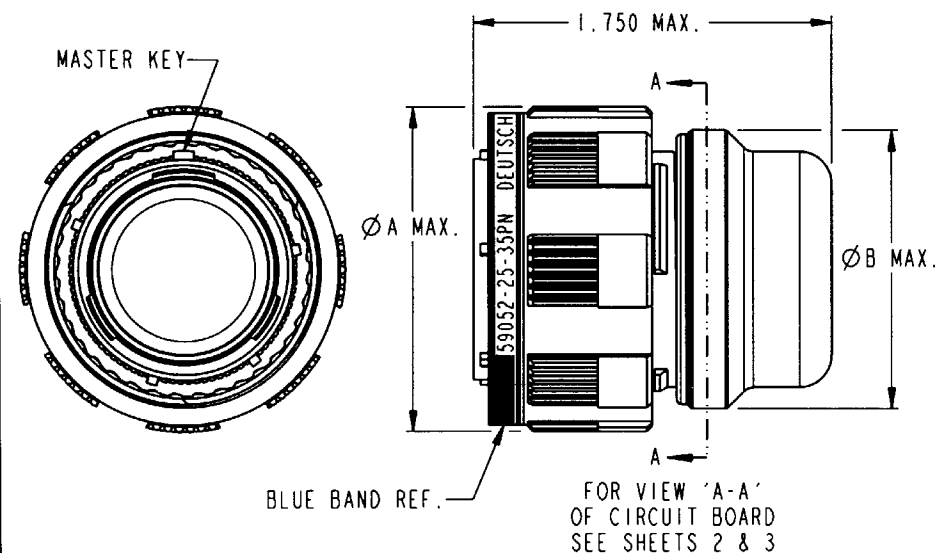


PROPERTY OF DEUTSCH E.C.D.

This drawing contains proprietary information that shall not be disclosed, duplicated, nor used in whole or in part for any purpose other than to evaluate this drawing.



4. FOR APPLICABLE KEYING DIAGRAM, SEE MIL-DTL-38999, FOR INSERT ARRANGEMENTS, SEE MIL-STD-1560. CONSULT FACTORY FOR AVAILABILITY.
3. GENERAL SPECIFICATIONS: THIS CONNECTOR MEETS THE INTERMATEABILITY AND APPLICABLE PERFORMANCE REQUIREMENTS OF MIL-DTL-38999, SERIES III.

2. MATERIAL / FINISH: SHELL - COMPOSITE, SEE PART NUMBER DESCRIPTION
 COUPLING RING - COMPOSITE
 CONTACTS - COPPER ALLOY, DEUTSCHCOAT V
 RESILIENT INSERTS - SILICONE ELASTOMER
 PLASTIC INSERTS - THERMOPLASTIC
 BACKPACK COVER - COMPOSITE, SEE PART NUMBER DESCRIPTION
 - OR ALUMINUM ALLOY, SEE PART NUMBER DESCRIPTION

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

G 59052*****P/S*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
G	CHANGED PER E.O. C5525	11 MAR 83	A.R.

DEUTSCH PART NUMBER	SIZE	ØA MAX.	ØB MAX.	BOMBARDIER PART NUMBER	CIRCUIT BOARD	CANTWELL CULLEN P/N
59052-13A98PN	13	1.157	.953	BA670-50002-1	-1	3C-99028-1
59052-13B98PN	13	1.157	.953	BA670-50002-3	-3	3C-99028-3
59052-19A32SN	19	1.515	1.347	BA670-50002-47	-47	3C-99028-47
59052-19B32SN	19	1.515	1.347	BA670-50002-49	-49	3C-99028-49
59052-19C32SN	19	1.515	1.347	BA670-50002-69	-69	N/A
59052-19D32SN	19	1.515	1.347	BA670-50002-71	-71	N/A
59052-25A04SA	25	1.889	1.700	BA670-50002-43	-43	3C-99028-43
59052-25C04SA	25	1.889	1.700	BA670-50002-45	-45	3C-99028-45
59052-25D04SA	25	1.889	1.700	BA670-50002-65	-65	N/A
59052-25E04SA	25	1.889	1.700	BA670-50002-67	-67	N/A
59052-25A29PN-4048	25	1.889	1.700	N/A	N/A	3C-01026
59052-25-35PN	25	1.889	1.700	N/A	N/A	3C-97025
59052-25-61PN	25	1.889	1.700	N/A	N/A	3C-97024

2. 59052 - 13 - 98 P N - ****

MODIFICATIONS

KEYING POSITION A, B, C, D OR E

CONTACT P = PIN, S = SOCKET

ARRANGEMENT

TRACE PATTERN -, A, B, ...X...

SIZE 09, 11, 13, 15, 17, 19, 21, 23 OR 25

PLATING - = NICKEL, W = OLIVE DRAB CADMIUM

BASIC IDENTIFIER

PLUG CONNECTOR ACT TYPE WITH EXTENDED PIN CIRCUIT BOARD BUSSED CONTACTS

SIGNATURE & DATE	
DR	D. WHITACRE 1/15/97
CNR	B. J. H. 6/120/97
PE	D. WHITACRE 1/15/97
APPD	<i>[Signature]</i> 3/1/03
SCALE	NONE

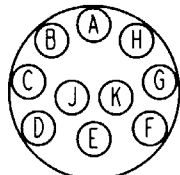
CONNECTOR, PLUG
 THREADED COUPLING
 EXTENDED PIN, CIRCUIT
 BOARD BUSSED CONTACTS
 ACT TYPE
 ENVELOPE

CP	MAIL CODE
DEUTSCH	ENGINEERED CONNECTING DEVICES
5733 W. Whittier Ave.	Hemet, California
A	59052*****P/S*
ONE SIZE	CODE 11739
	SHEET 1 OF 3

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nor used in whole or in part for any purpose other than to evaluate this drawing.

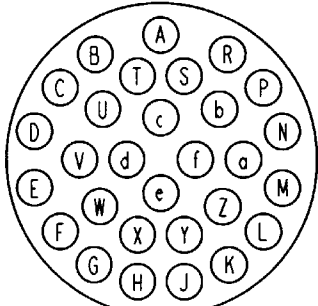
G 59052*****P/S*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
G	SEE SHEET 1	11 MAR 83	A.2.

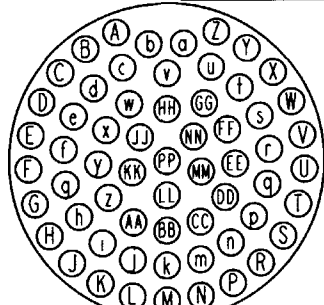


59052-13A98PN	
BUSS SIZE	CONTACT NUMBERS
2	A, B
BUSSED CONTACTS	C, F
SPARE	D, E

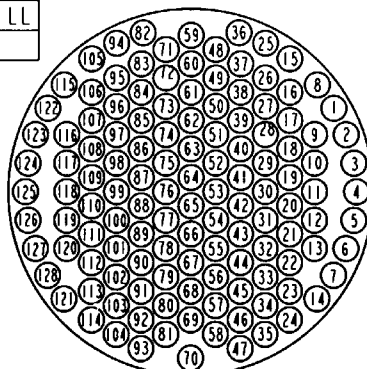
59052-13B98PN	
BUSS SIZE	CONTACT NUMBERS
2 BUSSED CONTACTS	E, H
3 BUSSED CONTACTS	F, G
SPARE	A, B & J



59052-25A29PN	
BUSS SIZE	CONTACT NUMBERS
15 BUSSED CONTACTS	A, B, C, D, E, F, G, H, T, U, V, W, X, c, d
14 BUSSED CONTACTS	J, K, L, M, N, P, R, S, Y, Z, a, b, e, f



59052-25-61PN	
BUSS SIZE	CONTACT NUMBERS
4	G, H, q, h
BUSSED CONTACTS	J, i, y, z
5	P, m, CC, MM
BUSSED CONTACTS	R, n, DD, EE
SPARE	S, T, U, V
5	W, X, Y, t
BUSSED CONTACTS	Z, u, HH, JJ
SPARE	a, v, w, x
5	p, q, r, s
BUSSED CONTACTS	FF, GG, NN, PP
SPARE	A, B, C, D, E
5	b, c, d, e, f
BUSSED CONTACTS	K, L, j, AA, KK
SPARE	M, N, k, BB, LL



59052-25-35PN	
BUSS SIZE	CONTACT NUMBERS
3	1, 2, 3
BUSSED CONTACTS	4, 5, 6
3	8, 9, 10
BUSSED CONTACTS	11, 12, 13
3	14, 24, 35
BUSSED CONTACTS	23, 34, 46
3	47, 57, 58
BUSSED CONTACTS	59, 60, 61
3	62, 63, 64
BUSSED CONTACTS	65, 66, 67
3	68, 69, 70
BUSSED CONTACTS	80, 81, 93
3	92, 103, 113
BUSSED CONTACTS	104, 114, 121
3	115, 116, 117
BUSSED CONTACTS	118, 119, 120
3	122, 123, 124
BUSSED CONTACTS	125, 126, 127
4	15, 16, 17, 18
BUSSED CONTACTS	19, 20, 21, 22
4	26, 27, 28, 29
BUSSED CONTACTS	30, 31, 32, 33
4	95, 96, 97, 98
BUSSED CONTACTS	99, 100, 101, 102
4	105, 106, 107, 108
BUSSED CONTACTS	109, 110, 111, 112
5	25, 37, 38, 39, 40
BUSSED CONTACTS	41, 42, 43, 44, 45
5	36, 48, 49, 50, 51
BUSSED CONTACTS	52, 53, 54, 55, 56
5	82, 71, 72, 73, 74
BUSSED CONTACTS	75, 76, 77, 78, 79
5	94, 83, 84, 85, 86
BUSSED CONTACTS	87, 88, 89, 90, 91
SPARE	7, 128

13. FOR COMPATIBILITY WITH SHYDROL USE THE 4048 MOD.
12. FINISHED CIRCUIT BOARD TO WITHSTAND 125° C. MAXIMUM CONTINUOUS OPERATING TEMPERATURE.
11. THE CIRCUIT TO CIRCUIT CROSSTALK REJECTION SHALL BE A MINIMUM OF 60 db AND NOMINAL 80 db.
10. THE HIGHEST FREQUENCY THAT THE UNITS WILL RECEIVE FROM AN AIRCRAFT SYSTEM IS 3200 HERTZ (FOR ANALOG CIRCUIT) AND 100 KBPS (FOR ARINC 429 SIGNAL).
9. APPLICABLE SPECIFICATIONS: IPC-600F, IPC 0-275, MIL-P-55110, MS22073, MIL-I-46058 AND MIL-STD-1560.
8. INSULATION RESISTANCE TO BE GREATER THAN 100 MEGOHMS WHEN TESTED AT 45 VOLTS DC $\pm 2\%$.
7. CIRCUIT BOARDS TO HAVE CONFORMAL COATING PER MIL-I-46058 AND WITHSTAND 100 VDC FOR TWO SECONDS.
6. THE TRACES AND SOCKETS TO CARRY CURRENT LEVELS UP TO THE THRESHOLD OF A MS22073-3 CIRCUIT BREAKER FOR CONTACTS SIZE 22. THRESHOLD OF A MS22073-5 CIRCUIT BREAKER FOR CONTACT SIZE 20. THRESHOLD OF A MS22073-7.5 CIRCUIT BREAKER FOR CONTACT SIZE 16.
5. THE ARRANGEMENTS ARE TO BE PER MIL-STD-1560.

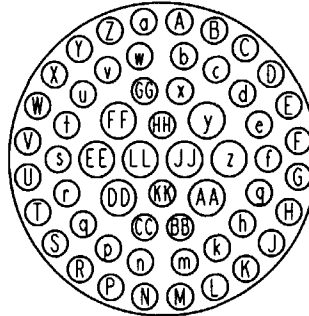
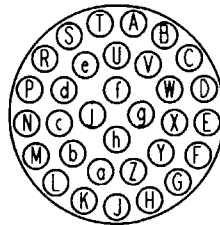
SIGNATURE & DATE	
DR	D. WHITACRE 6/10/97
CHK	B. J. H. 6/20/97
PC	D. WHITACRE 6/10/97
APPD	3/1/03
SCALE	NONE

CONNECTOR, PLUG
THREADED COUPLING
EXTENDED PIN, CIRCUIT
BOARD BUSSED CONTACTS
ACT TYPE
ENVELOPE

CP	
DEUTSCH	ENGINEERED CONNECTING DEVICES
5733 W. Whittier Ave.	Hemet, California
A	59052*****P/S*
SIZE	11133
SHEET	2 OF 3

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
G	SEE SHEET I	11MAR03	A-12



59052-19C32SN	
BUSS SIZE	CONTACT NUMBERS
3 BUSSED CONTACTS	D, E, F
4 BUSSED CONTACTS	U, V, W, X
	d, e, g, h
SPARE	A, B, C, G, H, J, K, L, M, N, P, R, S, T, Y, Z, a, b, c, f, j

59052-19D32SN	
BUSS SIZE	CONTACT NUMBERS
3 BUSSED CONTACTS	D, E, F
4 BUSSED CONTACTS	U, V, W, X
5 BUSSED CONTACTS	d, e, g, h, j
SPARE	A, B, C, G, H, J, K, L, M, N, P, R, S, T, Y, Z, a, b, c, f

59052-25D04SA	
BUSS SIZE	CONTACT NUMBERS
3 BUSSED CONTACTS	M, N, P
4 BUSSED CONTACTS	A, B, C, D
	DD, EE, FF, JJ
	F, G, J, L
SPARE	E, H, K, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, k, m, n, p, q, r, s, t, u, v, w, x, y, z, AA, BB, CC, GG, HH, KK, LL

59052-25E04SA	
BUSS SIZE	CONTACT NUMBERS
3 BUSSED CONTACTS	M, N, P
4 BUSSED CONTACTS	A, B, C, D
	DD, EE, FF, JJ
5 BUSSED CONTACTS	F, G, J, K, L
SPARE	E, H, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, k, m, n, p, q, r, s, t, u, v, w, x, y, z, AA, BB, CC, GG, HH, KK, LL

	SIGNATURE & DATE
DR	D. WHITACRE 3/10/2000
CHK	B. J. H. 6/20/97
PE	D. WHITACRE 3/10/2000
APPD	<i>J. L. Lunt</i> 3/11/03
SCALE	NONE

CONNECTOR, PLUG
THREADED COUPLING
EXTENDED PIN, CIRCUIT
BOARD BUSSED CONTACTS
ACT TYPE
ENVELOPE

CP	MATH CODE	
DEUTSCH ENGINEERED CONNECTING DEVICES  5733 W. Whittier Ave Hemet, California		
A DWG SIZE	59052*****P/S*	
	CODE 11139	SHEET 3 OF 3