



QUALIFICATIONS VALIDATED
EVERY 24 MONTHS

QPL-83513-42
20 December 2002
SUPERSEDING
QPL-83513-41
13 March 2002

QUALIFIED PRODUCTS LIST
OF
PRODUCTS QUALIFIED UNDER DETAIL SPECIFICATION
MIL-DTL-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-DTL-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:	83513-361-89 83513-120-92 MWDM2-01(A thru H)-PSC (,N) A thru H C, N	/1	Microway Systems - Div. of Glenair, Inc.
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.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/01-()()	83513-570-86 83513-286-86 83513-431-89 83513-282-92	/1	Tyco Electronics
MANUFACTURER'S DESIGNATION:	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		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/01-()()	83513-389-86 83513-310-89 83513-313-90	/1	Tyco Electronics
MANUFACTURER'S DESIGNATION:	094-7(1 thru 9) 04-(0000, 0020)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-286-86	/2	Airborn, Inc.
MANUFACTURER'S DESIGNATION:	MM-(2,3,4)1(3,2)-(009 thru 100)-213-0000-900		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-761-87	/2	Cinch Connector
MANUFACTURER'S DESIGNATION:	289-(25)-(10 thru 90,00)-001		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-332-90	/2	Cristek Interconnects, Inc.
MANUFACTURER'S DESIGNATION:	CIM02-(A thru H) (C,N)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-387-86 83513-143-91 83513-144-91	/2	ITT Cannon Corp.
MANUFACTURER'S DESIGNATION:	MDM ()02-() ()(,V) (A9 thru H100) (,A174)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-361-89 83513-120-92	/2	Microway Systems - Div. of Glenair, Inc.
MANUFACTURER'S DESIGNATION:	MWDM1-02(A thru H)-PSC (, N)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-388-86 83513-432-89	/2	Min-E-Con
MANUFACTURER'S DESIGNATION:	M83513/02-() ()		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-53-95	/2	Phoenix Interconnect, Inc.
MANUFACTURER'S DESIGNATION:	100R())S-B(09 thru 100)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-570-86 83513-286-86 83513-397-88 83513-431-89 83513-282-92	/2	Tyco Electronics
MANUFACTURER'S DESIGNATION:	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		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		
M83513/02-()()	83513-389-86 83513-310-89 83513-313-90	/2	Tyco Electronics
MANUFACTURER'S DESIGNATION:	094-7(1 thru 9) 06-(0000, 0020)		
INSERT ARRANGEMENT:	A thru H		
SHELL FINISH:	C, N		

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:	83513-361-89 83513-120-92 MWDML-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 - Div. of Glenair, 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 16 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:	83513-570-86 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	Tyco Electronics
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	Tyco Electronics

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	ITT Cannon Corp.
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 - Div. of Glenair, 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 16 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:	83513-587-86 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	Tyco Electronics
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	Tyco Electronics
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.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE		DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/05-02	500-002	83513-286-86	/5	Hi-Tech Swiss Engineering
M83513/05-03	500-003			
M83513/05-05	500-005			
M83513/05-06	500-006			
M83513/05-07	500-007			
M83513/05-12	500-012			
M83513/05-13	500-013			
M83513/05-15	500-015			
M83513/05-16	500-016			
M83513/05-17	500-017			
M83513/05-() MANUFACTURER'S DESIGNATION:	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		/5	ITT Cannon Corp.
TYPE:	02, 03, 05, 06, 07, 12, 13, 15, 16, 17			
M83513/05-() MANUFACTURER'S DESIGNATION:	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		/5	Microway Systems - Div. of Glenair, Inc.
TYPE:	02, 03, 05, 06, 07, 12, 13, 15, 16, 17			
M83513/05-() MANUFACTURER'S DESIGNATION:	83513-388-86 83513-432-89 M83513/05-() ()		/5	Min-E-Con
TYPE:	02, 03, 05, 06, 07, 12, 13, 15, 16, 17			
M83513/05-() MANUFACTURER'S DESIGNATION:	83513-53-95 PI83513/05-(), 02, 03, 05, 06, 07, 12, 13, 15		/5	Phoenix Interconnect, Inc.
INSERT ARRANGEMENT:	A thru H			
TYPE:	02, 03, 05, 06, 07, 12, 13, 15, 16, 17			
M83513/05-02	EPMJ-2-03	83513-286-86	/5	Tyco Electronics
M83513/05-03	EPMJ-3-03	83513-431-89		
M83513/05-05	EPMJ-5-03			
M83513/05-06	EPMJ-6-03			
M83513/05-07	EPMJ-7-03			
M83513/05-12	EPMJ-12-03			
M83513/05-13	EPMJ-13-03			
M83513/05-15	EPMJ-15-03			
M83513/05-16	EPMJ-16-03			
M83513/05-17	EPMJ-17-03			
M83513/05-() MANUFACTURER'S DESIGNATION:	83513-389-86 83513-310-89 83513-313-90 S96-0002-00 (89, 88, 87, 86, 85, 84, 91, 90, 60) or 5-1532137-(5, 6, 7, 8, 9), 6-1532137-(0, 1, 2, 3, 4)		/5	Tyco Electronics
TYPE:	02, 03, 05, 06, 07, 12, 13, 15, 16, 17			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-286-86 MP-()1()-()-113-0000 (2,3)(1,6,E)(009 thru 051)		/6	Airborn, Inc.
INSERT ARRANGEMENT:	A thru G			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-761-87 288-05-(10 thru 90)-001		/6	Cinch Connector
INSERT ARRANGEMENT:	A thru G			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-332-90 CIM06-(A thru H)		/6	Cristek Interconnects, Inc.
INSERT ARRANGEMENT:	A thru G			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-387-86 83513-143-91 83513-144-91 MD () B06-() (,V) (A9 thru G51)		/6	ITT Cannon Corp.
INSERT ARRANGEMENT:	A thru G			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-361-89 MWD-06(A thru G)-PSC		/6	Microway Systems - Div. of Glenair, Inc.
INSERT ARRANGEMENT:	A thru G			
M83513/06-() MANUFACTURER'S DESIGNATION:	83513-53-95 101R()P-B (09 thru 51)		/6	Phoenix Interconnect, Inc.
INSERT ARRANGEMENT:	A thru G			

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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	Tyco Electronics
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	Tyco Electronics
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:	83513-361-89 MWD-07(A thru G)-SSC A thru G	/7	Microway Systems - Div. of Glenair, 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:	83513-587-86 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	Tyco Electronics
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	Tyco Electronics
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.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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 - Div. of Glenair, Inc.
M83513/08-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-388-86 83513-432-89 M83513/08-()() A thru G 01 thru 16	/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:	83513-570-86 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	Tyco Electronics
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	Tyco Electronics
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
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:	83513-361-89 MWD-09(A thru G)-(S18W, S36W, S18C, S36C, S05G, S10G, S05T, S10T) A thru G 01 thru 16	/9	Microway Systems - Div. of Glenair, Inc.
M83513/09-()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: WIRE TYPE:	83513-388-86 83513-432-89 M83513/09-()() A thru G 01 thru 16	/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.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/09-()()	83513-570-86 83513-286-86 83513-431-89	/9	Tyco Electronics
MANUFACTURER'S DESIGNATION:	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)		
INSERT ARRANGEMENT:	A thru G		
WIRE TYPE:	01 thru 16		
M83513/09-()()	83513-389-86 83513-310-89 83513-313-90	/9	Tyco Electronics
MANUFACTURER'S DESIGNATION:	095-06 (04, 06, 08, 10, 12, 14, 16)-203(1 thru 8)		
INSERT ARRANGEMENT:	A thru G		
WIRE TYPE:	01 thru 08		
M83513/10-()()()	83513-283-92	/10	Airborn, Inc.
MANUFACTURER'S DESIGNATION:	MK-25(2,3)-0(09,15,21,25,31,37)-3(2,3,4)S-(00,22)05		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-006-95	/10	Cinch Connector
MANUFACTURER'S DESIGNATION:	288-(61 thru 66)-(10 thru 80)-(0,1,2)(03)		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-284-92	/10	Cristek Interconnects, Inc.
MANUFACTURER'S DESIGNATION:	CM11(A thru F)(01, 02, 03)(C, N)(N, P)		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-69-93	/10	ITT Cannon Corp.
MANUFACTURER'S DESIGNATION:	MDM10(B15 thru F37)(01, 02, 03)(,A174P)(N, P)		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-094-98	/10	Microway Systems - Div. of Glenair, Inc.
MANUFACTURER'S DESIGNATION:	MDWM-10-(A thru F)(01P.109,02P.140,03P.172)(1,2)(B,P)		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-32-94	/10	Min-E-Con
MANUFACTURER'S DESIGNATION:	M83513/10-()()()		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-054-95	/10	Phoenix Interconnect, Inc.
MANUFACTURER'S DESIGNATION:	100R()()PCBR()		
INSERT ARRANGEMENT:	A thru F		
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/10-()()()	83513-031-98 83513-313-90	/10	Tyco Electronics
MANUFACTURER'S DESIGNATION:	83513-310-89 83513-389-86 094-4(1 thru 6)(14,24)-(00,70)(01,02,03)		
INSERT ARRANGEMENT:	A thru F		
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)
M83513/11-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 CM11G(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:	83513-094-98 MDWM-11G(01P.109,02P.140,03P.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/11	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-47(14,24)-(00,70)(01,02) 01, 02, 03 C, N N, P	/11	Tyco Electronics
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.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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:	83513-094-98 MDWM-12H(01P.109,02P.140,03P.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/12	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-49(14,24)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/12	Tyco Electronics
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.
M83513/13-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-094-98 MDWM-13-(A thru F)(01S.109,02S.140,03S.172)(1,2)(B,P) A thru F 01, 02, 03 C, N N, P	/13	Microway Systems - Div. of Glenair, Inc.

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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-4(1 thru 6)(16,26)-(00,70)(01,02,03) A thru F 01, 02, 03 C, N N, P	/13	Tyco Electronics
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:	83513-094-98 MDWM-14G(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/14	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-47(16,26)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/14	Tyco Electronics

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:	83513-094-98 MDWM-15H(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/15	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-49(16,26)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/15	Tyco Electronics
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.

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:	83513-094-98 MDWM-16-(A thru F)(01P.109,02P.140,03P.172)(1,2)(B,P) A thru F 01, 02, 03 C, N N, P	/16	Microway Systems - Div. of Glenair, Inc.
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
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-4(1 thru 6)(14,24)-(00,70)(04,05,06,07) A thru F 01, 02, 03 C, N N, P	/16	Tyco Electronics
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:	83513-094-98 MDWM-17G(01P.109,02P.140,03P.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/17	Microway Systems - Div. of Glenair, Inc.
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
M83513/17G()()()() 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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-47(14,24)-(00,70)(04,05,06) 01, 02, 03 C, N N, P	/17	Tyco Electronics

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:	83513-283-92 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)-(100)-(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.
M83513/18-H()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-094-98 MDWM-18H(01P.109,02P.140,03P.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/18	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-49(14,24)-(00,70)(04,05,06) 01, 02, 03 C, N N, P	/18	Tyco Electronics
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)OR-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:	83513-094-98 MDWM-19-(A thru F)(01S.109,02S.140,03S.172) (1,2)(B,P) A thru F 01, 02, 03 C, N N, P	/19	Microway Systems - Div. of Glenair, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-4(1 thru 6)(16,26)-(00,70)(04,05,06) A thru F 01, 02, 03 C, N N, P	/19	Tyco Electronics
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:	83513-094-98 MDWM-20G(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/20	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-47(16,26)-(00,70)(04,05) 01, 02, 03 C, N N, P	/20	Tyco Electronics

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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:	83513-094-98 MDWM-21H(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/21	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-49(16,26)-(00,70)(04,05,06) 01, 02, 03 C, N N, P	/21	Tyco Electronics
M83513/22-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-283-92 MK-21(2,3)-0(09,15,21,25,31,37)-1(2,3,4) S-(00,22)00 A thru F 01, 02, 03 C, N N, P	/22	Airborn, Inc.
M83513/22-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-006-95 288-(61 thru 66)-(10 thru 80)-(0,1,2)(01) A thru F 01, 02, 03 C, N N, P	/22	Cinch Connector
M83513/22-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM22(A thru F)(01, 02, 03)(C, N)(N, P) A thru F 01, 02, 03 C, N N, P	/22	Cristek Interconnects, Inc.
M83513/22-()()()() MANUFACTURER'S DESIGNATION: INSERT ARRANGEMENT: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-69-93 MDM22(A9 thru F37)(01, 02, 03)(,A174P)(N, P) A thru F 01, 02, 03 C, N N, P	/22	ITT Cannon Corp.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/22-()()()() MANUFACTURER'S DESIGNATION:	83513-094-98 MDWM-22-(A thru F)(01P.109,02P.140,03P.172) (1,2)(B,P)	/22	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-5(1 thru 6)(14,24)-(00,70)(01,02,03)	/22	Tyco Electronics
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)00,01,02,03	/23	Airborn, Inc.
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		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-69-93 MDM23G51(01, 02, 03)(,A174P)(N, P)	/23	ITT Cannon Corp.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-094-98 MDWM-23G(01P.109,02P.140,03P.172)(1,2)(B,P)	/23	Microway Systems - Div. of Glenair, Inc.
TERMINATION LENGTH:	01, 02, 03		
SHELL FINISH:	C, N		
HARDWARE:	N, P		
M83513/23-G()()() MANUFACTURER'S DESIGNATION:	83513-32-94 M83513/23-G()()()()	/23	Min-E-Con
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:	83513-054-95 100R()51PBS()() 01, 02, 03 C, N N, P	/23	Phoenix Interconnect, Inc.
M83513/23-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-57(14,24)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/23	Tyco Electronics
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:	83513-094-98 MDWM-24H(01P.109,02P.140,03P.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/24	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-59(14,24)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/24	Tyco Electronics

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	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:	83513-094-98 MDWM-25-(A thru F)(01S.109,02S.140,03S.172) (1,2)(B,P)	/25	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-5(1 thru 6)(16,26)-(00,70)(04,05,06)	/25	Tyco Electronics
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		

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFICATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
M83513/26-G()()() MANUFACTURER'S DESIGNATION: TERMINATION LENGTH: SHELL FINISH: HARDWARE:	83513-284-92 CM26G(01, 02, 03)(C, N)(N, P) 01, 02, 03 C, N N, P	/26	Cristek Interconnects, Inc.
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:	83513-094-98 MDWM-26G(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/26	Microway Systems - Div. of Glenair, Inc.
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-57(16,26)-(00,70)(04,05) 01, 02, 03 C, N N, P	/26	Tyco Electronics
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:	83513-094-98 MDWM-27H(01S.109,02S.140,03S.172)(1,2)(B,P) 01, 02, 03 C, N N, P	/27	Microway Systems - Div. of Glenair, Inc.

GOVERNMENT DESIGNATION	TEST OR QUALIFICATION REFERENCE	DETAIL SPECIFI- CATION	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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:	83513-031-98 83513-313-90 83513-310-89 83513-389-86 094-59(16,26)-(00,70)(01,02,03) 01, 02, 03 C, N N, P	/27	Tyco Electronics

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	10400	Tyco Electronics 306 South Pasadena Avenue Pasadena, CA 91030-2905 Plant: Same Address	98278
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		
Cristek Interconnects, Inc. 1301 S. Lewis Street Anaheim, CA 92805 Plant: Same Address	67720		
Hi-Tech Swiss Engineering 4079 Oceanside Boulevard, Suite G Oceanside, CA 92956 Plant: Same Address	15286		
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		
Microway Systems Division of Glenair, Inc. 7000 N. Lawndale Avenue Lincolnwood, IL 60645-2610 Plant: Same Address DISTRIBUTOR: Glenair, Inc. 1211 Air Way Glendale, CA 91201-2497	OCA77		
Min-E-Con 17312 Eastman Irvine, CA 92614 Plant: Same Address	54455		
Phoenix Interconnect, Inc. 15445 Redhill Avenue, Suite A Tustin, CA 92780 Plant: Same Address DISTRIBUTOR: Tim-Co Component Sales 7001 Eton Avenue Canoga Park, CA 91303	OAEZ1		