53-95 101R()P-B (09 thru 51) A thru G	/6	Phoenix Interconnect, Inc.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-532-89 NP(009 thru 051)NPS000000 A thru G	/6	SI-TAC Connectors, Inc.
M83513/06-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-737-86 83513-433-89 PR()N(9 thru 37, 51-3) A thru G	/6	Ulti Mate, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-286-86 MP-()2()-()-213-0000(2,3)(1,6,E)(009 thru 051) A thru G	/7	Airborn, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-761-87 289-05-(10 thru 90)-001 A thru G	/7	Cinch Connector
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-332-90 CIM07-(A thru H) A thru G	/7	Cristek Interconnects, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-387-86 83513-143-91 83513-144-91 MD () B07-() ( ,V) (A9 thru G51) A thru G	/7	ITT Cannon Corp.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-587-86 83513-286-86 83513-431-89 EP2-RS-()009 thru 037-S5-0-S-()500 thru 505 EP3-RS-051-S5-0-S-506 A thru G	/7	Microdot Connectors
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-389-86 83513-310-89 83513-313-90 095-06 (04, 06, 08, 10, 12, 14, 16) A thru G	/7	Microdot Connectors
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-361-89 MWD-07(A thru G)-SSC A thru G	/7	Microway Systems, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-388-86 83513-432-89 M83513/07-() () A thru G	/7	Min-E-Con
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-53-95 101R()S-B (09 thru 51) A thru G	/7	Phoenix Interconnect, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-532-89 NP(009 thru 051)NSS000000 A thru G	/7	SI-TAC Connectors, Inc.
M83513/07-() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT:	83513-737-86 83513-433-89 PR()T(9 thru 37, 51-3) A thru G	/7	Ulti Mate, Inc.

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M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-286-86 MP-( )1( )-( )-161-0000(2,3)(1)(009 thru 051) A thru G 01 thru 16	/8	Airborn, Inc.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-761-87 288-05-(10 thru 90)-(002 thru 017) A thru G 01 thru 16	/8	Cinch Connector
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-332-90 CIM08-(A thru H) (01 thru 16) A thru G 01 thru 16	/8	Cristek Interconnects, Inc.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-143-91 83513-144-91 MD ( ) B08-( ) ( ,V) (A9 thru G51) (01 thru 06) A thru G 01 thru 06	/8	ITT Cannon Corp.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-570-86 83513-286-86 83513-431-89 EP(2,3)R(009 thru 051)P50H26(M,O,S)(1,3,4) (18.0,36.0,72.0)(500 thru 563) EP(2,3)R(009 thru 051)P50(L01 thru L04) (500 thru 527) A thru G 01 thru 16	/8	Microdot Connectors
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-389-86 83513-310-89 83513-313-90 095-06 (03, 05, 07, 09, 11, 13, 15)-203 (1 thru 8) A thru G 01 thru 08	/8	Microdot Connectors
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-361-89 MWD-08(A thru G)-(P18W, P36W, P18C, P36C, P05G, P10G, P05T, P10T) A thru G 01 thru 16	/8	Microway Systems, Inc.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-388-86 83513-432-89 M83513/08-( ) ( ) A thru G 01 thru 08	/8	Min-E-Con
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-53-95 101R( )P-( ) ( ) ( ) ( ) B (09 thru 51) A thru G 01 thru 16	/8	Phoenix Interconnect, Inc.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-532-89 NP(009 thru 051)NP6(A1180,A1360, A5180,A5360,C4005,C4010,C6005,C6010)0 A thru G 01 thru 08	/8	SI-TAC Connectors, Inc.
M83513/08-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-737-86 83513-433-89 PR ( ) P ( ) (9 thru 37, 51-3)(25, 26(C3, C4, M1, M5, Y1, Y5)-(0.5, 1.0, 18.0, 36.0, 72.0) A thru G 01 thru 16	/8	Ulti Mate, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-286-86 MP-( )2( )-( )-261-0000(2,3)(1)(009 thru 051) A thru G 01 thru 16	/9	Airborn, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-761-87 289-05-(10 thru 90)-(002 thru 017) A thru G 01 thru 16	/9	Cinch Connector

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-332-90 CIM09-(A thru H) (01 thru 16) A thru G 01 thru 16	/9	Cristek Interconnects, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-143-91 83513-144-91 MD () B09-() ( ,V) (A9 thru G51) (01 thru 06) A thru G 01 thru 06	/9	ITT Cannon Corp.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-570-86 83513-286-86 83513-431-89 EP(2,3)R(009 thru 051)S50H26(M,O,S)(1,3,4) (18.0,36.0,72.0)(500 thru 563) EP(2,3)R(009 thru 051)S50(L01 thru L04)(500 thru 527) A thru G 01 thru 16	/9	Microdot Connectors
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-389-86 83513-310-89 83513-313-90 095-06 (04, 06, 08, 10, 12, 14, 16)-203(1 thru 8) A thru G 01 thru 08	/9	Microdot Connectors
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-361-89 MWD-09(A thru G)-(S18W, S36W, S18C, S36C, S05G, S10G, S05T, S10T) A thru G 01 thru 16	/9	Microway Systems, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-388-86 83513-432-89 M83513/09-() () A thru G 01 thru 08	/9	Min-E-Con
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-53-95 101R()S-()()()B (09 thru 51) A thru G 01 thru 16	/8	Phoenix Interconnect, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-532-89 NP(009 thru 051)NS6(A1180,A1360, A5180,A5360,C4005,C4010,C6005,C6010)0 A thru G 01 thru 08	/9	SI-TAC Connectors, Inc.
M83513/09-()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-737-86 83513-433-89 PR () S ()(9 thru 37, 51-3)(25, 26)(C3, C4, M1, M5, Y1, Y5)-(0.5, 1.0, 18.0, 36.0, 72.0) A thru G 01 thru 16	/9	Ulti Mate, Inc.
M83513/10-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-25(2,3)-0(09,15,21,25,31,37)-3(2,3,4)S-(00,22)05 A thru F 01, 02, 03 C, N N, P	/10	Airborn, Inc.
M83513/10-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(10 thru 80)-(0,1,2)(03) A thru F 01, 02, 03 C, N N, P	/10	Cinch Connector
M83513/10-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CML1(A thru F)(01, 02, 03)(C, N)(N, P) A thru F 01, 02, 03 C, N N, P	/10	Cristek Interconnects, Inc.



GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/10-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM10(B15 thru F37)(01, 02, 03)( ,A174P)(N, P) A thru F 01, 02, 03 C, N N, P	/10	ITT Cannon Corp.
M83513/10-()()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/10-()()()()() A thru F 01, 02, 03 C, N N, P	/10	Min-E-Con
M83513/10-()()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()()PCBR()() A thru F 01, 02, 03 C, N N, P	/10	Phoenix Interconnect, Inc.
M83513/10-()()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CMLR(9,15,21,25,31,37)P(0,07)( ,.109, .172)( ,S01) A thru F 01, 02, 03 C, N N, P	/10	Ulti Mate, Inc.
M83513/11-G()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-35(2,3)-051-3(2,3,4)S-(00,22)05 01, 02, 03 C, N N, P	/11	Airborn, Inc.
M83513/11-G()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(90)-(0,1,2)(03) 01, 02, 03 C, N N, P	/11	Cinch Connector
M83513/11-G()()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CML1G(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/11	Cristek Interconnects, Inc.
M83513/11-G()()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM11G51(01, 02, 03)( ,A174P)(N, P) 01, 02, 03 C, N N, P	/11	ITT Cannon Corp.
M83513/11-G()()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/11-G()()()()() 01, 02, 03 C, N N, P	/11	Min-E-Con
M83513/11-G()()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()()51PCBR()() 01, 02, 03 C, N N, P	/11	Phoenix Interconnect, Inc.
M83513/11-G()()()()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CMLR51-3P(0 ,07)( ,.109, .172)( ,S01) 01, 02, 03 C, N N, P	/11	Ulti Mate, Inc.

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M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-45(2,3)-100-3(2,3,4)S-(00,62)05 01, 02, 03 C, N N, P	/12	Airborn, Inc.
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(00)-(0,1,2)(03) 01, 02, 03 C, N N, P	/12	Cinch Connector
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM11H(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/12	Cristek Interconnects, Inc.
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM12H100(01, 02, 03)(,A174P)(N, P) 01, 02, 03 C, N N, P	/12	ITT Cannon Corp.
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/12-H()()() 01, 02, 03 C, N N, P	/12	Min-E-Con
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()()100PCBR()() 01, 02, 03 C, N N, P	/12	Phoenix Interconnect, Inc.
M83513/12-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM1R100P(0,07)(, .109, .172)(,S01) 01, 02, 03 C, N N, P	/12	Ulti Mate, Inc.
M83513/13-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-26(2,3)-0(09,15,21,25,31,37)-4(3,4,5) S-(00,22)05-900 A thru F 01, 02, 03 C, N N, P	/13	Airborn, Inc.
M83513/13-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(10 thru 80)-(0,1,2)(03) A thru F 01, 02, 03 C, N N, P	/13	Cinch Connector
M83513/13-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM13(A thru F)(01, 02, 03)(C, N)(N, P) A thru F 01, 02, 03 C, N N, P	/13	Cristek Interconnects, Inc.
M83513/13-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM13(A9 thru F37)(01, 02, 03)(,A174P)(N, P) A thru F 01, 02, 03 C, N N, P	/13	ITT Cannon Corp.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/13-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/13-()()() A thru F 01, 02, 03 C, N N, P	/13	Min-E-Con
M83513/13-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()SCBR() A thru F 01, 02, 03 C, N N, P	/13	Phoenix Interconnect, Inc.
M83513/13-()()() MANUFACTURER'S DESIGNATION:  INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM1R(9,15,21,25,31,37)S(0,07) (.109,.172)(,S01) A thru F 01, 02, 03 C, N N, P	/13	Ulti Mate, Inc.
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-36(2,3)-051-4(3,4,5)S-(00,22)05-900 01, 02, 03 C, N N, P	/14	Airborn, Inc.
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(90)-(0,1,2)(03) 01, 02, 03 C, N N, P	/14	Cinch Connector
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM14G(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/14	Cristek Interconnects, Inc.
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM14G51(01, 02, 03)(,A174P)(N, P) 01, 02, 03 C, N N, P	/14	ITT Cannon Corp.
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/14-G()()() 01, 02, 03 C, N N, P	/14	Min-E-Con
M83513/14-()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()51SCBR() 01, 02, 03 C, N N, P	/14	Phoenix Interconnect, Inc.
M83513/14-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM1R51-3S(0,07)(.109,.172)(,S01) 01, 02, 03 C, N N, P	/14	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-46(2,3)-100-4(3,4,5)S-(00,62)05-900 01, 02, 03 C, N N, P	/15	Airborn, Inc.
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(00)-(0,1,2)(03) 01, 02, 03 C, N N, P	/15	Cinch Connector
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM15H(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/15	Cristek Interconnects, Inc.
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM15H100(01, 02, 03)(,A174P)(N, P) 01, 02, 03 C, N N, P	/15	ITT Cannon Corp.
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/15-H()()() 01, 02, 03 C, N N, P	/15	Min-E-Con
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()100SCBR()() 01, 02, 03 C, N N, P	/15	Phoenix Interconnect, Inc.
M83513/15-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM1R100S(0,07)(, .109, .172)(,S01) 01, 02, 03 C, N N, P	/15	Ulti Mate, Inc.
M83513/16-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-27(2,3)-0(09,15,21,25,31,37)-3(2,3,4) S-(00,22)0R A thru F 01, 02, 03 C, N N, P	/16	Airborn, Inc.
M83513/16-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(10 thru 80)-(0,1,2)(02) A thru F 01, 02, 03 C, N N, P	/16	Cinch Connector
M83513/16-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM16(A9 thru F37)(01, 02, 03)(,A174P)(N, P) A thru F 01, 02, 03 C, N N, P	/16	ITT Cannon Corp.
M83513/16-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/16-()()()() A thru F 01, 02, 03 C, N N, P	/16	Min-E-Con

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/16-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()PBR() A thru F 01, 02, 03 C, N N, P	/16	Phoenix Interconnect, Inc.
M83513/16-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM51R(9,15,21,25,31,37)P(0,07)(.109,.172)(.S01) A thru F 01, 02, 03 C, N N, P	/16	Ulti Mate, Inc.
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-37(2,3)-051-3(2,3,4)S-(00,22)OR 01, 02, 03 C, N N, P	/17	Airborn, Inc.
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(90)-(0,1,2)(02) 01, 02, 03 C, N N, P	/17	Cinch Connector
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM17G51(01, 02, 03)(.A174P)(N, P) 01, 02, 03 C, N N, P	/17	ITT Cannon Corp.
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/17-G()()() 01, 02, 03 C, N N, P	/17	Min-E-Con
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()51PBR() 01, 02, 03 C, N N, P	/17	Phoenix Interconnect, Inc.
M83513/17-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM51R51-3P(0,07)(.109,.172)(.S01) 01, 02, 03 C, N N, P	/17	Ulti Mate, Inc.
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-47(2,3)-100-3(2,3,4)S-(00,22)OR 01, 02, 03 C, N N, P	/18	Airborn, Inc.
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(00)-(0,1,2)(02) 01, 02, 03 C, N N, P	/18	Cinch Connector
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM18H100(01, 02, 03)(.A174P)(N, P) 01, 02, 03 C, N N, P	/18	ITT Cannon Corp.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/18-H()()() 01, 02, 03 C, N N, P	/18	Min-E-Con
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()100PBR()() 01, 02, 03 C, N N, P	/18	Phoenix Interconnect, Inc.
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM51R100P(0,07)(, .109, .172)(,S01) 01, 02, 03 C, N N, P	/18	Ulti Mate, Inc.
M83513/19-()()()() MANUFACTURER'S DESIGNATION:  INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-28(2,3)-0(09,15,21,25,31,37)-4(3,4,5) S-(00,22)0R-900 A thru F 01, 02, 03 C, N N, P	/19	Airborn, Inc.
M83513/19-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(10 thru 80)-(0,1,2)(02) A thru F 01, 02, 03 C, N N, P	/19	Cinch Connector
M83513/19-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM19(A9 thru F37)(01, 02, 03)(,A174P)(N, P) A thru F 01, 02, 03 C, N N, P	/19	ITT Cannon Corp.
M83513/19-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/19-()()()() A thru F 01, 02, 03 C, N N, P	/19	Min-E-Con
M83513/19-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()SBR()() A thru F 01, 02, 03 C, N N, P	/19	Phoenix Interconnect, Inc.
M83513/19-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM5R(9,15,21,25,31,37)S(0,07)(, .109, .172)(,S01) A thru F 01, 02, 03 C, N N, P	/19	Ulti Mate, Inc.

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M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-38(2,3)-051-4(3,4,5)S-(00,22)0R-900 01, 02, 03 C, N N, P	/20	Airborn, Inc.
M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(90)-(0,1,2)(02) 01, 02, 03 C, N N, P	/20	Cinch Connector
M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM20G51(01, 02, 03)(,A174P)(N, P) 01, 02, 03 C, N N, P	/20	ITT Cannon Corp.
M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/20-G()()() 01, 02, 03 C, N N, P	/20	Min-E-Con
M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()51SBR()() 01, 02, 03 C, N N, P	/20	Phoenix Interconnect, Inc.
M83513/20-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM5R51-3S(0,07)(, .109, .172)(,S01) 01, 02, 03 C, N N, P	/20	Ulti Mate, Inc.
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-48(2,3)-100-4(3,4,5)S-(00,62)0R-900 01, 02, 03 C, N N, P	/21	Airborn, Inc.
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(00)-(0,1,2)(02) 01, 02, 03 C, N N, P	/21	Cinch Connector
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM21H100(01, 02, 03)(,A174P)(N, P) 01, 02, 03 C, N N, P	/21	ITT Cannon Corp.
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/21-H()()() 01, 02, 03 C, N N, P	/21	Min-E-Con
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()100SBR()() 01, 02, 03 C, N N, P	/21	Phoenix Interconnect, Inc.
M83513/21-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM5R100S(0,07)(, .109, .172)(,S01) 01, 02, 03 C, N N, P	/21	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-283-92 MK-21(2,3)-0(09,15,21,25,31,37)-1(2,3,4) S-(00,22)00	/22	Airborn, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-006-95 288-(61 thru 66)-(10 thru 80)-(0,1,2)(01)	/22	Cinch Connector
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-284-92 CM22(A thru F)(01, 02, 03)(C, N)(N, P)	/22	Cristek Interconnects, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-69-93 MDM22(A9 thru F37)(01, 02, 03)( ,A174P)(N, P)	/22	ITT Cannon Corp.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-32-94 M83513/22-()()()()	/22	Min-E-Con
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-054-95 100R()()PBS()()	/22	Phoenix Interconnect, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/22-()()() MANUFACTURER'S DESIGNATION:	83513-218-92 CM4R(9,15,21,25,31,37)P(0,07)( ,.109, .172)( ,S01)	/22	Ulti Mate, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-283-92 MK-31(2,3)-051-1(2,3,4)S-(00,22)00	/23	Airborn, Inc.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-006-95 288-(61 thru 66)-(90)-(0,1,2)(01)	/23	Cinch Connector
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-284-92 CM23G(01, 02, 03)(C, N)(N, P)	/23	Cristek Interconnects, Inc.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		



GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/23-G()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM23G51(01, 02, 03)( ,A174P)(N, P) 01, 02, 03 C, N N, P	/23	ITT Cannon Corp.
M83513/23-G()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/23-G()() 01, 02, 03 C, N N, P	/23	Min-E-Con
M83513/23-G()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()51PBS() 01, 02, 03 C, N N, P	/23	Phoenix Interconnect, Inc.
M83513/23-G()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM4R51-3P(0 ,07)( ,.109, .172)( ,S01) 01, 02, 03 C, N N, P	/23	Ulti Mate, Inc.
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-41(2,3)-100-1(2,3,4)S-(00,62)00 01, 02, 03 C, N N, P	/24	Airborn, Inc.
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(00)-(0,1,2)(01) 01, 02, 03 C, N N, P	/24	Cinch Connector
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM24H(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/24	Cristek Interconnects, Inc.
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM24H100(01, 02, 03)( ,A174P)(N, P) 01, 02, 03 C, N N, P	/24	ITT Cannon Corp.
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/24-H()() 01, 02, 03 C, N N, P	/24	Min-E-Con
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()100PBS() 01, 02, 03 C, N N, P	/24	Phoenix Interconnect, Inc.
M83513/24-H()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM4R100P(0 ,07)( ,.109, .172)( ,S01) 01, 02, 03 C, N N, P	/24	Ulti Mate, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-283-92 MK-22(2,3)-0(09,15,21,25,31,37)-2(2,3,4) S-(00,22)00-900	/25	Airborn, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-006-95 289-(61 thru 66)-(10 thru 80)-(0,1,2)(01)	/25	Cinch Connector
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-284-92 CM25(A thru F)(01, 02, 03)(C, N)(N, P)	/25	Cristek Interconnects, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-69-93 MDM25(A9 thru F37)(01, 02, 03)(,A174P)(N, P)	/25	ITT Cannon Corp.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-32-94 M83513/25-()()()()	/25	Min-E-Con
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-054-95 100R()()SBS()()	/25	Phoenix Interconnect, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/25-()()()() MANUFACTURER'S DESIGNATION:	83513-218-92 CM4R(9,15,21,25,31,37)S(0,07) (, .109, .172)(,S01)	/25	Ulti Mate, Inc.
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/26-G()()()() MANUFACTURER'S DESIGNATION:	83513-283-92 MK-32(2,3)-051-2(2,3,4)S-(00,22)00-900	/26	Airborn, Inc.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/26-G()()()() MANUFACTURER'S DESIGNATION:	83513-006-95 289-(61 thru 66)-(90)-(0,1,2)(01)	/26	Cinch Connector
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/26-G()()()() MANUFACTURER'S DESIGNATION:	83513-284-92 CM26G(01, 02, 03)(C, N)(N, P)	/26	Cristek Interconnects, Inc.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/26-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM26G51(01, 02, 03)( ,A174P)(N, P) 01, 02, 03 C, N N, P	/26	ITT Cannon Corp.
M83513/26-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/26-G()()() 01, 02, 03 C, N N, P	/26	Min-E-Con
M83513/26-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()51SBS()() 01, 02, 03 C, N N, P	/26	Phoenix Interconnect, Inc.
M83513/26-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM4R51-3S(0 ,07)( ,.109, .172)( ,S01) 01, 02, 03 C, N N, P	/26	Ulti Mate, Inc.
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-42(2,3)-100-2(2,3,4)S-(00,62)00-900 01, 02, 03 C, N N, P	/27	Airborn, Inc.
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 289-(61 thru 66)-(00)-(0,1,2)(01) 01, 02, 03 C, N N, P	/27	Cinch Connector
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM27H(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/27	Cristek Interconnects, Inc.
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM27H100(01, 02, 03)( ,A174P)(N, P) 01, 02, 03 C, N N, P	/27	ITT Cannon Corp.
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-32-94 M83513/27-H()()() 01, 02, 03 C, N N, P	/27	Min-E-Con
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-054-95 100R()100SBS()() 01, 02, 03 C, N N, P	/27	Phoenix Interconnect, Inc.
M83513/27-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-218-92 CM4R100S(0 ,07)( ,.109, .172)( ,S01) 01, 02, 03 C, N N, P	/27	Ulti Mate, Inc.

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Airborn, Inc. 4321 Airborn Drive Addison, TX 75001-0519 Plants: 1. Same Address 2. P.O. Box 78 215 West Royal Drive Georgetown, TX 78626 3. Border Electronics 6 A.Y. Teran No. 46 Matamoros, TAM, Mexico	10400	SI-TAC Connectors, Inc. 638 S. State College Blvd. Fullerton, CA 92631 Plant: Same Address DISTRIBUTOR: Hypertac, Ltd. Waterloo Road London NW2 7UH England	56249
Cinch Connector Division of Labinal Components and Systems, Inc. 1501 Morse Avenue Elk Grove Village, IL 60007-5782 Plants: 1. 820 North Wilson Avenue Vinita, OK 74301 2. Cinch Connectors, Ltd. Shireoaks Road Worksop Notts S80 United Kingdom	71785	Ulti Mate, Inc. 641 N. Poplar Street Orange, CA 92668 Plant: Same Address DISTRIBUTORS: March Electronics, Inc. 25 Feldland Street Bohemia, NY 11716  New Chapel Electronics, Ltd. London Road Fairford, Glos GL7 4DS England	58967
Cristek Interconnects, Inc. 1301 S. Lewis Street Anaheim, CA 92805 Plant: Same Address	67720		
ITT Cannon 666 East Dyer Road Santa Ana, CA 92702-0929 Plants: 1. Same Address 2. ITT Cannon Prolongacion Avenida Obregon #3673 Nogales, Sonora, Mexico	71468		
Micro Precision Swiss 26401 Calle Rolando San Juan Capistrano, CA 92675 Plant: Same Address			
Microdot Connectors 306 South Pasadena Avenue Pasadena, CA 91030-2905 Plant: Same Address	98278		
Microway Systems, Inc. 7000 N. Lawndale Avenue Lincolnwood, IL 60645-2610 Plant: Same Address			
Min-E-Con 3160 Pullman Avenue Costa Mesa, CA 92626 Plant: Same Address	54455		
Phoenix Interconnect, Inc. 14251 Franklin Street Tustin, CA 92680 Plant: Same Address			