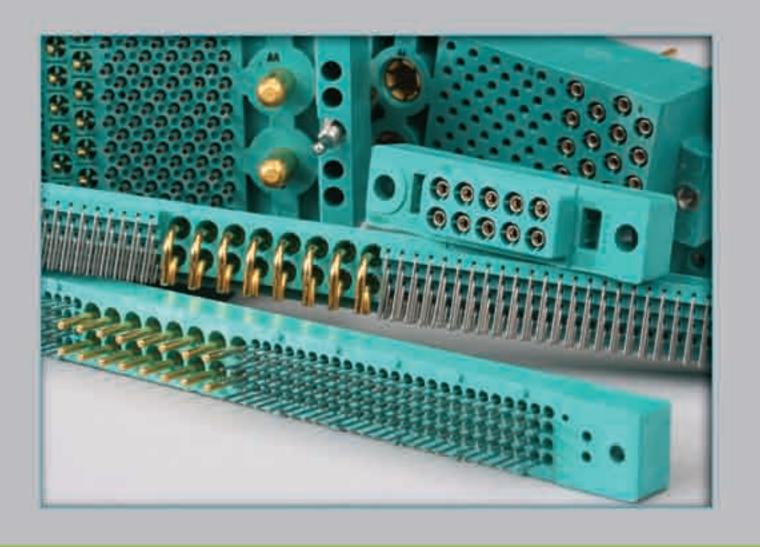
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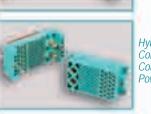
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Combination of Brush Contacts, Coax and Power Contacts



Power Strip Connector Series with cavities for size 16 or 12 power ontacts (or size 16 or coax contacts).



Hybrid Custom Connector with Brush ontacts and wer Contacts



The Bristle Brush contact has been proven in military avionics packages and meets the requirements of MIL-DTL-55302. It provides high density in tighter spacing, low mating/unmating forces, proven durability and long contact life. Applications for Amphenol® Connectors with Brush contacts include:

- Medical equipment
- IC chip testers
- Telecommunications
- Military and Commercial Aviation
- Military Ground Vehicles
- GPS systems

Other Similar Rectangular **Connectors from Amphenol**

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Ruggedized VME64x Interconnects

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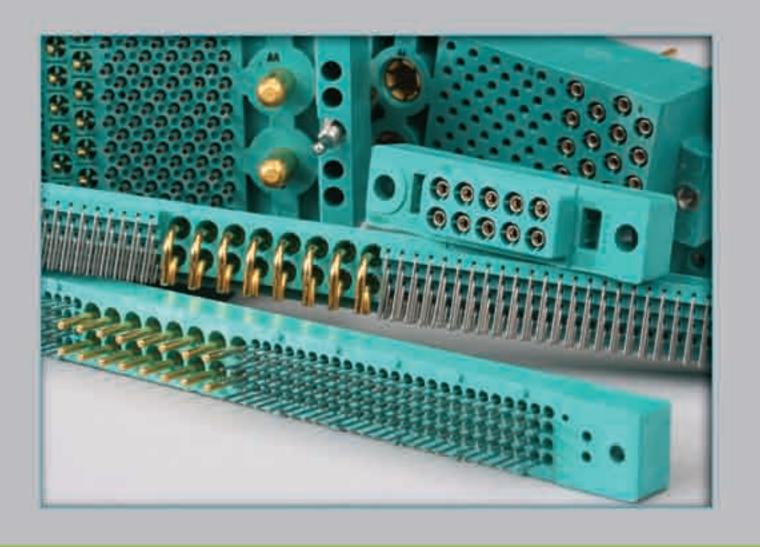


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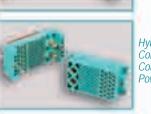
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Conventional Pin/Socket

- Machined surface finish on both parts
- Higher friction and wear
- Limited number of contact sites

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Amphenol Aerospace, located in upstate New York USA, has diverse manufacturing capability including state of the art CNC machining, die-casting, molding, impact and extruding, screw machining and plating.
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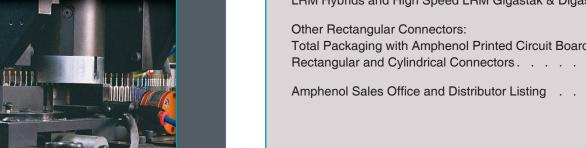
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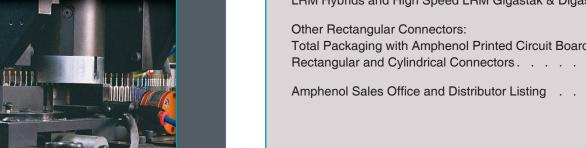
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Amphenol Low Mating Force Rectangular Connectors MIL-DTL-55302 (M55302/166 thru /172)

Amphenol's Low Mating Force Connectors are well known in the connector arena – with proven performance on the ground, in the air, and at sea. - In service for over 25 years, with over 50 million brush contacts fielded; and qualified for use on M1A2 Abrams, F-16 Falcon, F/A-22 Raptor, F-35 Lightning II, AIM-132 ASRAAM and many more applications.

Four Standard Body Styles



Key Connector Features

- 0.100 inch center to center, square grid contact spacing
- Application flexibility (parallel boards, perpendicular boards, wire to board, end to end boards, card extenders
- 2, 3 and 4 row contact arrangements with 10 to 100 contacts per row in one contact per row increments

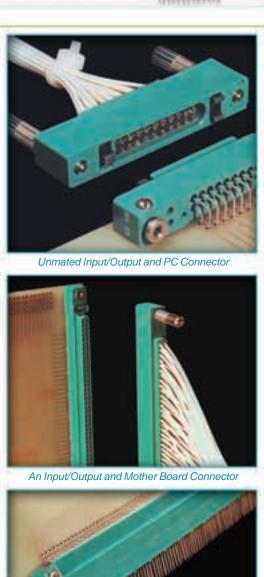
 • Military versions meet MIL-DTL-55302/166 through /172
- Termination versatility; straight & 90° PCB stud, wire wrap & crimp
- Options on termination lengths and plating
- Front release/front removable contacts in Mother Board, Daughter Board and PC version; rear release/rear removable crimp contacts (size 22D) or printed circuit board pins provided with Input/Output connectors
- Accessories available for latching and polarization
- Up to 256 keyed, mating polarizations available
- Hybrids available mix signal with power, RF or fiber optics
- Smaller sized connector designs with as few as 5 contacts per row
- RoHS compliant versions are available, consult Amphenol Aerospace for more information

Performance

- voltage rating: SL 70,000 ft.
- one and one-half ounce max. average contact engaging/ separating forces
- 7 million average contact resistance for row A contacts
- (Resistance will vary depending on the point of measurement and the length of the contact.)
- 3 ampere PCB contacts; 5 ampere wire wrap / crimp contacts
- –65°C to +125°C temperature rating
- 5 gigaohms minimum insulation resistance

- Connector Body Glass-filled thermoplastic molding material in accordance with MIL-M-24519 type GPT-15F and/or Grade B,
- Class 15 of MIL-P-46161 (UL94V-O)
- Polarization Keys Glass-filled acetal plastic molding material in accordance with MIL-P-46137
- Locking Screw/Mounting Bushing Corrosion resistant steel AISI 300 types passivated in accordance with QQ-P-35

- Holders Copper alloy in accordance with Federal Specification QQ-B-626 or SAE J463
- Wire Berryllium copper in accordance with Federal Specification
- Sleeves If applicable, stainless steel in accordance with AMS-5514 passivated in accordance with ASTM A967



Mated Mother Board and Daughter Board Connector

Low Mating Force Rectangular Connectors selecting the correct mated connection

STANDARD FOUR BODY STYLES **Mother Board Connector (MB)**

also can be referred to as a "Backplane" Connector

- Straight PCB stud or Wire wrap termination
- Mates with: Daughter board or I/O

Daughter Board Connector (DB)

also can be referred to as a "Module Connector"

- 90° PCB stud
- Mates with: Mother board or PC connectors

Printed Circuit Connector (PC)

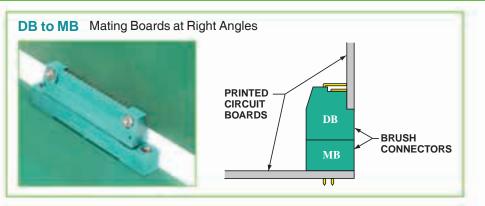
also can be referred to as a "Right Angle Mother board Connector or a "Card Extender Connector"

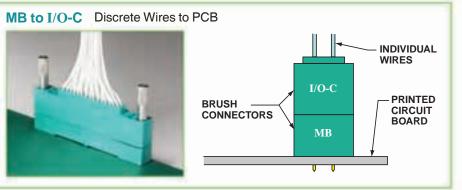
- 90° PCB stud
- Mates with: I/O or Daughter board connectors

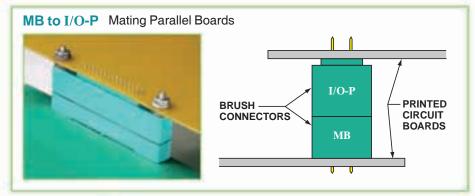
Input/Output Connector (I/O)

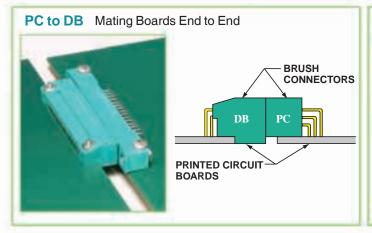
also can be referred to as a "Cable Connector"

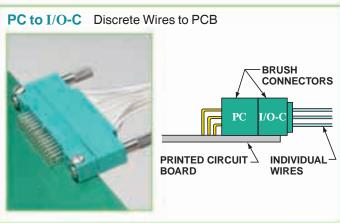
- I/O-C has rear removable crimp contacts
- I/O-P has round PCB stud solder contacts
- Mates with: Mother board or PC connectors









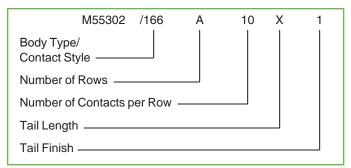


Low Mating Force Rectangular Connectors

how to order (military types)

MB. DB. PC Connectors **Military Part Number Ordering Procedure**

Example part number M55302/166A10X1 is shown as follows:



Body Type/Contact Style

- /166 designates MB-P (Mother Board, Printed Circuit Board Termination)
- /167 designates MB-W (Mother Board, Wire-wrap Contacts)
- /168 designates PC (Printed Circuit, 90° Printed Circuit Board Termination)
- /170 designates DB (Daughter Board, 90° Printed Circuit Board Termination)

Number of Rows

A - 2 Rows

B - 3 Rows

C - 4 Rows

Number of Contacts per Row

Contact counts per row range from 10 to 100

(Only 2 digits permitted in this space; for 100 contacts per row, use 00)

Tail Length

MB-P	MB-W**
(PCB Termination)*	(Wire-wrap)
W222 ±.025 X300 ±.025 Y145 ±.025 Z113 ±.025	Y700 ±.025 Z542 ±.025

DB*	PC*
X300 ±.025 Y150 ±.025 Z120 ±.025	Y150 +.035 025 Z095 +.035 025

- $^{\star}\,$ Reference "J" Dimension on all connector drawings in this catalog.
- ** For MB-W only: Reference "H" Dimension on connector drawing on page 8.

- 1 Tin lead per MIL-P-81728, 50 to 70% tin, .0001 min. thick
- over copper

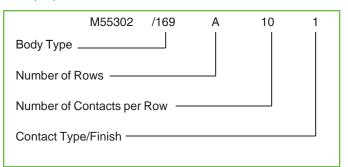
 2 Gold per MIL-G-45204, type II, grade C, class 00

 AB W/ over nickel per QQ-N-290



Military Part Number Ordering Procedure

Example part number M55302/169A101 is shown as follows:



Body Type

/169 designates IO (Input/Output)

(Contact type/finish is last digit of IO part number - see list of options below)

Number of Rows

A - 2 Rows

B - 3 Rows

C - 4 Rows

Number of Contacts per Row

Contact counts per row range from 10 to 100

(Only 2 digits permitted in this space; for 100 contacts per row, use 00)

Contact Type/Finish

- 1 Crimp contact Tin lead per MIL-P-81728, 50 to 70% tin, .0001 min. thick over copper
- 2 Crimp contact Gold per MIL-G-45204, type II, grade C, class 1 over copper
- 3 Connectors supplied less contacts
- 4 PCB contacts installed with .145 ±.025 stickout Tin lead per MIL-P-81728, 50 to 70% tin, .0001 min. thick over copper (Reference "J" Dimension on connector drawing on page 16).

To Order I O Contacts

(For use with connectors less contacts) M55302/171-1 suffix designates crimp well finish

Crimp well finish

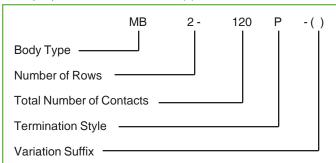
- 1 Crimp contact Tin lead per MIL-P-81728, 50 to 70% tin, .0001 min. thick over copper
- 2 Crimp contact Gold per MIL-G-45204, type II, grade C class 1 over copper

To order Accessories, see page 5.

Low Mating Force Rectangular Connectors how to order (commercial types)

MB, DB, I/O, PC Connectors **Proprietary Part Number Ordering Procedure**

Example part number MB2-120P- () is shown as follows:



Body Type

MB designates Mother Board DB designates Daughter Board

I/O designates Input/Output

PC designates Printed Circuit

Number of Rows

2, 3 or 4 rows

Total Number of Contacts

See Contact Arrangements, pages 8 and 9

Standard Termination Style

(Stickout values below apply to "J" dimension referenced on individual connector catalog pages).

MBX-XXXP	Straight PCB stud, .021 dia, .113 ±.025 stickout, Sn/Ni plate
MBX-XXXW	Solderless wrap, .025 sq., .507 ±.025 stickout, Sn/Ni plate
DBX-XXXP	90° PCB stud, .021 dia, .085 \pm .025 stickout, Sn/Ni plate
IOX-XXXC	Crimp, rear removable contact, size 22D wire well, Sn/Ni plate
IOX-XXXP	PCB stud, .021 dia, .145 \pm .025 stickout, Sn/Ni plate
PCX-XXXP	90° PCB stud, .021 dia., .095 +.035 025 stickout Sn/Ni plate

LEGEND:

Sn/Ni designates Tin over Nickel Au/Ni designates Gold over Nickel Au/Cu designates Gold over Copper



SnPb/Cu designates Tin-Lead over Copper

Variation Suffix

(Stickout values below apply to "J" dimension referenced on individual connector catalog pages.)

(700)	Gold plate in accordance with MIL-G-45204, type II, .000030 min. thick gold (.000050 for solderless wrap) over .000050 min. thick nickel (standard termination length)
(701)	Gold plate in accordance with MIL-G-45204, type II, .000050 min. thick gold over .00015 min. thick copper (standard termination length)
(702)	PCB stud stickout of .145, Sn/Ni plate, MB-P
(703)	Au/Ni [same as (700)], PCB stud stickout of .145, MB-P
(704)	Au/Cu [same as (701)], PCB stud stickout of .145, MB-P
(705)	90° PCB stud, .120 stickout. Sn/Ni plate, DB
(706)	Au/Ni [same as (700)], 90° PCB stud .120 stickout, DB
(707)	Au/Cu [same as (701)], 90° PCB .120 stickout, DB
(709)	PCB stud stickout of .300 DB (90°), .300 MB-P & .335 IO-P, Sn/Ni plate
(710)	Solderless wrap, .025 sq., .665 stickout, Sn/Ni plate, MB-W
(711)	Solderless wrap, .025 sq., .665 stickout, Au/Ni, [same as (700)], MB-W
(713)	PCB stud stickout of .060, Sn/Ni plate, IO-P
(714)	90° PCB stud stickout of .150, Sn/Ni plate, PC & DB
(715)	Solderless wrap, .025 sq., .665 stickout, Au/Cu [same as (701)], MB-W
(716)	90° PCB stud stickout of .085 matte tin, DB
(717)	90° PCB stud stickout of .095 matte tin, PC
(718)	90° PCB stud stickout of .120 matte tin, DB
(719)	PCB stud stickout of .300 MB-P & .335 IO-P, matte tin
(720)	PCB stud stickout of .060 matte tin, IO-P
(721)	PCB stud stickout of .500, Sn/Ni plate, IO-P
(722)	PCB stud stickout of .356 matte tin, MB-P
(723)	PCB stud stickout of .192, Sn/Ni plate, MB-P
(724)	90° PCB stud stickout of .095, RTV potted rear, Sn/Ni plate, PC
(725)	90° PCB stud stickout of .120, RTV potted rear, Sn/Ni plate, DB
(726)	90° PCB stud stickout of .150, RTV potted rear, Sn/Ni plate, PC & DB
(727)	PCB stud stickout of .145, RTV potted rear, Sn/Ni plate, MB-P
(728)	PCB stud stickout of .145, Au/Ni, [same as (700)], RTV potted rear, MB-P
(729)	90° PCB stud stickout of .120, Au/Ni, [same as (700)], RTV potted rear, DB
(730)	90° PCB stud stickout of .150, Au/Ni, [same as (700) above], PC and DB
(731)	PCB stud stickout of .145, matte tin, MB-P

Variation Suffixes continued on next page.

Low Mating Force Rectangular Connectors how to order (commercial types)/accessories

MB, DB, I/O, PC Connectors **Proprietary Part Number Ordering Procedure**

Variation Suffix, cont.

(732)	PCB stud stickout of .300 DB (90°), .300 MB-P and .335 IO-P, Au/Cu [same as (701)],
(733)	PCB stud stickout of .421, matte tin, MB-P
(734)	Solderless wrap .025 sq.; .665 stickout, Au/Ni, [same as (700)], RTV potted rear, MB-W
(735)	RTV potted rear, standard termination length, Au/Ni, [same as (700)]
(736)	RTV potted rear, standard termination length, Sn/Ni [use (724) for PC]
(737)	PCB stud stickout of .300 DB (90°), .300 MB-P and .335 IO-P, Au/Ni, [same as (700)], RTV potted rear
(738)	PCB stud stickout of .192 SnPb/Cu (Mil-Spec), MB-P
(739)	PCB stud stickout of .300 DB (90°), .300 MB-P and .335 IO-P;, RTV potted rear, Sn/Ni
(740)	Solderless wrap .025 sq.; .665 stickout, Sn/Ni, RTV potted rear, MB-W
(741)	Solderless wrap .025 sq.; .280 stickout, Au/Ni, [same as (700)], MB-W
(742)	PCB .145, Au/Ni, [same as (700)], epoxy potted rear, MB-P
(743)	90° PCB .120, Au/Ni, [same as (700)], epoxy potted rear, DB
(744)	90° PCB .120, Au/Ni, [same as (700)], (MIL-Spec), epoxy potted rear, DB
(746)	90° PCB .120, SnPb/Cu, (MIL-Spec), epoxy potted rear, DB
(747)	PCB stud stickout of .200, Sn/Ni, IO-P
(748)	PCB stud stickout of .145, Sn/Ni, epoxy potted rear, MB-P
(749)	PCB, epoxy potted rear, standard termination length, Sn/Ni

(750)	PCB stud stickout of .172 termination, Au/Ni, [same as (700)], RTV potted rear, MB-P
(751)	90° PCB stud stickout of .150, Sn/Ni, epoxy potted rear, PC
(752)	Au/Ni, epoxy potted rear, standard termination length
(753)	Solderless wrap .025 sq.; .665 stickout, Au/Ni, [same as (700)], epoxy potted rear, MB-W
(754)	PCB stud stickout of .172 termination, SnPb/Cu (MIL-Spec), MB-P
(757)	PCB stud, .391 stickout, matte tin, MB-P
(758)	PCB stud, .172 stickout, Au/Ni, [same as (700)], epoxy potted rear, MB-P
(760)	PCB stud, .192 stickout, Au/Ni (Mil-Spec), MB-P
(761)	90° PCB stud, .120 stickout, Sn/Ni, epoxy potted rear, DB
(762)	PCB stud, .145 stickout, Au/Ni (Mil-Spec), epoxy potted rear, MB-P
(763)	PCB stud, .145 stickout, SnPb/Cu (Mil-Spec), epoxy potted rear, MB-P
(764)	90° PCB stud, .150 stickout, SnPb/Cu (Mil-Spec), epoxy potted rear, DB & PC
(765)	PCB stud, stickout of .300 DB (90°), .300 MB-P, SnPb/Cu (Mil-Spec), epoxy potted rear
(766)	90° PCB stud, .120 stickout, Au/Ni (Mil-Spec), epoxy potted rear, DB
(767)	PCB stud, .192 stickout, Au/Ni (Mil-Spec), epoxy potted rear, MB-P
(768)	PCB stud, .172 stickout, Au/Ni (Mil-Spec), MB-P
(769)	90° PCB stud, .200 stickout, Au/Ni (Mil-Spec), DB
(770)	90° PCB stud, .260 stickout, Au/Ni (Mil-Spec), DB
(773)	90° PCB stud, .150 stickout, Au/Ni (Mil-Spec), RTV potted rear, PC & DB

Accessories

Amphenol® Low Mating Force Connectors are shipped less accessory items. Accessories may be ordered by either military or proprietary part numbers shown below:

Accessory Item	Series	Military Part Number	Proprietary Part Number	Qty. Required
Polarization Keys	MB, DB, IO, PC	M55302/78-02	10-285422-2	4*
Locking/Mounting Bushing	MB	M55302/172-01	10-411196-3	2
Alternate Length Bushing (Longer)	MB	M55302/172-02	10-411196-5	2
Locking Bushing	PC	M55302/172-05	10-411196-4	2
Locking Screw, Plain	IO	M55302/172-04	10-502599	2
Locking Screw, Slotted	IO	-	10-502599-1	2
Locking Screw, Slotted (Low Profile)	IO	M55302/172-03	10-502599-2	2
Test Probe Kit	MB, DB, IO, PC	-	11-10400-22	1**

See pages 24-29 for more detailed information on these accessory items and how they are assembled into connectors.

^{* 4} Keys required per connector half, if used

^{**} One kit per connector gender is recommended

Low Mating Force Rectangular Connectors

connector row and cavity identification, contact arrangements

BRUSH CONNECTOR ROW AND CAVITY IDENTIFICATION

Contact rows and cavities are identified with molded-in letters and numbers respectively and, depending on the connector style, are located either on the front, rear or both faces of the connector. See illustration at right.

Note: The brand name of Bendix may appear molded-in on connectors. As manufacturing molds are remade, the correct Amphenol name will replace the former Bendix name.

As shown in the second illustration at right, row identification is always at the radius end and begins with Row "A". Contact cavity identification always starts at radius end and begins with cavity #6 and then every fifth cavity thereafter, except for arrangements consisting of 10 contacts per row, which lack numerals. Up to every 9 contact locations at the high numeral end of the contact row will not be identified.

Mother Board and PC Connectors

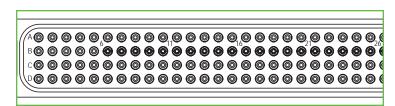
Contact rows are identified on the <u>front</u> and <u>rear</u> faces. Contact cavities are identified on the rear face.

Daughter Board Connectors

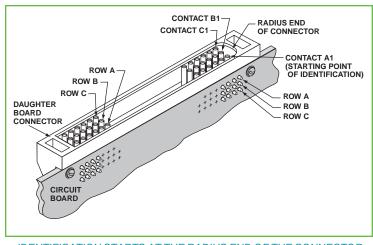
Contact rows and cavities are identified on the front face.

Input/Output Connectors

Contact rows and cavities are identified on the rear face.



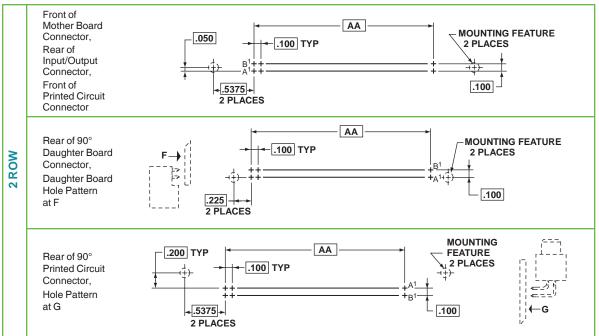
CONTACT ROWS AND CAVITIES ARE IDENTIFIED WITH MOLDED-IN LETTERS AND NUMBERS (FRONT FACE OF DAUGHTER BOARD SHOWN)



 ${\it IDENTIFICATION\,STARTS\,AT\,THE\,RADIUS\,END\,OF\,THE\,CONNECTOR}$

Contacts

Contacts are supplied with MB, DB, IO and PC Connector Series assemblies as ordered.



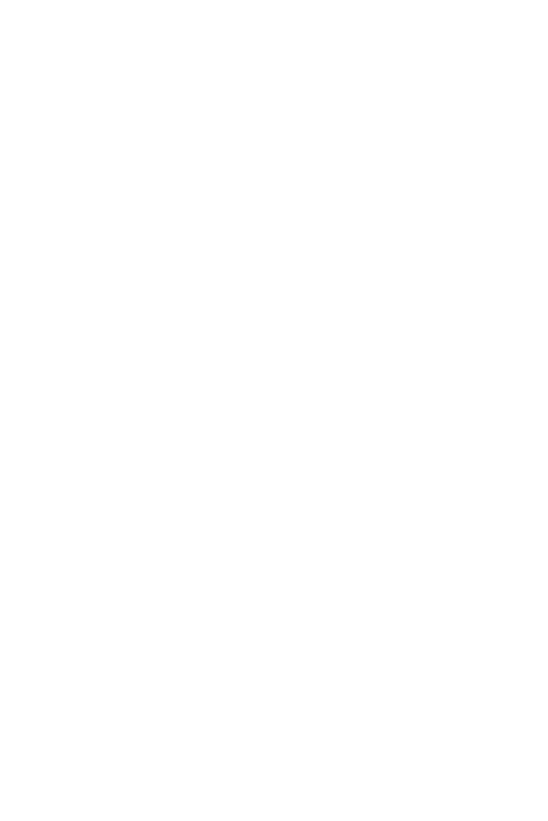
Designates Basic Dimension.

Consult Amphenol drawing for solderless wrap contact fixturing (datum) hole locations to facilitate connector alignment.

2 ROW 10 per Row

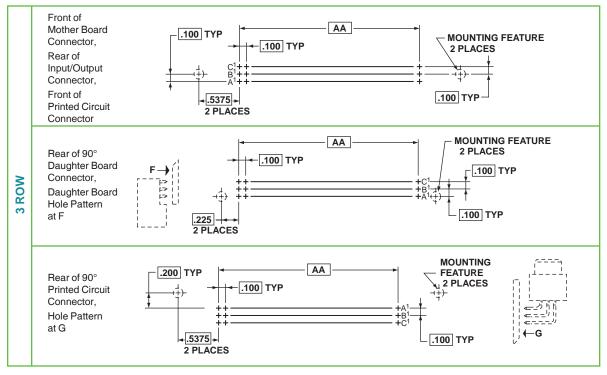
Total Contacts	AA	
20	.900	
30	1.400	
40	1.900	
50	2.400	
60	2.900	
70	3.400	
80	3.900	
90	4.400	
100	4.900	
110	5.400	
120	5.900	
130	6.400	
140	6.900	
150	7.400	
160	7.900	
170	8.400	
180	8.900	
190	9.400	
200	9.900	



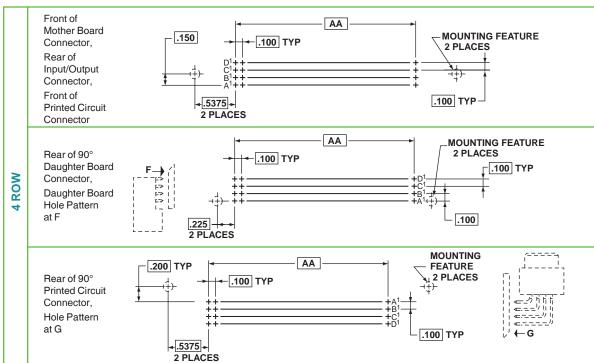


Low Mating Force Rectangular Connectors

contact arrangements, cont.



3 ROW 10 per Row				
Total Contacts	AA			
30	.900	Ī		
45	1.400			
60	1.900			
75	2.400			
90	2.900			
105	3.400			
120	3.900			
135	4.400			
150	4.900			
165	5.400			
180	5.900			
195	6.400			
210	6.900			
225	7.400			
240	7.900			
255	8.400			
270	8.900			
285	9.400			



4 ROW 10 Per Row

Total

Contacts

300 9.900

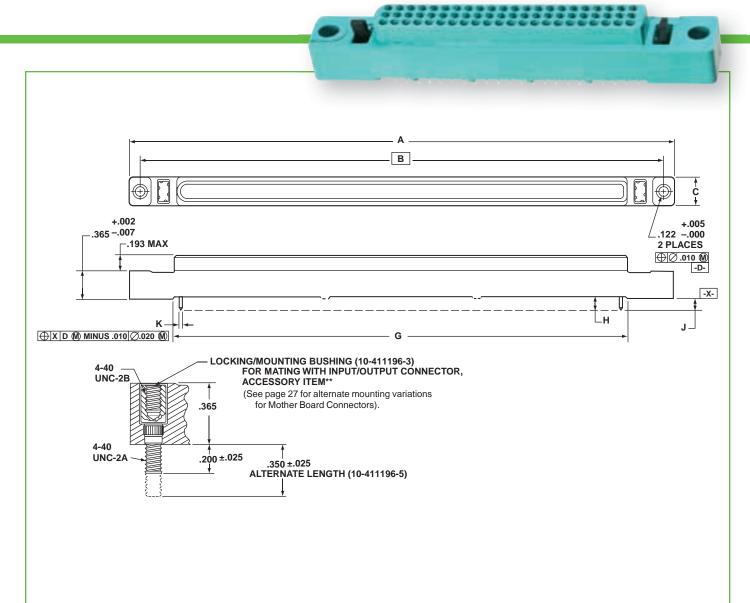
40	.900
60	1.400
80	1.900
100	2.400
120	2.900
140	3.400
160	3.900
180	4.400
200	4.900
220	5.400
240	5.900
260	6.400
280	6.900
300	7.400
320	7.900
340	8.400
360	8.900
380	9.400
400	9.900

Designates Basic Dimension.

Consult Amphenol drawing for solderless wrap contact fixturing (datum)

hole locations to facilitate connector alignment.

Low Mating Force mother board connector



MATES WITH DB AND IO SERIES CONNECTORS

When mating with DB connector, a total of .035 inch minimum radial pilot is available for connector body alignment.

All dimensions for reference only.

Polarization keys are not supplied as part of MB Connector Series assemblies. See Accessories How to Order, page 5 and further description, page 24.

** Locking/mounting bushings are not supplied as part of MB Connector Series assemblies. See Accessories How to Order, page 5 and further description on page 27.

Designates Basic Dimension

Consult Amphenol drawing for solderless wrap contact fixturing (datum) hole locations to facilitate connector alignment.

	Contact Data						
Description	Termination Style Letter	H ±.020	J ±.020	K ±.002			
Round PCB	Р	.148	.113	.021 Dia.			
Stud Solder	P-(702)	.180	.145	.021 Dia.			
Termination	P-(709)	.335	.300	.021 Dia.			
Square Solderless Wrap Termination	W	.542	.507	.025 Sq.			
	W-(710)	.700	.665	.025 Sq.			

NOTE: Other variations available - see pages 4 and 5, or consult Amphenol Aerospace.

Low Mating Force mother board connector 2 row contact arrangements

Number of	MB	А	В	С	G
Contacts	Number*	Max.		Max.	Min.
020	MB2-020(*)	2.295	1.975	.390	1.040
022	MB2-022(*)	2.395	2.075	.390	1.140
024	MB2-024(*)	2.495	2.175	.390	1.240
026	MB2-026(*)	2.595	2.275	.390	1.340
028	MB2-028(*)	2.695	2.375	.390	1.440
030	MB2-030(*)	2.795	2.475	.390	1.540
032	MB2-032(*)	2.895	2.575	.390	1.640
034	MB2-034(*)	2.995	2.675	.390	1.740
036	MB2-036(*)	3.095	2.775	.390	1.840
038	MB2-038(*)	3.195	2.875	.390	1.940
040	MB2-040(*)	3.295	2.975	.390	2.040
042	MB2-042(*)	3.395	3.075	.390	2.140
044	MB2-044(*)	3.495	3.175	.390	2.240
046	MB2-046(*)	3.595	3.275	.390	2.340
048	MB2-048(*)	3.695	3.375	.390	2.440
050	MB2-050(*)	3.795	3.475	.390	2.540
052	MB2-052(*)	3.895	3.575	.390	2.640
054	MB2-054(*)	3.995	3.675	.390	2.740
056	MB2-056(*)	4.095	3.775	.390	2.840
058	MB2-058(*)	4.195	3.875	.390	2.940
060	MB2-060(*)	4.295	3.975	.390	3.040
062	MB2-062(*)	4.395	4.075	.390	3.140
064	MB2-064(*)	4.495	4.175	.390	3.240
066	MB2-066(*)	4.595	4.275	.390	3.340
068	MB2-068(*)	4.695	4.375	.390	3.440
070	MB2-070(*)	4.795	4.475	.390	3.540
072	MB2-072(*)	4.895	4.575	.390	3.640
074	MB2-074(*)	4.995	4.675	.390	3.740
076	MB2-076(*)	5.095	4.775	.390	3.840
078	MB2-078(*)	5.195	4.875	.390	3.940
080	MB2-080(*)	5.295	4.975	.390	4.040
082	MB2-082(*)	5.395	5.075	.390	4.140
084	MB2-084(*)	5.495	5.175	.390	4.240
086	MB2-086(*)	5.595	5.275	.390	4.340
088	MB2-088(*)	5.695	5.375	.390	4.440
090	MB2-090(*)	5.795	5.475	.390	4.540
092	MB2-092(*)	5.895	5.575	.390	4.640
094	MB2-094(*)	5.995	5.675	.390	4.740
096	MB2-096(*)	6.095	5.775	.390	4.840
098	MB2-098(*)	6.195	5.875	.390	4.940
100	MB2-100(*)	6.295	5.975	.390	5.040
102	MB2-102(*)	6.395	6.075	.390	5.140
104	MB2-104(*)	6.495	6.175	.390	5.240
106	MB2-106(*)	6.595	6.275	.390	5.340
108	MB2-108(*)	6.695	6.375	.390	5.440
110	MB2-110(*)	6.795	6.475	.390	5.540

Number of Contacts	MB Number*	A Max.	В	C Max.	G Min.
112	MB2-112(*)	6.895	6.575	.390	5.640
114	MB2-114(*)	6.995	6.675	.390	5.740
116	MB2-116(*)	7.095	6.775	.390	5.840
118	MB2-118(*)	7.195	6.875	.390	5.940
120	MB2-120(*)	7.100	6.975	.390	6.040
122	MB2-122(*)	7.395	7.075	.390	6.140
124	MB2-124(*)	7.495	7.175	.390	6.240
126	MB2-126(*)	7.595	7.175	.390	6.340
128	MB2-128(*)	7.695	7.375	.390	6.440
130	MB2-130(*)	7.795	7.475	.390	6.540
132	MB2-130(*)	7.795	7.575	.390	6.640
134	MB2-134(*)	7.995	7.675	.390	6.740
136	` /	8.095			6.840
	MB2-136(*)		7.775	.390	
138	MB2-138(*)	8.195	7.875	.390	6.940
140	MB2-140(*)	8.295	7.975	.390	7.040
142	MB2-142(*)	8.395	8.075	.390	7.140
144	MB2-144(*)	8.495	8.175	.390	7.240
146	MB2-146(*)	8.595	8.275	.390	7.340
148	MB2-148(*)	8.695	8.375	.390	7.440
150	MB2-150(*)	8.795	8.475	.390	7.540
152	MB2-152(*)	8.895	8.575	.390	7.640
154	MB2-154(*)	8.995	8.675	.390	7.740
156	MB2-156(*)	9.095	8.775	.390	7.840
158	MB2-158(*)	9.195	8.875	.390	7.940
160	MB2-160(*)	9.295	8.975	.390	8.040
162	MB2-162(*)	9.395	9.075	.390	8.140
164	MB2-164(*)	9.495	9.175	.390	8.240
166	MB2-166(*)	9.595	9.275	.390	8.340
168	MB2-168(*)	9.695	9.375	.390	8.440
170	MB2-170(*)	9.795	9.475	.390	8.540
172	MB2-172(*)	9.895	9.575	.390	8.640
174	MB2-174(*)	9.995	9.675	.390	8.740
176	MB2-176(*)	10.095	9.775	.390	8.840
178	MB2-178(*)	10.195	9.875	.390	8.940
180	MB2-180(*)	10.295	9.975	.390	9.040
182	MB2-182(*)	10.395	10.075	.390	9.140
184	MB2-184(*)	10.495	10.175	.390	9.240
186	MB2-186(*)	10.595	10.275	.390	9.340
188	MB2-188(*)	10.695	10.375	.390	9.440
190	MB2-190(*)	10.795	10.475	.390	9.540
192	MB2-192(*)	10.895	10.575	.390	9.640
194	MB2-194(*)	10.995	10.675	.390	9.740
196	MB2-196(*)	11.095	10.775	.390	9.840
198	MB2-198(*)	11.195	10.875	.390	9.940
200	MB2-200(*)	11.295	10.975	.390	10.040

^{*}See How to Order, pages 3, 4 and 5.

Low Mating Force mother board connector 3 row contact arrangements

Number of Contacts	MB Number*	A Max.	В	C Max.	G Min.
030	MB3-030(*)	2.295	1.975	.490	1.040
033	MB3-033(*)	2.395	2.075	.490	1.140
036	MB3-036(*)	2.495	2.175	.490	1.240
039	MB3-039(*)	2.595	2.275	.490	1.340
042	MB3-042(*)	2.695	2.375	.490	1.440
045	MB3-045(*)	2.795	2.475	.490	1.540
048	MB3-048(*)	2.895	2.575	.490	1.640
051	MB3-051(*)	2.995	2.675	.490	1.740
054	MB3-054(*)	3.095	2.775	.490	1.840
057	MB3-057(*)	3.195	2.875	.490	1.940
060	MB3-060(*)	3.295	2.975	.490	2.040
063	MB3-063(*)	3.395	3.075	.490	2.140
066	MB3-066(*)	3.495	3.175	.490	2.240
069	MB3-069(*)	3.595	3.275	.490	2.340
072	MB3-072(*)	3.695	3.375	.490	2.44
075	MB3-075(*)	3.795	3.475	.490	2.54
078	MB3-078(*)	3.895	3.575	.490	2.64
081	MB3-081(*)	3.995	3.675	.490	2.74
084	MB3-084(*)	4.095	3.775	.490	2.840
087	MB3-087(*)	4.195	3.875	.490	2.94
090	MB3-090(*)	4.295	3.975	.490	3.04
093	MB3-093(*)	4.395	4.075	.490	3.14
096	MB3-096(*)	4.495	4.175	.490	3.24
099	MB3-099(*)	4.595	4.275	.490	3.34
102	MB3-102(*)	4.695	4.375	.490	3.44
105	MB3-105(*)	4.795	4.475	.490	3.54
108	MB3-108(*)	4.895	4.575	.490	3.64
111	MB3-111(*)	4.995	4.675	.490	3.74
114	MB3-114(*)	5.095	4.775	.490	3.84
117	MB3-117(*)	5.195	4.875	.490	3.940
120	MB3-120(*)	5.295	4.975	.490	4.04
123	MB3-123(*)	5.395	5.075	.490	4.14
126	MB3-126(*)	5.495	5.175	.490	4.24
129	MB3-129(*)	5.595	5.275	.490	4.34
132	MB3-132(*)	5.695	5.375	.490	4.44
135	MB3-135(*)	5.795	5.475	.490	4.54
138	MB3-138(*)	5.895	5.575	.490	4.64
141	MB3-141(*)	5.995	5.675	.490	4.74
144	MB3-144(*)	6.095	5.775	.490	4.84
147	MB3-147(*)	6.195	5.875	.490	4.94
150	MB3-150(*)	6.295	5.975	.490	5.04
153	MB3-153(*)	6.395		.490	5.14
156	MB3-156(*)	6.495	6.075	.490	
159	MB3-150()	6.595	6.175 6.275	.490	5.240
162	MB3-162(*)	6.695	6.275	.490	5.440
102	IVIDO-102()	0.090	0.373	.490	0.440

Number of Contacts	MB Number*	A Max.	В	C Max.	G Min.
168	MB3-168(*)	6.895	6.575	.490	5.640
171	MB3-171(*)	6.995	6.675	.490	5.740
174	MB3-174(*)	7.095	6.775	.490	5.840
177	MB3-177(*)	7.195	6.875	.490	5.940
180	MB3-180(*)	7.195	6.975	.490	6.040
183	MB3-183(*)	7.395	7.075	.490	6.140
186	MB3-186(*)	7.495	7.175	.490	6.240
189	MB3-189(*)	7.595	7.175	.490	6.340
192	MB3-192(*)	7.695	7.375	.490	6.440
195	MB3-192(*)	7.795	7.475	.490	6.540
198	MB3-193(*)	7.795	7.575	.490	6.640
201	MB3-196(*)	7.995	7.675	.490	6.740
201	MB3-201(*)	8.095	7.775	.490	6.840
207	MB3-207(*)	8.195	7.775	.490	6.940
210	` /				
	MB3-210(*)	8.295	7.975	.490	7.040
213	MB3-213(*)	8.395	8.075	.490	7.140
216	MB3-216(*)	8.495	8.175	.490	7.240
219	MB3-219(*)	8.595	8.275	.490	7.340
222	MB3-222(*)	8.695	8.375	.490	7.440
225	MB3-225(*)	8.795	8.475	.490	7.540
228	MB3-228(*)	8.895	8.575	.490	7.640
231	MB3-231(*)	8.995	8.675	.490	7.740
234	MB3-234(*)	9.095	8.775	.490	7.840
237	MB3-237(*)	9.195	8.875	.490	7.940
240	MB3-240(*)	9.295	8.975	.490	8.040
243	MB3-243(*)	9.395	9.075	.490	8.140
246	MB3-246(*)	9.495	9.175	.490	8.240
249	MB3-249(*)	9.595	9.275	.490	8.340
252	MB3-252(*)	9.695	9.375	.490	8.440
255	MB3-255(*)	9.795	9.475	.490	8.540
258	MB3-258(*)	9.895	9.575	.490	8.640
261	MB3-261(*)	9.995	9.675	.490	8.740
264	MB3-264(*)	10.095	9.775	.490	8.840
267	MB3-267(*)	10.195	9.875	.490	8.940
270	MB3-270(*)	10.295	9.975	.490	9.040
273	MB3-273(*)	10.395	10.075	.490	9.140
276	MB3-276(*)	10.495	10.175	.490	9.240
279	MB3-279(*)	10.595	10.275	.490	9.340
282	MB3-282(*)	10.695	10.375	.490	9.440
285	MB3-285(*)	10.795	10.475	.490	9.540
288	MB3-288(*)	10.895	10.575	.490	9.640
291	MB3-291(*)	10.995	10.675	.490	9.740
294	MB3-294(*)	11.095	10.775	.490	9.840
297	MB3-297(*)	11.195	10.875	.490	9.940
300	MB3-300(*)	11.295	10.975	.490	10.040

^{*}See How to Order, pages 3, 4 and 5.

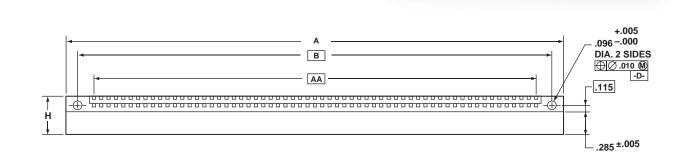
Low Mating Force mother board connector 4 row contact arrangements

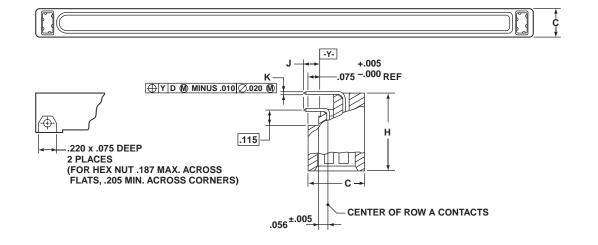
Number of Contacts	MB Number*	A Max.	В	C Max.	G Min.
040	MB4-040(*)	2.295	1.975	.590	1.040
044	MB4-044(*)	2.395	2.075	.590	1.140
048	MB4-048(*)	2.495	2.175	.590	1.240
052	MB4-052(*)	2.595	2.275	.590	1.340
056	MB4-056(*)	2.695	2.375	.590	1.440
060	MB4-060(*)	2.795	2.475	.590	1.540
064	MB4-064(*)	2.895	2.575	.590	1.640
068	MB4-068(*)	2.995	2.675	.590	1.740
072	MB4-072(*)	3.095	2.775	.590	1.840
076	MB4-076(*)	3.195	2.875	.590	1.940
080	MB4-080(*)	3.295	2.975	.590	2.040
084	MB4-084(*)	3.395	3.075	.590	2.140
088	MB4-088(*)	3.495	3.175	.590	2.240
092	MB4-092(*)	3.595	3.275	.590	2.340
096	MB4-096(*)	3.695	3.375	.590	2.440
100	MB4-100(*)	3.795	3.475	.590	2.540
104	MB4-104(*)	3.895	3.575	.590	2.640
108	MB4-108(*)	3.995	3.675	.590	2.740
112	MB4-112(*)	4.095	3.775	.590	2.840
116	MB4-116(*)	4.195	3.875	.590	2.940
120	MB4-120(*)	4.295	3.975	.590	3.040
124	MB4-124(*)	4.395	4.075	.590	3.140
128	MB4-128(*)	4.495	4.175	.590	3.240
132	MB4-132(*)	4.595	4.275	.590	3.340
136	MB4-136(*)	4.695	4.375	.590	3.440
140	MB4-140(*)	4.795	4.475	.590	3.540
144	MB4-144(*)	4.895	4.575	.590	3.640
148	MB4-148(*)	4.995	4.675	.590	3.740
152	MB4-152(*)	5.095	4.775	.590	3.840
156	MB4-156(*)	5.195	4.875	.590	3.940
160	MB4-160(*)	5.295	4.975	.590	4.040
164	MB4-164(*)	5.395	5.075	.590	4.140
168	MB4-168(*)	5.495	5.175	.590	4.240
172	MB4-172(*)	5.595	5.275	.590	4.340
176	MB4-176(*)	5.695	5.375	.590	4.440
180	MB4-180(*)	5.795	5.475	.590	4.540
184	MB4-184(*)	5.895	5.575	.590	4.640
188	MB4-188(*)	5.995	5.675	.590	4.740
192	MB4-192(*)	6.095	5.775	.590	4.840
196	MB4-196(*)	6.195	5.875	.590	4.940
200	MB4-200(*)	6.295	5.975	.590	5.040
204	MB4-204(*)	6.395	6.075	.590	5.140
208	MB4-208(*)	6.495	6.175	.590	5.240
212	MB4-212(*)	6.595	6.275	.590	5.340
216	MB4-216(*)	6.695	6.375	.590	5.440
220	MB4-220(*)	6.795	6.475	.590	5.540

Number of Contacts	MB Number*	A Max.	В	C Max.	G Min.
224	MB4-224(*)	6.895	6.575	.590	5.640
228	MB4-228(*)	6.995	6.675	.590	5.740
232	MB4-232(*)	7.095	6.775	.590	5.840
236	MB4-236(*)	7.195	6.875	.590	5.940
240	MB4-240(*)	7.100	6.975	.590	6.040
244	MB4-244(*)	7.395	7.075	.590	6.140
248	MB4-248(*)	7.495	7.175	.590	6.240
252	MB4-252(*)	7.595	7.175	.590	6.340
256	MB4-256(*)	7.695	7.375	.590	6.440
260	MB4-260(*)	7.795	7.475	.590	6.540
264	MB4-264(*)	7.795	7.575	.590	6.640
	` ,			.590	
268 272	MB4-268(*)	7.995	7.675		6.740
	MB4-272(*)	8.095	7.775	.590	6.840
276	MB4-276(*)	8.195	7.875	.590	6.940
280	MB4-280(*)	8.295	7.975	.590	7.040
284	MB4-284(*)	8.395	8.075	.590	7.140
288	MB4-288(*)	8.495	8.175	.590	7.240
292	MB4-292(*)	8.595	8.275	.590	7.340
296	MB4-296(*)	8.695	8.375	.590	7.440
300	MB4-300(*)	8.795	8.475	.590	7.540
304	MB4-304(*)	8.895	8.575	.590	7.640
308	MB4-308(*)	8.995	8.675	.590	7.740
312	MB4-312(*)	9.095	8.775	.590	7.840
316	MB4-316(*)	9.195	8.875	.590	7.940
320	MB4-320(*)	9.295	8.975	.590	8.040
324	MB4-324(*)	9.395	9.075	.590	8.140
328	MB4-328(*)	9.495	9.175	.590	8.240
332	MB4-332(*)	9.595	9.275	.590	8.340
336	MB4-336(*)	9.695	9.375	.590	8.440
340	MB4-340(*)	9.795	9.475	.590	8.540
344	MB4-344(*)	9.895	9.575	.590	8.640
348	MB4-348(*)	9.995	9.675	.590	8.740
352	MB4-352(*)	10.095	9.775	.590	8.840
356	MB4-356(*)	10.195	9.875	.590	8.940
360	MB4-360(*)	10.295	9.975	.590	9.040
364	MB4-364(*)	10.395	10.075	.590	9.140
368	MB4-368(*)	10.495	10.175	.590	9.240
372	MB4-372(*)	10.595	10.275	.590	9.340
376	MB4-376(*)	10.695	10.375	.590	9.440
380	MB4-380(*)	10.795	10.475	.590	9.540
384	MB4-384(*)	10.895	10.575	.590	9.640
388	MB4-388(*)	10.995	10.675	.590	9.740
392	MB4-392(*)	11.095	10.775	.590	9.840
396	MB4-396(*)	11.195	10.875	.590	9.940
400	MB4-400(*)	11.295	10.975	.590	10.040

^{*}See How to Order, pages 3, 4 and 5.

Low Mating Force daughter board connector





MATES WITH MB AND PC SERIES CONNECTORS

When mating with MB or PC connector, a total of .035 inch minimum radial pilot is available for connector body alignment.

All dimensions for reference only.

Polarization keys are not supplied as part of DB Connector Series assemblies. See Accessories How to Order, page 5 and further description, page 24.

Designates Basic Dimension

	Conta	ct Data		
Description	Termination Style Letter	Arrangement Row	J ±.020	K ±.002
	Р	Α	.085	.021 Dia.
	Р	В	.085	.021 Dia.
	Р	С	.085	.021 Dia.
	Р	D	.085	.021 Dia.
Round PCB	P-(705)	Α	.120	.021 Dia.
Stud, 90°	P-(705)	В	.120	.021 Dia.
Solder	P-(705)	С	.120	.021 Dia.
Termination	P-(705)	D	.120	.021 Dia.
	P-(709)	Α	.300	.021 Dia.
	P-(709)	В	.300	.021 Dia.
	P-(709)	С	.300	.021 Dia.
	P-(709)	D	.300	.021 Dia.

NOTE: Other variations available - see pages 4 and 5, or consult Amphenol Aerospace.

Low Mating Force daughter board connector 2 row contact arrangements

Contacts Number* Max. Max. Max. Max. 020 DB2-020P 1.680 1.350 .375 .545 .900 022 DB2-022P 1.780 1.450 .375 .545 1.000 024 DB2-026P 1.980 1.650 .375 .545 1.200 028 DB2-028P 2.080 1.750 .375 .545 1.200 030 DB2-030P 2.180 1.850 .375 .545 1.400 032 DB2-034P 2.280 1.950 .375 .545 1.600 034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-034P 2.380 2.050 .375 .545 1.600 038 DB2-034P 2.380 2.250 .375 .545 1.800 040 DB2-04P 2.880 2.350 .375 .545 2.000 042 DB2-04P 2.880 2.550 <th>Number of</th> <th>DB</th> <th>Α</th> <th>В</th> <th>С</th> <th>Н</th> <th>AA</th>	Number of	DB	Α	В	С	Н	AA
022 DB2-022P 1.780 1.450 .375 .545 1.000 024 DB2-024P 1.880 1.550 .375 .545 1.100 026 DB2-026P 1.980 1.650 .375 .545 1.200 028 DB2-03PP 2.080 1.750 .375 .545 1.200 030 DB2-03PP 2.180 1.850 .375 .545 1.500 032 DB2-03PP 2.280 1.950 .375 .545 1.500 034 DB2-03PP 2.380 2.050 .375 .545 1.600 036 DB2-03PP 2.380 2.250 .375 .545 1.600 038 DB2-04PP 2.680 2.350 .375 .545 1.700 038 DB2-04PP 2.680 2.350 .375 .545 1.900 042 DB2-04PP 2.880 2.550 .375 .545 2.000 042 DB2-04PP 2.880 </td <td>Contacts</td> <td></td> <td>Max.</td> <td></td> <td>Max.</td> <td>Max.</td> <td></td>	Contacts		Max.		Max.	Max.	
024 DB2-024P 1.880 1.550 .375 .545 1.100 026 DB2-026P 1.980 1.650 .375 .545 1.200 028 DB2-028P 2.080 1.750 .375 .545 1.300 030 DB2-030P 2.180 1.850 .375 .545 1.400 032 DB2-034P 2.380 2.050 .375 .545 1.600 034 DB2-034P 2.380 2.050 .375 .545 1.700 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-04P 2.680 2.350 .375 .545 1.900 042 DB2-04P 2.880 2.550 .375 .545 2.100 044 DB2-04P 2.880 2.550 .375 .545 2.200 048 DB2-04P 2.800		DB2-020P	1.680	1.350	.375	.545	.900
026 DB2-026P 1.980 1.650 .375 .545 1.200 028 DB2-028P 2.080 1.750 .375 .545 1.300 030 DB2-032P 2.280 1.850 .375 .545 1.400 032 DB2-032P 2.280 1.950 .375 .545 1.600 034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.200 048 DB2-046P 2.980 2.650 .375 .545 2.200 052 DB2-052P 3.280 </td <td>022</td> <td>DB2-022P</td> <td>1.780</td> <td>1.450</td> <td></td> <td>.545</td> <td>1.000</td>	022	DB2-022P	1.780	1.450		.545	1.000
028 DB2-028P 2.080 1.750 .375 .545 1.300 030 DB2-030P 2.180 1.850 .375 .545 1.400 032 DB2-034P 2.280 1.950 .375 .545 1.500 034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-048P 2.880 2.550 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.300 050 DB2-052P 3.280 </td <td>024</td> <td>DB2-024P</td> <td>1.880</td> <td>1.550</td> <td>.375</td> <td>.545</td> <td>1.100</td>	024	DB2-024P	1.880	1.550	.375	.545	1.100
030 DB2-030P 2.180 1.850 .375 .545 1.400 032 DB2-032P 2.280 1.950 .375 .545 1.500 034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.700 040 DB2-044P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.000 046 DB2-044P 2.880 2.550 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.200 048 DB2-050P 3.180 2.850 .375 .545 2.500 050 DB2-052P 3.280 </td <td>026</td> <td>DB2-026P</td> <td>1.980</td> <td>1.650</td> <td>.375</td> <td>.545</td> <td>1.200</td>	026	DB2-026P	1.980	1.650	.375	.545	1.200
032 DB2-032P 2.280 1.950 .375 .545 1.500 034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.800 042 DB2-044P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.200 048 DB2-050P 3.180 2.850 .375 .545 2.300 050 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-052P 3.280 </td <td>028</td> <td>DB2-028P</td> <td>2.080</td> <td>1.750</td> <td>.375</td> <td>.545</td> <td>1.300</td>	028	DB2-028P	2.080	1.750	.375	.545	1.300
034 DB2-034P 2.380 2.050 .375 .545 1.600 036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.000 048 DB2-044P 2.880 2.550 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.200 048 DB2-05P 3.180 2.850 .375 .545 2.200 050 DB2-05P 3.180 2.850 .375 .545 2.400 052 DB2-05P 3.280 2.950 .375 .545 2.500 054 DB2-05P 3.380	030	DB2-030P	2.180	1.850	.375	.545	1.400
036 DB2-036P 2.480 2.150 .375 .545 1.700 038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-044P 2.880 2.550 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.200 050 DB2-050P 3.180 2.850 .375 .545 2.300 052 DB2-052P 3.280 2.950 .375 .545 2.400 052 DB2-05P 3.280 2.950 .375 .545 2.500 054 DB2-05P 3.380 3.050 .375 .545 2.700 058 DB2-05P 3.580	032	DB2-032P	2.280	1.950	.375	.545	1.500
038 DB2-038P 2.580 2.250 .375 .545 1.800 040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-04P 3.080 2.750 .375 .545 2.300 050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.500 056 DB2-058P 3.580 3.250 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-06P 3.680 <td>034</td> <td>DB2-034P</td> <td>2.380</td> <td>2.050</td> <td>.375</td> <td>.545</td> <td>1.600</td>	034	DB2-034P	2.380	2.050	.375	.545	1.600
040 DB2-040P 2.680 2.350 .375 .545 1.900 042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.200 050 DB2-050P 3.180 2.850 .375 .545 2.300 050 DB2-052P 3.280 2.950 .375 .545 2.400 052 DB2-054P 3.380 3.050 .375 .545 2.500 054 DB2-056P 3.480 3.150 .375 .545 2.600 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-058P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 </td <td>036</td> <td>DB2-036P</td> <td>2.480</td> <td>2.150</td> <td>.375</td> <td>.545</td> <td>1.700</td>	036	DB2-036P	2.480	2.150	.375	.545	1.700
042 DB2-042P 2.780 2.450 .375 .545 2.000 044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.300 050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-054P 3.380 3.050 .375 .545 2.600 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 062 DB2-062P 3.80 <td>038</td> <td>DB2-038P</td> <td>2.580</td> <td>2.250</td> <td>.375</td> <td>.545</td> <td>1.800</td>	038	DB2-038P	2.580	2.250	.375	.545	1.800
044 DB2-044P 2.880 2.550 .375 .545 2.100 046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.300 050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.600 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-06P 3.780 3.450 .375 .545 3.000 064 DB2-06P 3.880 3.550 .375 .545 3.000 066 DB2-06P 3.980	040	DB2-040P	2.680	2.350	.375	.545	1.900
046 DB2-046P 2.980 2.650 .375 .545 2.200 048 DB2-048P 3.080 2.750 .375 .545 2.300 050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.600 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.000 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 </td <td>042</td> <td>DB2-042P</td> <td>2.780</td> <td>2.450</td> <td>.375</td> <td>.545</td> <td>2.000</td>	042	DB2-042P	2.780	2.450	.375	.545	2.000
048 DB2-048P 3.080 2.750 .375 .545 2.300 050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 2.900 062 DB2-064P 3.880 3.550 .375 .545 3.000 064 DB2-064P 3.880 3.650 .375 .545 3.200 068 DB2-066P 3.980 3.650 .375 .545 3.300 070 DB2-068P 4.080 </td <td>044</td> <td>DB2-044P</td> <td>2.880</td> <td>2.550</td> <td>.375</td> <td>.545</td> <td>2.100</td>	044	DB2-044P	2.880	2.550	.375	.545	2.100
050 DB2-050P 3.180 2.850 .375 .545 2.400 052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.000 066 DB2-064P 3.880 3.550 .375 .545 3.000 068 DB2-064P 3.880 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.300 070 DB2-072P 4.280 </td <td>046</td> <td>DB2-046P</td> <td>2.980</td> <td>2.650</td> <td>.375</td> <td>.545</td> <td>2.200</td>	046	DB2-046P	2.980	2.650	.375	.545	2.200
052 DB2-052P 3.280 2.950 .375 .545 2.500 054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.000 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.200 070 DB2-070P 4.180 3.850 .375 .545 3.300 072 DB2-072P 4.280 </td <td>048</td> <td>DB2-048P</td> <td>3.080</td> <td>2.750</td> <td>.375</td> <td>.545</td> <td>2.300</td>	048	DB2-048P	3.080	2.750	.375	.545	2.300
054 DB2-054P 3.380 3.050 .375 .545 2.600 056 DB2-056P 3.480 3.150 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.000 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.200 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-072P 4.280 </td <td>050</td> <td>DB2-050P</td> <td>3.180</td> <td>2.850</td> <td>.375</td> <td>.545</td> <td>2.400</td>	050	DB2-050P	3.180	2.850	.375	.545	2.400
056 DB2-056P 3.480 3.150 .375 .545 2.700 058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.100 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.200 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 </td <td>052</td> <td>DB2-052P</td> <td>3.280</td> <td>2.950</td> <td>.375</td> <td>.545</td> <td>2.500</td>	052	DB2-052P	3.280	2.950	.375	.545	2.500
058 DB2-058P 3.580 3.250 .375 .545 2.800 060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.100 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.200 070 DB2-070P 4.180 3.850 .375 .545 3.300 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.800 080 DB2-080P 4.680 </td <td>054</td> <td>DB2-054P</td> <td>3.380</td> <td>3.050</td> <td>.375</td> <td>.545</td> <td>2.600</td>	054	DB2-054P	3.380	3.050	.375	.545	2.600
060 DB2-060P 3.680 3.350 .375 .545 2.900 062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.100 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.200 070 DB2-070P 4.180 3.850 .375 .545 3.300 070 DB2-072P 4.280 3.950 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 </td <td>056</td> <td>DB2-056P</td> <td>3.480</td> <td>3.150</td> <td>.375</td> <td>.545</td> <td>2.700</td>	056	DB2-056P	3.480	3.150	.375	.545	2.700
062 DB2-062P 3.780 3.450 .375 .545 3.000 064 DB2-064P 3.880 3.550 .375 .545 3.100 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.300 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 </td <td>058</td> <td>DB2-058P</td> <td>3.580</td> <td>3.250</td> <td>.375</td> <td>.545</td> <td>2.800</td>	058	DB2-058P	3.580	3.250	.375	.545	2.800
064 DB2-064P 3.880 3.550 .375 .545 3.100 066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.300 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.200 088 DB2-086P 4.980 </td <td>060</td> <td>DB2-060P</td> <td>3.680</td> <td>3.350</td> <td>.375</td> <td>.545</td> <td>2.900</td>	060	DB2-060P	3.680	3.350	.375	.545	2.900
066 DB2-066P 3.980 3.650 .375 .545 3.200 068 DB2-068P 4.080 3.750 .375 .545 3.300 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 081 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.200 088 DB2-088P 5.080 </td <td>062</td> <td>DB2-062P</td> <td>3.780</td> <td>3.450</td> <td>.375</td> <td>.545</td> <td>3.000</td>	062	DB2-062P	3.780	3.450	.375	.545	3.000
068 DB2-068P 4.080 3.750 .375 .545 3.300 070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 081 DB2-080P 4.680 4.350 .375 .545 4.000 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.200 088 DB2-086P 4.980 4.650 .375 .545 4.400 092 DB2-090P 5.180 </td <td>064</td> <td>DB2-064P</td> <td>3.880</td> <td>3.550</td> <td>.375</td> <td>.545</td> <td>3.100</td>	064	DB2-064P	3.880	3.550	.375	.545	3.100
070 DB2-070P 4.180 3.850 .375 .545 3.400 072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.400 092 DB2-090P 5.180 4.850 .375 .545 4.500 094 DB2-094P 5.380 </td <td>066</td> <td>DB2-066P</td> <td>3.980</td> <td>3.650</td> <td>.375</td> <td>.545</td> <td>3.200</td>	066	DB2-066P	3.980	3.650	.375	.545	3.200
072 DB2-072P 4.280 3.950 .375 .545 3.500 074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 </td <td>068</td> <td>DB2-068P</td> <td>4.080</td> <td>3.750</td> <td>.375</td> <td>.545</td> <td>3.300</td>	068	DB2-068P	4.080	3.750	.375	.545	3.300
074 DB2-074P 4.380 4.050 .375 .545 3.600 076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-090P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 </td <td>070</td> <td>DB2-070P</td> <td>4.180</td> <td>3.850</td> <td>.375</td> <td>.545</td> <td>3.400</td>	070	DB2-070P	4.180	3.850	.375	.545	3.400
076 DB2-076P 4.480 4.150 .375 .545 3.700 078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.800 100 DB2-100P 5.680 </td <td>072</td> <td>DB2-072P</td> <td>4.280</td> <td>3.950</td> <td>.375</td> <td>.545</td> <td>3.500</td>	072	DB2-072P	4.280	3.950	.375	.545	3.500
078 DB2-078P 4.580 4.250 .375 .545 3.800 080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.800 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 </td <td>074</td> <td>DB2-074P</td> <td>4.380</td> <td>4.050</td> <td>.375</td> <td>.545</td> <td>3.600</td>	074	DB2-074P	4.380	4.050	.375	.545	3.600
080 DB2-080P 4.680 4.350 .375 .545 3.900 082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 </td <td>076</td> <td>DB2-076P</td> <td>4.480</td> <td>4.150</td> <td>.375</td> <td>.545</td> <td>3.700</td>	076	DB2-076P	4.480	4.150	.375	.545	3.700
082 DB2-082P 4.780 4.450 .375 .545 4.000 084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 </td <td>078</td> <td>DB2-078P</td> <td>4.580</td> <td>4.250</td> <td>.375</td> <td>.545</td> <td>3.800</td>	078	DB2-078P	4.580	4.250	.375	.545	3.800
084 DB2-084P 4.880 4.550 .375 .545 4.100 086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 </td <td>080</td> <td>DB2-080P</td> <td>4.680</td> <td>4.350</td> <td>.375</td> <td>.545</td> <td>3.900</td>	080	DB2-080P	4.680	4.350	.375	.545	3.900
086 DB2-086P 4.980 4.650 .375 .545 4.200 088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 </td <td>082</td> <td>DB2-082P</td> <td>4.780</td> <td>4.450</td> <td>.375</td> <td>.545</td> <td>4.000</td>	082	DB2-082P	4.780	4.450	.375	.545	4.000
088 DB2-088P 5.080 4.750 .375 .545 4.300 090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	084	DB2-084P	4.880	4.550	.375	.545	4.100
090 DB2-090P 5.180 4.850 .375 .545 4.400 092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	086	DB2-086P	4.980	4.650	.375	.545	4.200
092 DB2-092P 5.280 4.950 .375 .545 4.500 094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	088	DB2-088P	5.080	4.750	.375	.545	4.300
094 DB2-094P 5.380 5.050 .375 .545 4.600 096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	090	DB2-090P	5.180	4.850	.375	.545	4.400
096 DB2-096P 5.480 5.150 .375 .545 4.700 098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	092	DB2-092P	5.280	4.950	.375	.545	4.500
098 DB2-098P 5.580 5.250 .375 .545 4.800 100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	094	DB2-094P	5.380	5.050	.375	.545	4.600
100 DB2-100P 5.680 5.350 .375 .545 4.900 102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	096	DB2-096P	5.480	5.150	.375	.545	4.700
102 DB2-102P 5.780 5.450 .375 .545 5.000 104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	098	DB2-098P	5.580	5.250	.375	.545	4.800
104 DB2-104P 5.880 5.550 .375 .545 5.100 106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	100	DB2-100P	5.680	5.350	.375	.545	4.900
106 DB2-106P 5.980 5.650 .375 .545 5.200 108 DB2-108P 6.080 5.750 .375 .545 5.300	102	DB2-102P	5.780	5.450	.375	.545	5.000
108 DB2-108P 6.080 5.750 .375 .545 5.300	104	DB2-104P	5.880	5.550	.375	.545	5.100
	106	DB2-106P	5.980	5.650	.375	.545	5.200
110 DB2-110P 6.180 5.850 .375 .545 5.400	108	DB2-108P	6.080	5.750	.375	.545	5.300
	110	DB2-110P	6.180	5.850	.375	.545	5.400

Number of Contacts DB Number* A Max. B C Max. C H Max. AA Max. 112 DB2-112P 6.280 5.950 .375 .545 5.500 114 DB2-114P 6.380 6.050 .375 .545 5.600 116 DB2-118P 6.580 6.250 .375 .545 5.700 118 DB2-12P 6.680 6.350 .375 .545 5.800 120 DB2-12P 6.680 6.350 .375 .545 5.900 122 DB2-12P 6.780 6.450 .375 .545 6.000 124 DB2-12P 6.880 6.550 .375 .545 6.200 128 DB2-12P 7.080 6.750 .375 .545 6.200 130 DB2-13P 7.180 6.850 .375 .545 6.300 131 DB2-13P 7.280 6.950 .375 .545 6.600 134 DB2-13P 7.380							
Contacts Number* Max. Max. Max. Max. Max. 112 DB2-112P 6.280 5.950 .375 .545 5.500 114 DB2-114P 6.380 6.050 .375 .545 5.600 116 DB2-118P 6.580 6.250 .375 .545 5.800 118 DB2-12P 6.680 6.350 .375 .545 5.900 120 DB2-12P 6.780 6.450 .375 .545 6.000 122 DB2-12P 6.880 6.550 .375 .545 6.000 128 DB2-12P 7.080 6.750 .375 .545 6.200 130 DB2-13P 7.180 6.850 .375 .545 6.400 132 DB2-13P 7.280 6.950 .375 .545 6.500 134 DB2-13P 7.380 7.050 .375 .545 6.600 134 DB2-13P 7.580		55		_			
112 DB2-112P 6.280 5.950 .375 .545 5.500 114 DB2-114P 6.380 6.050 .375 .545 5.600 116 DB2-116P 6.480 6.150 .375 .545 5.700 118 DB2-118P 6.580 6.250 .375 .545 5.800 120 DB2-12P 6.780 6.450 .375 .545 5.900 122 DB2-12P 6.780 6.450 .375 .545 6.900 124 DB2-12P 6.880 6.550 .375 .545 6.200 126 DB2-12P 7.080 6.650 .375 .545 6.200 128 DB2-13P 7.080 6.750 .375 .545 6.200 130 DB2-13P 7.280 6.950 .375 .545 6.300 131 DB2-13P 7.380 7.050 .375 .545 6.600 134 DB2-13P 7.480				В			AA
114 DB2-114P 6.380 6.050 .375 .545 5.600 116 DB2-116P 6.480 6.150 .375 .545 5.700 118 DB2-118P 6.580 6.250 .375 .545 5.800 120 DB2-12P 6.680 6.350 .375 .545 5.900 122 DB2-12P 6.780 6.450 .375 .545 6.000 124 DB2-12P 6.880 6.550 .375 .545 6.100 126 DB2-12P 7.080 6.650 .375 .545 6.200 128 DB2-13P 7.080 6.750 .375 .545 6.300 130 DB2-13P 7.280 6.950 .375 .545 6.400 132 DB2-13P 7.280 6.950 .375 .545 6.500 134 DB2-13P 7.380 7.050 .375 .545 6.700 138 DB2-13P 7.680				5 950			5 500
116 DB2-116P 6.480 6.150 .375 .545 5.700 118 DB2-118P 6.580 6.250 .375 .545 5.800 120 DB2-120P 6.680 6.350 .375 .545 5.900 122 DB2-124P 6.880 6.550 .375 .545 6.000 124 DB2-126P 6.980 6.650 .375 .545 6.000 126 DB2-128P 7.080 6.750 .375 .545 6.200 128 DB2-130P 7.180 6.850 .375 .545 6.300 130 DB2-130P 7.180 6.850 .375 .545 6.400 132 DB2-134P 7.380 6.950 .375 .545 6.600 134 DB2-134P 7.380 7.050 .375 .545 6.600 138 DB2-138P 7.580 7.250 .375 .545 6.700 140 DB2-140P 7.680 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
118 DB2-118P 6.580 6.250 3.75 5.45 5.800 120 DB2-120P 6.680 6.350 3.75 5.45 5.900 122 DB2-122P 6.780 6.450 3.75 5.45 6.000 124 DB2-124P 6.880 6.550 3.75 5.45 6.100 126 DB2-126P 6.980 6.650 3.75 5.45 6.200 128 DB2-128P 7.080 6.750 3.75 5.45 6.300 130 DB2-130P 7.180 6.850 3.75 5.45 6.300 132 DB2-132P 7.280 6.950 3.75 5.45 6.500 134 DB2-134P 7.380 7.050 3.75 5.45 6.600 135 DB2-138P 7.480 7.150 3.75 5.45 6.600 136 DB2-138P 7.580 7.250 3.75 5.45 6.600 137 DB2-140P 7.680 7.350 3.75 5.45 6.900 140 DB2-140P 7.680 7.350 3.75 5.45 6.900 141 DB2-144P 7.880 7.550 3.75 5.45 7.000 142 DB2-142P 7.780 7.450 3.75 5.45 7.000 144 DB2-144P 7.880 7.550 3.75 5.45 7.200 148 DB2-148P 8.080 7.750 3.75 5.45 7.300 150 DB2-150P 8.180 7.850 3.75 5.45 7.400 152 DB2-154P 8.380 8.050 3.75 5.45 7.600 154 DB2-154P 8.380 8.050 3.75 5.45 7.600 156 DB2-156P 8.480 8.150 3.75 5.45 7.600 158 DB2-158P 8.580 8.250 3.75 5.45 7.800 160 DB2-160P 8.680 8.350 3.75 5.45 8.000 161 DB2-160P 8.680 8.350 3.75 5.45 8.000 162 DB2-164P 8.980 8.650 3.75 5.45 8.000 163 DB2-172P 9.280 8.950 3.75 5.45 8.000 164 DB2-164P 8.980 8.650 3.75 5.45 8.000 165 DB2-174P 9.380 9.050 3.75 5.45 8.000 166 DB2-160P 9.480 9.150 3.75 5.45 8.000 170 DB2-170P 9.180 8.850 3.75 5.45 8.000 171 DB2-170P 9.180 8.850 3.75 5.45 8.000 172 DB2-172P 9.280 8.950 3.75 5.45 8.000 173 DB2-174P 9.380 9.050 3.75 5.45 8.000 184 DB2-180P 9.680 9.350 3.75 5.45 8.000 185 DB2-180P 9.680 9.350 3.75 5.45 8.000 186 DB2-180P 9.680 9.350 3.75 5.45 9.							
120 DB2-120P 6.680 6.350 3.75 5.45 5.900 122 DB2-122P 6.780 6.450 3.75 5.45 6.000 124 DB2-124P 6.880 6.550 3.75 5.45 6.000 126 DB2-126P 6.980 6.650 3.75 5.45 6.200 128 DB2-128P 7.080 6.750 3.75 5.45 6.300 130 DB2-130P 7.180 6.850 3.75 5.45 6.500 132 DB2-132P 7.280 6.950 3.75 5.45 6.500 134 DB2-134P 7.380 7.050 3.75 5.45 6.600 136 DB2-136P 7.480 7.150 3.75 5.45 6.800 137 DB2-138P 7.580 7.250 3.75 5.45 6.800 138 DB2-138P 7.580 7.250 3.75 5.45 6.800 140 DB2-140P 7.680 7.350 3.75 5.45 6.900 141 DB2-144P 7.880 7.550 3.75 5.45 7.000 142 DB2-144P 7.880 7.550 3.75 5.45 7.000 143 DB2-148P 8.080 7.750 3.75 5.45 7.200 144 DB2-144P 7.880 7.650 3.75 5.45 7.300 148 DB2-148P 8.080 7.750 3.75 5.45 7.300 150 DB2-150P 8.180 7.850 3.75 5.45 7.500 151 DB2-154P 8.380 8.050 3.75 5.45 7.500 152 DB2-154P 8.380 8.050 3.75 5.45 7.500 153 DB2-156P 8.480 8.150 3.75 5.45 7.600 154 DB2-158P 8.580 8.250 3.75 5.45 7.800 156 DB2-150P 8.180 8.350 3.75 5.45 7.800 160 DB2-160P 8.680 8.350 3.75 5.45 7.800 161 DB2-164P 8.880 8.550 3.75 5.45 8.000 162 DB2-162P 8.780 8.450 3.75 5.45 8.000 164 DB2-164P 8.880 8.550 3.75 5.45 8.000 165 DB2-164P 8.980 8.650 3.75 5.45 8.000 166 DB2-160P 9.180 8.850 3.75 5.45 8.000 167 DB2-170P 9.180 8.850 3.75 5.45 8.000 168 DB2-170P 9.180 8.850 3.75 5.45 8.000 170 DB2-170P 9.180 8.850 3.75 5.45 8.000 171 DB2-170P 9.180 9.550 3.75 5.45 8.000 182 DB2-180P 9.680 9.350 3.75 5.45 8.000 183 DB2-180P 9.680 9.350 3.75 5.45 8.000 184 DB2-180P 9.680 9.350 3.75 5.45 9.							
122 DB2-122P 6.780 6.450 .375 .545 6.000 124 DB2-124P 6.880 6.550 .375 .545 6.100 126 DB2-126P 6.980 6.650 .375 .545 6.200 128 DB2-128P 7.080 6.750 .375 .545 6.300 130 DB2-130P 7.180 6.850 .375 .545 6.500 132 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-138P 7.380 7.050 .375 .545 6.600 138 DB2-138P 7.580 7.250 .375 .545 6.600 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 144 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-14P 7.880 <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_						
124 DB2-124P 6.880 6.550 .375 .545 6.100 126 DB2-126P 6.980 6.650 .375 .545 6.200 128 DB2-128P 7.080 6.750 .375 .545 6.300 130 DB2-130P 7.180 6.850 .375 .545 6.400 132 DB2-134P 7.380 7.050 .375 .545 6.500 134 DB2-134P 7.380 7.050 .375 .545 6.700 136 DB2-138P 7.580 7.250 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.700 140 DB2-142P 7.780 7.450 .375 .545 6.900 142 DB2-14P 7.880 7.550 .375 .545 7.000 144 DB2-14P 7.880 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
126 DB2-126P 6.980 6.650 .375 .545 6.200 128 DB2-128P 7.080 6.750 .375 .545 6.300 130 DB2-130P 7.180 6.850 .375 .545 6.400 132 DB2-132P 7.280 6.950 .375 .545 6.500 134 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-136P 7.480 7.150 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.800 140 DB2-144P 7.680 7.350 .375 .545 6.900 142 DB2-144P 7.880 7.550 .375 .545 7.000 144 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
128 DB2-128P 7.080 6.750 .375 .545 6.300 130 DB2-130P 7.180 6.850 .375 .545 6.400 132 DB2-132P 7.280 6.950 .375 .545 6.500 134 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-136P 7.480 7.150 .375 .545 6.600 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-144P 7.680 7.350 .375 .545 6.900 142 DB2-144P 7.880 7.350 .375 .545 7.000 144 DB2-144P 7.880 7.650 .375 .545 7.000 144 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-146P 7.980 7.650 .375 .545 7.200 150 DB2-150P 8.180 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
130 DB2-130P 7.180 6.850 .375 .545 6.400 132 DB2-132P 7.280 6.950 .375 .545 6.500 134 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-136P 7.480 7.150 .375 .545 6.600 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.000 144 DB2-146P 7.980 7.650 .375 .545 7.000 144 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 7.750 .375 .545 7.300 150 DB2-152P 8.280 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
132 DB2-132P 7.280 6.950 .375 .545 6.500 134 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-136P 7.480 7.150 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.000 144 DB2-14P 7.880 7.550 .375 .545 7.200 148 DB2-150P 8.180 7.550 .375 .545 7.300 150 DB2-152P 8.280 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
134 DB2-134P 7.380 7.050 .375 .545 6.600 136 DB2-136P 7.480 7.150 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.000 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 7.750 .375 .545 7.200 148 DB2-150P 8.180 7.850 .375 .545 7.200 150 DB2-150P 8.180 7.850 .375 .545 7.300 150 DB2-152P 8.280 7.950 .375 .545 7.500 152 DB2-152P 8.280 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
136 DB2-136P 7.480 7.150 .375 .545 6.700 138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.100 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 7.750 .375 .545 7.200 148 DB2-150P 8.180 7.850 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.300 150 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-156P 8.480 8.150 .375 .545 7.600 156 DB2-156P 8.480 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
138 DB2-138P 7.580 7.250 .375 .545 6.800 140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.100 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-150P 8.180 7.750 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.300 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.500 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-156P 8.480 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
140 DB2-140P 7.680 7.350 .375 .545 6.900 142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.100 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-150P 8.180 7.750 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.300 150 DB2-152P 8.280 7.950 .375 .545 7.300 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.600 158 DB2-158P 8.580 8.250 .375 .545 7.800 150 DB2-160P 8.680 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
142 DB2-142P 7.780 7.450 .375 .545 7.000 144 DB2-144P 7.880 7.550 .375 .545 7.100 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-150P 8.180 7.850 .375 .545 7.300 150 DB2-152P 8.280 7.950 .375 .545 7.300 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.500 154 DB2-156P 8.480 8.150 .375 .545 7.600 158 DB2-156P 8.480 8.150 .375 .545 7.600 158 DB2-158P 8.580 8.250 .375 .545 7.600 156 DB2-156P 8.480 8.350 .375 .545 7.800 160 DB2-16P 8.780 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
144 DB2-144P 7.880 7.550 .375 .545 7.100 146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 7.750 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.400 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.600 158 DB2-158P 8.580 8.250 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.700 158 DB2-156P 8.480 8.350 .375 .545 7.900 160 DB2-160P 8.680 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
146 DB2-146P 7.980 7.650 .375 .545 7.200 148 DB2-148P 8.080 7.750 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.400 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.700 158 DB2-160P 8.680 8.350 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-16P 8.780 8.450 .375 .545 8.000 164 DB2-16P 8.880 8.550 .375 .545 8.200 166 DB2-16P 8.980							
148 DB2-148P 8.080 7.750 .375 .545 7.300 150 DB2-150P 8.180 7.850 .375 .545 7.400 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.700 158 DB2-160P 8.680 8.350 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.200 168 DB2-166P 8.980 8.650 .375 .545 8.200 170 DB2-170P 9.180 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
150 DB2-150P 8.180 7.850 .375 .545 7.400 152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
152 DB2-152P 8.280 7.950 .375 .545 7.500 154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 7.900 164 DB2-164P 8.880 8.550 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.000 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.200 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
154 DB2-154P 8.380 8.050 .375 .545 7.600 156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.000 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.200 168 DB2-170P 9.180 8.850 .375 .545 8.200 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
156 DB2-156P 8.480 8.150 .375 .545 7.700 158 DB2-158P 8.580 8.250 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.200 170 DB2-170P 9.180 8.850 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
158 DB2-158P 8.580 8.250 .375 .545 7.800 160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-180P 9.680 9.350 .375 .545 8.800 180 DB2-180P 9.680 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
160 DB2-160P 8.680 8.350 .375 .545 7.900 162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
162 DB2-162P 8.780 8.450 .375 .545 8.000 164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
164 DB2-164P 8.880 8.550 .375 .545 8.100 166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.200 186 DB2-186P 9.980 </td <td></td> <td>DB2-160P</td> <td></td> <td></td> <td>.375</td> <td>.545</td> <td>7.900</td>		DB2-160P			.375	.545	7.900
166 DB2-166P 8.980 8.650 .375 .545 8.200 168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.200 186 DB2-186P 9.980 9.650 .375 .545 9.300 190 DB2-190P 10.180<	162		8.780	8.450	.375	.545	8.000
168 DB2-168P 9.080 8.750 .375 .545 8.300 170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.400 192 DB2-190P 10.180	164	DB2-164P	8.880	8.550	.375	.545	8.100
170 DB2-170P 9.180 8.850 .375 .545 8.400 172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.500 192 DB2-192P 10.28	166	DB2-166P	8.980	8.650	.375	.545	8.200
172 DB2-172P 9.280 8.950 .375 .545 8.500 174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.3	168	DB2-168P	9.080	8.750	.375	.545	8.300
174 DB2-174P 9.380 9.050 .375 .545 8.600 176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10	170	DB2-170P	9.180	8.850	.375	.545	8.400
176 DB2-176P 9.480 9.150 .375 .545 8.700 178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P	172	DB2-172P	9.280	8.950	.375	.545	8.500
178 DB2-178P 9.580 9.250 .375 .545 8.800 180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	174	DB2-174P	9.380	9.050	.375	.545	8.600
180 DB2-180P 9.680 9.350 .375 .545 8.900 182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	176	DB2-176P	9.480	9.150	.375	.545	8.700
182 DB2-182P 9.780 9.450 .375 .545 9.000 184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	178	DB2-178P	9.580	9.250	.375	.545	8.800
184 DB2-184P 9.880 9.550 .375 .545 9.100 186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	180	DB2-180P	9.680	9.350	.375	.545	8.900
186 DB2-186P 9.980 9.650 .375 .545 9.200 188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	182	DB2-182P	9.780	9.450	.375	.545	9.000
188 DB2-188P 10.080 9.750 .375 .545 9.300 190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	184	DB2-184P	9.880	9.550	.375	.545	9.100
190 DB2-190P 10.180 9.850 .375 .545 9.400 192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	186	DB2-186P	9.980	9.650	.375	.545	9.200
192 DB2-192P 10.280 9.950 .375 .545 9.500 194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	188	DB2-188P	10.080	9.750	.375	.545	9.300
194 DB2-194P 10.380 10.050 .375 .545 9.600 196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	190	DB2-190P	10.180	9.850	.375	.545	9.400
196 DB2-196P 10.480 10.150 .375 .545 9.700 198 DB2-198P 10.580 10.250 .375 .545 9.800	192	DB2-192P	10.280	9.950	.375	.545	9.500
198 DB2-198P 10.580 10.250 .375 .545 9.800	194	DB2-194P	10.380	10.050	.375	.545	9.600
	196	DB2-196P	10.480	10.150	.375	.545	9.700
200 DB2-200P 10.680 10.350 375 545 9.900	198	DB2-198P	10.580	10.250	.375	.545	9.800
200 222 2001 10.000 10.000 10.000 0.000	200	DB2-200P	10.680	10.350	.375	.545	9.900

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force daughter board connector 3 row contact arrangements

Number of Contacts	DB Number*	A Max.	В	C Max.	H Max.	AA
030	DB3-030P	1.680	1.350	.475	.645	.900
033	DB3-033P	1.780	1.450	.475	.645	1.000
036	DB3-036P	1.880	1.550	.475	.645	1.100
039	DB3-039P	1.980	1.650	.475	.645	1.200
042	DB3-042P	2.080	1.750	.475	.645	1.300
045	DB3-045P	2.180	1.850	.475	.645	1.400
048	DB3-048P	2.280	1.950	.475	.645	1.500
051	DB3-051P	2.380	2.050	.475	.645	1.600
054	DB3-054P	2.480	2.150	.475	.645	1.700
057	DB3-057P	2.580	2.250	.475	.645	1.800
060	DB3-060P	2.680	2.350	.475	.645	1.900
063	DB3-063P	2.780	2.450	.475	.645	2.000
066	DB3-066P	2.880	2.550	.475	.645	2.100
069	DB3-069P	2.980	2.650	.475	.645	2.200
072	DB3-072P	3.080	2.750	.475	.645	2.300
075	DB3-075P	3.180	2.850	.475	.645	2.400
078	DB3-078P	3.280	2.950	.475	.645	2.500
081	DB3-081P	3.380	3.050	.475	.645	2.600
084	DB3-084P	3.480	3.150	.475	.645	2.700
087	DB3-087P	3.580	3.250	.475	.645	2.800
090	DB3-090P	3.680	3.350	.475	.645	2.900
093	DB3-093P	3.780	3.450	.475	.645	3.000
096	DB3-096P	3.880	3.550	.475	.645	3.100
099	DB3-099P	3.980	3.650	.475	.645	3.200
102	DB3-102P	4.080	3.750	.475	.645	3.300
105	DB3-105P	4.180	3.850	.475	.645	3.400
108	DB3-108P	4.280	3.950	.475	.645	3.500
111	DB3-111P	4.380	4.050	.475	.645	3.600
114	DB3-114P	4.480	4.150	.475	.645	3.700
117	DB3-117P	4.580	4.250	.475	.645	3.800
120	DB3-120P	4.680	4.350	.475	.645	3.900
123	DB3-123P	4.780	4.450	.475	.645	4.000
126	DB3-126P	4.880	4.550	.475	.645	4.100
129	DB3-129P	4.980	4.650	.475	.645	4.200
132	DB3-132P	5.080	4.750	.475	.645	4.300
135	DB3-135P	5.180	4.850	.475	.645	4.400
138	DB3-138P	5.280	4.950	.475	.645	4.500
141	DB3-141P	5.380	5.050	.475	.645	4.600
144	DB3-144P	5.480	5.150	.475	.645	4.700
147	DB3-147P	5.580	5.250	.475	.645	4.800
150	DB3-150P	5.680	5.350	.475	.645	4.900
153	DB3-153P	5.780	5.450	.475	.645	5.000
156	DB3-156P	5.880	5.550	.475	.645	5.100
159	DB3-159P	5.980	5.650	.475	.645	5.200
162	DB3-162P	6.080	5.750	.475	.645	5.300
165	DB3-165P	6.180	5.850	.475	.645	5.400

Number of Contacts DB Number* A Max. B C Max. H Max. AA 168 DB3-168P 6.280 5.950 .475 .645 5.500 171 DB3-171P 6.380 6.050 .475 .645 5.600 174 DB3-177P 6.580 6.250 .475 .645 5.700 177 DB3-180P 6.680 6.350 .475 .645 5.800 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-180P 6.680 6.350 .475 .645 6.000 188 DB3-180P 6.980 6.650 .475 .645 6.000 189 DB3-192P 7.080 6.950 .475 .645 6.200 192 DB3-192P 7.080 6.950 .475 .645 6.200 192 DB3-192P 7.180 6.850 .475 .645 6.300 201 DB3-201P							
Contacts Number* Max. Max. Max. Max. 168 DB3-168P 6.280 5.950 .475 .645 5.500 171 DB3-171P 6.380 6.050 .475 .645 5.600 174 DB3-17PP 6.580 6.250 .475 .645 5.700 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-183P 6.780 6.450 .475 .645 6.900 186 DB3-189P 6.980 6.650 .475 .645 6.200 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.200 192 DB3-198P 7.180 6.850 .475 .645 6.300 201 DB3-201P 7.380 7.050		DR	_	R	_	ш	^^
171 DB3-171P 6.380 6.050 .475 .645 5.600 174 DB3-174P 6.480 6.150 .475 .645 5.700 177 DB3-177P 6.580 6.250 .475 .645 5.800 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-189P 6.780 6.450 .475 .645 6.000 189 DB3-189P 6.780 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-192P 7.180 6.850 .475 .645 6.300 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 201 DB3-219P 7.580 </td <td></td> <td></td> <td></td> <td>ь</td> <td></td> <td></td> <td>AA</td>				ь			AA
171 DB3-171P 6.380 6.050 .475 .645 5.600 174 DB3-174P 6.480 6.150 .475 .645 5.700 177 DB3-177P 6.580 6.250 .475 .645 5.800 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-189P 6.780 6.450 .475 .645 6.000 189 DB3-189P 6.780 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-192P 7.180 6.850 .475 .645 6.300 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 201 DB3-219P 7.580 </td <td>168</td> <td>DB3-168P</td> <td>6.280</td> <td>5.950</td> <td>.475</td> <td>.645</td> <td>5.500</td>	168	DB3-168P	6.280	5.950	.475	.645	5.500
174 DB3-174P 6.480 6.150 .475 .645 5.700 177 DB3-177P 6.580 6.250 .475 .645 5.800 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-183P 6.780 6.450 .475 .645 6.000 186 DB3-186P 6.880 6.550 .475 .645 6.100 189 DB3-192P 7.080 6.750 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-192P 7.180 6.850 .475 .645 6.300 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-201P 7.480 7.150 .475 .645 6.700 207 DB3-219P 7.580 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
177 DB3-177P 6.580 6.250 .475 .645 5.800 180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-183P 6.780 6.450 .475 .645 6.000 186 DB3-186P 6.880 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.300 198 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-201P 7.380 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 207 DB3-201P 7.580 7.250 .475 .645 6.700 210 DB3-219P 7.580 </td <td>174</td> <td>DB3-174P</td> <td>6.480</td> <td>6.150</td> <td>.475</td> <td>.645</td> <td>5.700</td>	174	DB3-174P	6.480	6.150	.475	.645	5.700
180 DB3-180P 6.680 6.350 .475 .645 5.900 183 DB3-183P 6.780 6.450 .475 .645 6.000 186 DB3-186P 6.880 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-201P 7.480 7.150 .475 .645 6.600 207 DB3-201P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 7.000 213 DB3-219P 7.980 </td <td></td> <td>_</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		_			-		
183 DB3-183P 6.780 6.450 .475 .645 6.000 186 DB3-186P 6.880 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.600 207 DB3-20P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-219P 7.980 7.450 .475 .645 7.000 219 DB3-219P 7.980 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
186 DB3-186P 6.880 6.550 .475 .645 6.100 189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.600 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-219P 7.780 7.450 .475 .645 7.000 216 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-229P 8.080 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
189 DB3-189P 6.980 6.650 .475 .645 6.200 192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.600 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-210P 7.680 7.350 .475 .645 7.000 216 DB3-219P 7.980 7.650 .475 .645 7.200 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-229P 8.080 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>6.100</td>					-		6.100
192 DB3-192P 7.080 6.750 .475 .645 6.300 195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.700 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-219P 7.980 7.650 .475 .645 7.200 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 </td <td>189</td> <td>DB3-189P</td> <td></td> <td></td> <td>.475</td> <td></td> <td></td>	189	DB3-189P			.475		
195 DB3-195P 7.180 6.850 .475 .645 6.400 198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.700 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-219P 7.980 7.650 .475 .645 7.000 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.500 231 DB3-231P 8.380 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>.645</td> <td></td>						.645	
198 DB3-198P 7.280 6.950 .475 .645 6.500 201 DB3-201P 7.380 7.050 .475 .645 6.600 204 DB3-204P 7.480 7.150 .475 .645 6.700 207 DB3-210P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-216P 7.880 7.550 .475 .645 7.000 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-22P 8.080 7.750 .475 .645 7.300 222 DB3-22P 8.080 7.750 .475 .645 7.400 228 DB3-22P 8.280 7.950 .475 .645 7.500 231 DB3-23P 8.380	195	DB3-195P	7.180		.475		
204 DB3-204P 7.480 7.150 .475 .645 6.700 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-216P 7.880 7.550 .475 .645 7.100 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 231 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 </td <td>198</td> <td>DB3-198P</td> <td>7.280</td> <td>6.950</td> <td>.475</td> <td>.645</td> <td>6.500</td>	198	DB3-198P	7.280	6.950	.475	.645	6.500
204 DB3-204P 7.480 7.150 .475 .645 6.700 207 DB3-207P 7.580 7.250 .475 .645 6.800 210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-216P 7.880 7.550 .475 .645 7.100 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.800 240 DB3-240P 8.680 </td <td>201</td> <td>DB3-201P</td> <td>7.380</td> <td>7.050</td> <td>.475</td> <td>.645</td> <td>6.600</td>	201	DB3-201P	7.380	7.050	.475	.645	6.600
210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-216P 7.880 7.550 .475 .645 7.100 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.800 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-249P 8.880 </td <td>204</td> <td>DB3-204P</td> <td></td> <td></td> <td></td> <td>.645</td> <td>6.700</td>	204	DB3-204P				.645	6.700
210 DB3-210P 7.680 7.350 .475 .645 6.900 213 DB3-213P 7.780 7.450 .475 .645 7.000 216 DB3-216P 7.880 7.550 .475 .645 7.100 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.800 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 8.000 243 DB3-249P 8.980 </td <td>207</td> <td>DB3-207P</td> <td>7.580</td> <td>7.250</td> <td>.475</td> <td>.645</td> <td>6.800</td>	207	DB3-207P	7.580	7.250	.475	.645	6.800
216 DB3-216P 7.880 7.550 .475 .645 7.100 219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 </td <td>210</td> <td>DB3-210P</td> <td></td> <td>7.350</td> <td>.475</td> <td>.645</td> <td>6.900</td>	210	DB3-210P		7.350	.475	.645	6.900
219 DB3-219P 7.980 7.650 .475 .645 7.200 222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-258P 9.280 </td <td>213</td> <td>DB3-213P</td> <td>7.780</td> <td>7.450</td> <td>.475</td> <td>.645</td> <td>7.000</td>	213	DB3-213P	7.780	7.450	.475	.645	7.000
222 DB3-222P 8.080 7.750 .475 .645 7.300 225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-249P 8.980 8.650 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-258P 9.280 </td <td>216</td> <td>DB3-216P</td> <td>7.880</td> <td>7.550</td> <td>.475</td> <td>.645</td> <td>7.100</td>	216	DB3-216P	7.880	7.550	.475	.645	7.100
225 DB3-225P 8.180 7.850 .475 .645 7.400 228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.500 258 DB3-258P 9.280 </td <td>219</td> <td>DB3-219P</td> <td>7.980</td> <td>7.650</td> <td>.475</td> <td>.645</td> <td>7.200</td>	219	DB3-219P	7.980	7.650	.475	.645	7.200
228 DB3-228P 8.280 7.950 .475 .645 7.500 231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.500 258 DB3-258P 9.280 8.950 .475 .645 8.600 261 DB3-261P 9.380 </td <td>222</td> <td>DB3-222P</td> <td>8.080</td> <td>7.750</td> <td>.475</td> <td>.645</td> <td>7.300</td>	222	DB3-222P	8.080	7.750	.475	.645	7.300
231 DB3-231P 8.380 8.050 .475 .645 7.600 234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 </td <td>225</td> <td>DB3-225P</td> <td>8.180</td> <td>7.850</td> <td>.475</td> <td>.645</td> <td>7.400</td>	225	DB3-225P	8.180	7.850	.475	.645	7.400
234 DB3-234P 8.480 8.150 .475 .645 7.700 237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.800 270 DB3-270P 9.680 </td <td>228</td> <td>DB3-228P</td> <td>8.280</td> <td>7.950</td> <td>.475</td> <td>.645</td> <td>7.500</td>	228	DB3-228P	8.280	7.950	.475	.645	7.500
237 DB3-237P 8.580 8.250 .475 .645 7.800 240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 </td <td>231</td> <td>DB3-231P</td> <td>8.380</td> <td>8.050</td> <td>.475</td> <td>.645</td> <td>7.600</td>	231	DB3-231P	8.380	8.050	.475	.645	7.600
240 DB3-240P 8.680 8.350 .475 .645 7.900 243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.900 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 </td <td>234</td> <td>DB3-234P</td> <td>8.480</td> <td>8.150</td> <td>.475</td> <td>.645</td> <td>7.700</td>	234	DB3-234P	8.480	8.150	.475	.645	7.700
243 DB3-243P 8.780 8.450 .475 .645 8.000 246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.900 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 </td <td>237</td> <td>DB3-237P</td> <td>8.580</td> <td>8.250</td> <td>.475</td> <td>.645</td> <td>7.800</td>	237	DB3-237P	8.580	8.250	.475	.645	7.800
246 DB3-246P 8.880 8.550 .475 .645 8.100 249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.900 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 </td <td>240</td> <td>DB3-240P</td> <td>8.680</td> <td>8.350</td> <td>.475</td> <td>.645</td> <td>7.900</td>	240	DB3-240P	8.680	8.350	.475	.645	7.900
249 DB3-249P 8.980 8.650 .475 .645 8.200 252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080<	243	DB3-243P	8.780	8.450	.475	.645	8.000
252 DB3-252P 9.080 8.750 .475 .645 8.300 255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	246	DB3-246P	8.880	8.550	.475	.645	8.100
255 DB3-255P 9.180 8.850 .475 .645 8.400 258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	249	DB3-249P	8.980	8.650	.475	.645	8.200
258 DB3-258P 9.280 8.950 .475 .645 8.500 261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	252	DB3-252P	9.080	8.750	.475	.645	8.300
261 DB3-261P 9.380 9.050 .475 .645 8.600 264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	255	DB3-255P	9.180	8.850	.475	.645	8.400
264 DB3-264P 9.480 9.150 .475 .645 8.700 267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	258	DB3-258P	9.280	8.950	.475	.645	8.500
267 DB3-267P 9.580 9.250 .475 .645 8.800 270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	261	DB3-261P	9.380	9.050	.475	.645	8.600
270 DB3-270P 9.680 9.350 .475 .645 8.900 273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	264	DB3-264P	9.480	9.150	.475	.645	8.700
273 DB3-273P 9.780 9.450 .475 .645 9.000 276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	267	DB3-267P	9.580	9.250	.475	.645	8.800
276 DB3-276P 9.880 9.550 .475 .645 9.100 279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	270	DB3-270P	9.680	9.350	.475	.645	8.900
279 DB3-279P 9.980 9.650 .475 .645 9.200 282 DB3-282P 10.080 9.750 .475 .645 9.300	273	DB3-273P	9.780	9.450	.475	.645	9.000
282 DB3-282P 10.080 9.750 .475 .645 9.300	276	DB3-276P	9.880	9.550	.475	.645	9.100
	279	DB3-279P	9.980	9.650	.475	.645	9.200
285 DB3-285P 10.180 9.850 .475 .645 9.400	282	DB3-282P	10.080	9.750	.475	.645	9.300
	285	DB3-285P	10.180	9.850	.475	.645	9.400
288 DB3-288P 10.280 9.950 .475 .645 9.500	288	DB3-288P	10.280	9.950	.475	.645	9.500
291 DB3-291P 10.380 10.050 .475 .645 9.600	291	DB3-291P	10.380	10.050	.475	.645	9.600
294 DB3-294P 10.480 10.150 .475 .645 9.700	294	DB3-294P	10.480	10.150	.475	.645	9.700
297 DB3-397P 10.580 10.250 .475 .645 9.800	297	DB3-397P	10.580	10.250	.475		
300 DB3-300P 10.680 10.350 .475 .645 9.900	300	DB3-300P	10.680	10.350	.475	.645	9.900

^{*}See How to Order, pages 3, 4 and 5

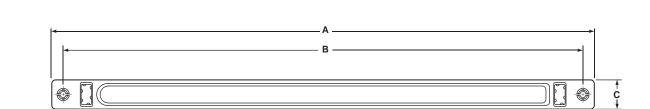
Low Mating Force daughter board connector 4 row contact arrangements

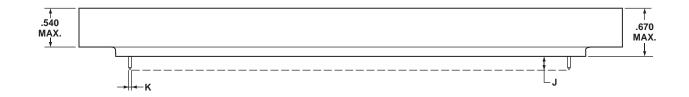
Number of Contacts	DB Number*	A Max.	В	C Max.	H Max.	AA
040	DB4-040P	1.680	1.350	.575	.745	.900
044	DB4-044P	1.780	1.450	.575	.745	1.000
048	DB4-048P	1.880	1.550	.575	.745	1.100
052	DB4-052P	1.980	1.650	.575	.745	1.200
056	DB4-056P	2.080	1.750	.575	.745	1.300
060	DB4-060P	2.180	1.850	.575	.745	1.400
064	DB4-064P	2.280	1.950	.575	.745	1.500
068	DB4-068P	2.380	2.050	.575	.745	1.600
072	DB4-072P	2.480	2.150	.575	.745	1.700
076	DB4-076P	2.580	2.250	.575	.745	1.800
080	DB4-080P	2.680	2.350	.575	.745	1.900
084	DB4-084P	2.780	2.450	.575	.745	2.000
088	DB4-088P	2.880	2.550	.575	.745	2.100
092	DB4-092P	2.980	2.650	.575	.745	2.200
096	DB4-096P	3.080	2.750	.575	.745	2.300
100	DB4-100P	3.180	2.850	.575	.745	2.400
104	DB4-104P	3.280	2.950	.575	.745	2.500
108	DB4-108P	3.380	3.050	.575	.745	2.600
112	DB4-112P	3.480	3.150	.575	.745	2.700
116	DB4-116P	3.580	3.250	.575	.745	2.800
120	DB4-120P	3.680	3.350	.575	.745	2.900
124	DB4-124P	3.780	3.450	.575	.745	3.000
128	DB4-128P	3.880	3.550	.575	.745	3.100
132	DB4-132P	3.980	3.650	.575	.745	3.200
136	DB4-136P	4.080	3.750	.575	.745	3.300
140	DB4-140P	4.180	3.850	.575	.745	3.400
144	DB4-144P	4.280	3.950	.575	.745	3.500
148	DB4-148P	4.380	4.050	.575	.745	3.600
152	DB4-152P	4.480	4.150	.575	.745	3.700
156	DB4-156P	4.580	4.250	.575	.745	3.800
160	DB4-160P	4.680	4.350	.575	.745	3.900
164	DB4-164P	4.780	4.450	.575	.745	4.000
168	DB4-168P	4.880	4.550	.575	.745	4.100
172	DB4-172P	4.980	4.650	.575	.745	4.200
176	DB4-176P	5.080	4.750	.575	.745	4.300
180	DB4-180P	5.180	4.850	.575	.745	4.400
184	DB4-184P	5.280	4.950	.575	.745	4.500
188	DB4-188P	5.380	5.050	.575	.745	4.600
192	DB4-192P	5.480	5.150	.575	.745	4.700
196	DB4-196P	5.580	5.250	.575	.745	4.800
200	DB4-200P	5.680	5.350	.575	.745	4.900
204	DB4-204P	5.780	5.450	.575	.745	5.000
208	DB4-208P	5.880	5.550	.575	.745	5.100
212	DB4-212P	5.980	5.650	.575	.745	5.200
216	DB4-216P	6.080	5.750	.575	.745	5.300
220	DB4-220P	6.180	5.850	.575	.745	5.400
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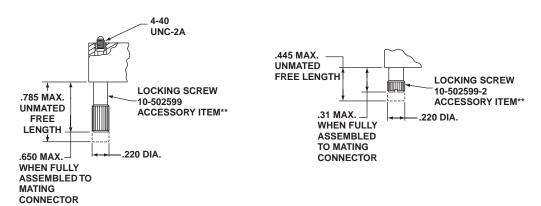
Number of	DB	Α	В	С	Н	AA
Contacts	Number*	Max.		Max.	Max.	~~
224	DB4-224P	6.280	5.950	.575	.745	5.500
228	DB4-228P	6.380	6.050	.575	.745	5.600
232	DB4-232P	6.480	6.150	.575	.745	5.700
236	DB4-236P	6.580	6.250	.575	.745	5.800
240	DB4-240P	6.680	6.350	.575	.745	5.900
244	DB4-244P	6.780	6.450	.575	.745	6.000
248	DB4-248P	6.880	6.550	.575	.745	6.100
252	DB4-252P	6.980	6.650	.575	.745	6.200
256	DB4-256P	7.080	6.750	.575	.745	6.300
260	DB4-260P	7.180	6.850	.575	.745	6.400
264	DB4-264P	7.280	6.950	.575	.745	6.500
268	DB4-268P	7.380	7.050	.575	.745	6.600
272	DB4-272P	7.480	7.150	.575	.745	6.700
276	DB4-276P	7.580	7.250	.575	.745	6.800
280	DB4-280P	7.680	7.350	.575	.745	6.900
284	DB4-284P	7.780	7.450	.575	.745	7.000
288	DB4-288P	7.780	7.550	.575	.745	7.100
292	DB4-292P	7.980	7.650	.575	.745	7.200
296	DB4-296P	8.080	7.750	.575	.745	7.300
300	DB4-300P	8.180	7.850	.575	.745	7.400
304	DB4-304P	8.280	7.950	.575	.745	7.500
308	DB4-308P	8.380	8.050	.575	.745	7.600
312	DB4-312P	8.480	8.150	.575	.745	7.700
316	DB4-316P	8.580	8.250	.575	.745	7.800
320	DB4-320P	8.680	8.350	.575	.745	7.900
324	DB4-324P	8.780	8.450	.575	.745	8.000
328	DB4-328P	8.880	8.550	.575	.745	8.100
332	DB4-332P	8.980	8.650	.575	.745	8.200
336	DB4-336P	9.080	8.750	.575	.745	8.300
340	DB4-340P	9.180	8.850	.575	.745	8.400
344	DB4-344P	9.280	8.950	.575	.745	8.500
348	DB4-348P	9.380	9.050	.575	.745	8.600
352	DB4-352P	9.480	9.150	.575	.745	8.700
356	DB4-356P	9.580	9.250	.575	.745	8.800
360	DB4-360P	9.680	9.350	.575	.745	8.900
364	DB4-364P	9.780	9.450	.575	.745	9.000
368	DB4-368P	9.880	9.550	.575	.745	9.100
372	DB4-372P	9.980	9.650	.575	.745	9.200
376	DB4-376P	10.080	9.750	.575	.745	9.300
380	DB4-380P	10.180	9.850	.575	.745	9.400
384	DB4-384P	10.180	9.950	.575	.745	9.500
388	DB4-388P	10.380	10.050	.575	.745	9.600
392	DB4-392P	10.480	10.050	.575	.745	9.700
396	DB4-396P	10.580	10.150	.575	.745	9.800
400	DB4-3901 DB4-400P	10.680	10.250	.575	.745	9.900
700	357 TOO!	10.000	.0.000	.070	.7 40	5.555

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force input/output connector







MATES WITH MB AND PC SERIES CONNECTORS

When mating with MB or PC connector, a total of .022 inch minimum radial pilot is available for connector body alignment.

All dimensions for reference only.

Crimp contact, wire well size 22D, supplied with IO Connector Series assemblies. Optional noble metal termination plating available. See How to Order, page 5.

Polarization keys are not supplied as part of IO Connector Series assemblies. See Accessories How to Order, page 5 and further

** Locking Screws are not supplied as part of IO Connector Series assemblies. See Accessories How to Order, page 5 and further description, page 29.

	Contact Data						
Description	Termination Style Letter	J ±.020	K ±.002				
tear Removable Crimp Contact	С	N/A	N/A				
lound PCB	Р	.145	.021				
tud Solder	P-(713)	.060	.021				
ermination	P-(709)	.335	.021				

Company of the contract of the

NOTE: Other variations available - see pages 4 and 5, or consult Amphenol Aerospace.

Low Mating Force input/output connector 2 row contact arrangements

Number of Contacts	IO Number*	A Max.	В	C Max.
			1.075	
020 022	IO2-020(*)	2.295 2.395	1.975	.390
	IO2-022(*)		2.075	
024	IO2-024(*)	2.495	2.175	.390
026	IO2-026(*)	2.595	2.275	.390
028	IO2-028(*)	2.695	2.375	.390
030	IO2-030(*) IO2-032(*)	2.795	2.475 2.575	.390
032 034		2.895 2.995		.390
	IO2-034(*)		2.675	
036	IO2-036(*) IO2-038(*)	3.095	2.775	.390
038		3.195	2.875	.390
040	IO2-040(*)	3.295	2.975	.390
042	IO2-042(*)	3.395	3.075	.390
044	IO2-044(*)	3.495	3.175	.390
046	IO2-046(*)	3.595	3.275	.390
048	IO2-048(*)	3.695	3.375	.390
050	IO2-050(*)	3.795	3.475	.390
052	IO2-052(*)	3.895	3.575	.390
054	IO2-054(*)	3.995	3.675	.390
056	IO2-056(*)	4.095	3.775	.390
058	IO2-058(*)	4.195	3.875	.390
060	IO2-060(*)	4.295	3.975	.390
062	IO2-062(*)	4.395	4.075	.390
064	IO2-064(*)	4.495	4.175	.390
066	IO2-066(*)	4.595	4.275	.390
068	IO2-068(*)	4.695	4.375	.390
070	IO2-070(*)	4.795	4.475	.390
072	IO2-072(*)	4.895	4.575	.390
074	IO2-074(*)	4.995	4.675	.390
076	IO2-076(*)	5.095	4.775	.390
078	IO2-078(*)	5.195	4.875	.390
080	IO2-080(*)	5.295	4.975	.390
082	IO2-082(*)	5.395	5.075	.390
084	IO2-084(*)	5.495	5.175	.390
086	IO2-086(*)	5.595	5.275	.390
088	IO2-088(*)	5.695	5.375	.390
090	IO2-090(*)	5.795	5.475	.390
092	IO2-092(*)	5.895	5.575	.390
094	IO2-094(*)	5.995	5.675	.390
096	IO2-096(*)	6.095	5.775	.390
098	IO2-098(*)	6.195	5.875	.390
100	IO2-100(*)	6.295	5.975	.390
102	IO2-102(*)	6.395	6.075	.390
104	IO2-104(*)	6.495	6.175	.390
106	IO2-106(*)	6.595	6.275	.390
108	IO2-108(*)	6.695	6.375	.390
110	IO2-110(*)	6.795	6.475	.390

Number	10	^	В	6
of Contacts	IO Number*	A Max.	В	C Max.
112	IO2-112(*)	6.895	6.575	.390
114	IO2-114(*)	6.995	6.675	.390
116	IO2-116(*)	7.095	6.775	.390
118	IO2-118(*)	7.195	6.875	.390
120	IO2-120(*)	7.295	6.975	.390
122	IO2-122(*)	7.395	7.075	.390
124	IO2-124(*)	7.495	7.175	.390
126	IO2-126(*)	7.595	7.275	.390
128	IO2-128(*)	7.695	7.375	.390
130	IO2-130(*)	7.795	7.475	.390
132	IO2-132(*)	7.895	7.575	.390
134	IO2-134(*)	7.995	7.675	.390
136	IO2-136(*)	8.095	7.775	.390
138	IO2-138(*)	8.195	7.875	.390
140	IO2-140(*)	8.295	7.975	.390
142	IO2-142(*)	8.395	8.075	.390
144	IO2-144(*)	8.495	8.175	.390
146	IO2-146(*)	8.595	8.275	.390
148	IO2-148(*)	8.695	8.375	.390
150	IO2-150(*)	8.795	8.475	.390
152	IO2-152(*)	8.895	8.575	.390
154	IO2-154(*)	8.995	8.675	.390
156	IO2-156(*)	9.095	8.775	.390
158	IO2-158)*)	9.195	8.875	.390
160	IO2-160(*)	9.295	8.975	.390
162	IO2-162(*)	9.395	9.075	.390
164	IO2-164(*)	9.495	9.175	.390
166	IO2-166(*)	9.595	9.275	.390
168	IO2-168(*)	9.695	9.375	.390
170	IO2-170(*)	9.795	9.475	.390
172	IO2-172(*)	9.895	9.575	.390
174	IO2-174(*)	9.995	9.675	.390
176	IO2-176(*)	10.095	9.775	.390
178	IO2-178(*)	10.195	9.875	.390
180	IO2-180(*)	10.295	9.975	.390
182	IO2-182(*)	10.395	10.075	.390
184	IO2-184(*)	10.495	10.175	.390
186	IO2-186(*)	10.595	10.275	.390
188	IO2-188(*)	10.695	10.375	.390
190	IO2-190(*)	10.795	10.475	.390
192	IO2-192(*)	10.895	10.575	.390
194	IO2-194(*)	10.995	10.675	.390
196	IO2-196(*)	11.095	10.775	.390
198	IO2-198(*)	11.195	10.875	.390
200	IO2-200(*)	11.295	10.975	.390

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force input/output connector 3 row contact arrangements

Number of	. 10	A	В	, C
Contacts	Number*	Max.		Max
030	IO3-030(*)	2.295	1.975	.490
033	IO3-033(*)	2.395	2.075	.490
036	IO3-036(*)	2.495	2.175	.490
039	IO3-039(*)	2.595	2.275	.490
042	IO3-042(*)	2.695	2.375	.490
045	IO3-045(*)	2.795	2.475	.490
048	IO3-048(*)	2.894	2.575	.490
051	IO3-051(*)	2.995	2.675	.490
054	IO3-054(*)	3.095	2.775	.490
057	IO3-057(*)	3.195	2.875	.490
060	IO3-060(*)	3.295	2.975	.490
063	IO3-063(*)	3.395	3.075	.490
066	IO3-066(*)	3.495	3.175	.490
069	IO3-069(*)	3.595	3.275	.490
072	IO3-072(*)	3.695	3.375	.490
075	IO3-075(*)	3.795	3.475	.490
078	IO3-078(*)	3.895	3.575	.490
081	IO3-081(*)	3.995	3.675	.490
084	IO3-084(*)	4.095	3.775	.490
087	IO3-087(*)	4.195	3.875	.490
090	IO3-090(*)	4.295	3.975	.490
093	IO3-093(*)	4.395	4.075	.490
096	IO3-096(*)	4.495	4.175	.490
099	IO3-099(*)	4.595	4.275	.490
102	IO3-102(*)	4.695	4.375	.490
105	IO3-105(*)	4.795	4.475	.490
108	IO3-108(*)	4.895	4.575	.490
111	IO3-111(*)	4.995	4.675	.490
114	IO3-114(*)	5.095	4.775	.490
117	IO3-117(*)	5.195	4.875	.490
120	IO3-120(*)	5.295	4.975	.490
123	IO3-123(*)	5.395	5.075	.490
126	IO3-126(*)	5.495	5.175	.490
129	IO3-129(*)	5.595	5.275	.490
132	IO3-132(*)	5.695	5.375	.490
135	IO3-135(*)	5.795	5.475	.490
138	IO3-138(*)	5.895	5.575	.490
141	IO3-141(*)	5.995	5.675	.490
144	IO3-144(*)	6.095	5.775	.490
147	IO3-144()	6.195	5.875	.490
150	IO3-147()	6.295	5.975	.490
153	IO3-150()	6.395	6.075	.490
156	IO3-155(*)	6.495	6.075	.490
159	IO3-150()	6.595	6.175	.490
				.490
162	IO3-162(*)	6.695	6.375	.490

		1		
Number of	10	Α	В	С
Contacts	Number*	Max.		Max.
168	IO3-168(*)	6.895	6.575	.490
171	IO3-171(*)	6.995	6.675	.490
174	IO3-174(*)	7.095	6.775	.490
177	IO3-177(*)	7.195	6.875	.490
180	IO3-180(*)	7.295	6.975	.490
183	IO3-183(*)	7.395	7.075	.490
186	IO3-186(*)	7.495	7.175	.490
189	IO3-189(*)	7.595	7.275	.490
192	IO3-192(*)	7.695	7.375	.490
195	IO3-195(*)	7.795	7.475	.490
198	IO3-198(*)	7.895	7.575	.490
201	IO3-201(*)	7.995	7.675	.490
204	IO3-204(*)	8.095	7.775	.490
207	IO3-207(*)	8.195	7.875	.490
210	IO3-210(*)	8.295	7.975	.490
213	IO3-213(*)	8.395	8.075	.490
216	IO3-216(*)	8.495	8.175	.490
219	IO3-219(*)	8.595	8.275	.490
222	IO3-222(*)	8.695	8.375	.490
225	IO3-225(*)	8.795	8.475	.490
228	IO3-228(*)	8.895	8.575	.490
231	IO3-231(*)	8.995	8.675	.490
234	IO3-234(*)	9.095	8.775	.490
237	IO3-237(*)	9.195	8.875	.490
240	IO3-240(*)	9.295	8.975	.490
243	IO3-243(*)	9.395	9.075	.490
246	IO3-246(*)	9.495	9.175	.490
249	IO3-249(*)	9.595	9.275	.490
252	IO3-252(*)	9.695	9.375	.490
255	IO3-255(*)	9.795	9.475	.490
258	IO3-258(*)	9.895	9.575	.490
261	IO3-261(*)	9.995	9.675	.490
264	IO3-264(*)	10.095	9.775	.490
267	IO3-267(*)	10.195	9.875	.490
270	IO3-270(*)	10.295	9.975	.490
273	IO3-273(*)	10.395	10.075	.490
276	IO3-276(*)	10.495	10.175	.490
279	IO3-279(*)	10.595	10.275	.490
282	IO3-282(*)	10.695	10.375	.490
285	IO3-285(*)	10.795	10.475	.490
288	IO3-288(*)	10.895	10.575	.490
291	IO3-291(*)	10.995	10.675	.490
294	IO3-294(*)	11.095	10.775	.490
297	IO3-297(*)	11.195	10.875	.490
300	IO3-300(*)	11.295	10.975	.490

^{*}See How to Order, pages 3, 4 and 5

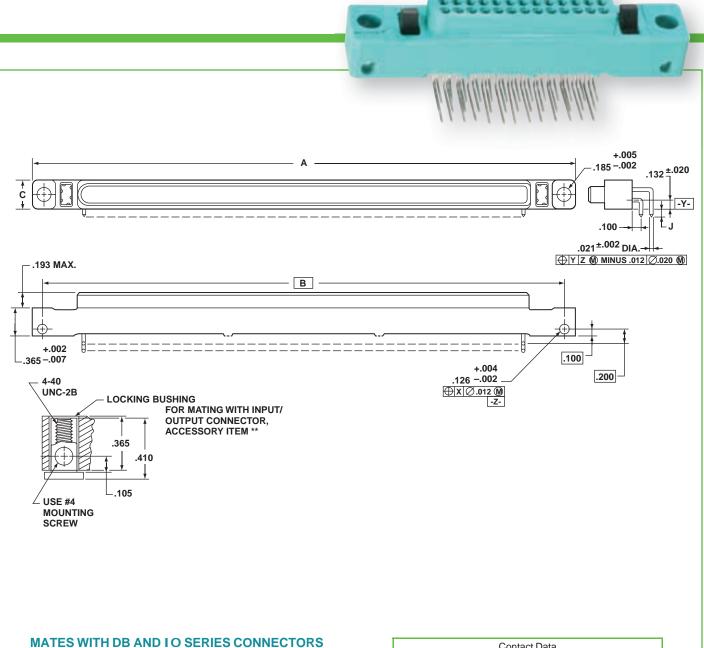
Low Mating Force input/output connector 4 row contact arrangements

Number of Contacts	IO Number*	A Max.	В	C Max.
040	IO4-040(*)	2.295	1.975	.590
044	IO4-044(*)	2.395	2.075	.590
048	IO4-048(*)	2.495	2.175	.590
052	IO4-052(*)	2.595	2.275	.590
056	IO4-056(*)	2.695	2.375	.590
060	IO4-060(*)	2.795	2.475	.590
064	IO4-064(*)	2.895	2.575	.590
068	IO4-068(*)	2.995	2.675	.590
072	IO4-072(*)	3.095	2.775	.590
076	IO4-076(*)	3.195	2.875	.590
080	IO4-080(*)	3.295	2.975	.590
084	IO4-084(*)	3.395	3.075	.590
088	IO4-088(*)	3.495	3.175	.590
092	IO4-092(*)	3.595	3.275	.590
096	IO4-096(*)	3.695	3.375	.590
100	IO4-090()	3.795	3.475	.590
104	IO4-104(*)	3.895	3.575	.590
104	IO4-104()	3.995	3.675	.590
112	,	4.095		.590
116	IO4-112(*)	4.195	3.775 3.875	
	IO4-116(*)	4.195		.590
120	IO4-120(*)		3.975	.590
124	IO4-124(*)	4.395	4.075	.590
128	IO4-128(*)	4.495	4.175	.590
132	IO4-132(*)	4.595	4.275	.590
136	IO4-136(*)	4.695	4.375	.590
140	IO4-140(*)	4.795	4.475	.590
144	IO4-144(*)	4.895	4.575	.590
148	IO4-148(*)	4.995	4.675	.590
152	IO4-152(*)	5.095	4.775	.590
156	IO4-156(*)	5.195	4.875	.590
160	IO4-160(*)	5.295	4.975	.590
164	IO4-164(*)	5.395	5.075	.590
168	IO4-168(*)	5.495	5.175	.590
172	IO4-172(*)	5.595	5.275	.590
176	IO4-176(*)	5.695	5.375	.590
180	IO4-180(*)	5.795	5.475	.590
184	IO4-184(*)	5.895	5.575	.590
188	IO4-188(*)	5.995	5.675	.590
192	IO4-192(*)	6.095	5.775	.590
196	IO4-196(*)	6.195	5.875	.590
200	IO4-200(*)	6.295	5.975	.590
204	IO4-204(*)	6.395	6.075	.590
208	IO4-208(*)	6.495	6.175	.590
212	IO4-212(*)	6.595	6.275	.590
216	IO4-216(*)	6.695	6.375	.590
220	IO4-220(*)	6.795	6.475	.590

Number of	10	А	В	С
Contacts	Number*	Max.	В	Max.
224	IO4-224(*)	6.895	6.575	.590
228	IO4-228(*)	6.995	6.675	.590
232	IO4-232(*)	7.095		.590
236	IO4-236(*)	7.095	6.775	.590
	` '		6.875	
240	IO4-240(*)	7.295	6.975	.590
244	IO4-244(*)	7.395	7.075	.590
248	IO4-248(*)	7.495	7.175	.590
252	IO4-252(*)	7.595	7.275	.590
256	IO4-256(*)	7.695	7.375	.590
260	IO4-260(*)	7.795	7.475	.590
264	IO4-264(*)	7.895	7.575	.590
268	IO4-268(*)	7.995	7.675	.590
272	IO4-272(*)	8.095	7.775	.590
276	IO4-276(*)	8.195	7.875	.590
280	IO4-280(*)	8.295	7.975	.590
284	IO4-284(*)	8.395	8.075	.590
288	IO4-288(*)	8.495	8.175	.590
292	IO4-292(*)	8.595	8.275	.590
296	IO4-296(*)	8.695	8.375	.590
300	IO4-300(*)	8.795	8.475	.590
304	IO4-304(*)	8.895	8.575	.590
308	IO4-308(*)	8.995	8.675	.590
312	IO4-312(*)	9.095	8.775	.590
316	IO4-316(*)	9.195	8.875	.590
320	IO4-320(*)	9.295	8.975	.590
324	IO4-324(*)	9.395	9.075	.590
328	IO4-328(*)	9.496	9.175	.590
332	IO4-332(*)	9.595	9.275	.590
336	IO4-336(*)	9.695	9.375	.590
340	IO4-340(*)	9.795	9.475	.590
344	IO4-344(*)	9.895	9.575	.590
348	IO4-348(*)	9.995	9.675	.590
352	IO4-352(*)	10.095	9.775	.590
356	IO4-356(*)	10.195	9.875	.590
360	IO4-360(*)	10.295	9.975	.590
364	IO4-364(*)	10.395	10.075	.590
368	IO4.368(*)	10.495	10.175	.590
372	IO4-372(*)	10.595	10.275	.590
376	IO4-376(*)	10.695	10.375	.590
380	IO4-380(*)	10.795	10.475	.590
384	IO4-384(*)	10.895	10.575	.590
388	IO4-388(*)	10.995	10.675	.590
392	IO4-392(*)	11.095	10.775	.590
396	IO4-396(*)	11.195	10.775	.590
400	IO4-400(*)	11.295	10.975	.590
400	104-400()	11.233	10.873	.080

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force PC connector



When mating with DB connector, a total of .035 inch minimum radial pilot is available for connector body alignment.

All dimensions for reference only.

Polarization keys are not supplied as part of PC Connector Series assemblies. See Accessories How to Order, page 5 and further

** Locking busings are not supplied as part of PC Connector Series assembles. See Accessories How to Order, page 5, and further description, page 28.

Designates Basic Dimension

Contact Data						
Description	Termination Style Letter	Arrangement Row	J +.035 025			
Round PCB	Р	Α	.095			
	Р	В	.095			
	Р	С	.095			
Stud, 90°	Р	D	.095			
Solder Termination	P-(714)	Α	.150			
	P-(714)	В	.150			
	P-(714)	С	.150			
	P-(714)	D	.150			
Solder	P P P P-(714) P-(714) P-(714)	B C D A B	.095 .095 .095 .095 .095 .150 .150			

NOTE: Other variations available - see pages 4 and 5, or consult Amphenol Aerospace.

Low Mating Force PC connector

2 row contact arrangements

Niconala a u				
Number of	PC	Α	В	С
Contacts	Number*	Max.	_	Max.
020	PC2-020P	2.295	1.975	.390
022	PC2-022P	2.395	2.075	.390
024	PC2-024P	2.495	2.175	.390
026	PC2-026P	2.595	2.275	.390
028	PC2-028P	2.695	2.375	.390
030	PC2-030P	2.795	2.475	.390
032	PC2-032P	2.895	2.575	.390
034	PC2-034P	2.995	2.675	.390
036	PC2-036P	3.095	2.775	.390
038	PC2-038P	3.195	2.875	.390
040	PC2-040P	3.295	2.975	.390
042	PC2-042P	3.395	3.075	.390
044	PC2-044P	3.495	3.175	.390
046	PC2-046P	3.595	3.275	.390
048	PC2-048P	3.695	3.375	.390
050	PC2-050P	3.795	3.475	.390
052	PC2-052P	3.895	3.575	.390
054	PC2-054P	3.995	3.675	.390
056	PC2-054P	4.095	3.775	.390
058	PC2-058P	4.195	3.875	.390
060	PC2-060P	4.195	3.975	.390
062	PC2-060P	4.295	4.075	.390
064	PC2-062P	4.495	4.075	.390
066	PC2-066P	4.595	4.275	.390
068	PC2-068P	4.695	4.375	.390
070	PC2-070P	4.795	4.475	.390
072	PC2-072P	4.895	4.575	.390
074	PC2-074P	4.995	4.675	.390
076	PC2-076P	5.095	4.775	.390
078	PC2-078P	5.195	4.875	.390
080	PC2-080P	5.295	4.975	.390
082	PC2-082P	5.395	5.075	.390
084	PC2-084P	5.495	5.175	.390
086	PC2-086P	5.595	5.275	.390
088	PC2-088P	5.695	5.375	.390
090	PC2-090P	5.795	5.475	.390
092	PC2-092P	5.895	5.575	.390
094	PC2-094P	5.995	5.675	.390
096	PC2-096P	6.095	5.775	.390
098	PC2-098P	6.195	5.875	.390
100	PC2-100P	6.295	5.975	.390
102	PC2-102P	6.395	6.075	.390
104	PC2-104P	6.495	6.175	.390
106	PC2-106P	6.595	6.275	.390
108	PC2-108P	6.695	6.375	.390
110	PC2-110P	6.795	6.475	.390

	1			
Number of	PC	А	В	С
Contacts	Number*	Max.		Max.
112	PC2-112P	6.895	6.575	.390
114	PC2-114P	6.995	6.675	.390
116	PC2-116P	7.095	6.775	.390
118	PC2-118P	7.195	6.875	.390
120	PC2-120P	7.295	6.975	.390
122	PC2-122P	7.395	7.075	.390
124	PC2-124P	7.495	7.175	.390
126	PC2-126P	7.595	7.275	.390
128	PC2-128P	7.695	7.375	.390
130	PC2-130P	7.795	7.475	.390
132	PC2-132P	7.895	7.575	.390
134	PC2-134P	7.995	7.675	.390
136	PC2-136P	8.095	7.775	.390
138	PC2-138P	8.195	7.875	.390
140	PC2-140P	8.295	7.975	.390
142	PC2-142P	8.395	8.075	.390
144	PC2-144P	8.495	8.175	.390
146	PC2-146P	8.595	8.275	.390
148	PC2-148P	8.695	8.375	.390
150	PC2-150P	8.795	8.475	.390
152	PC2-152P	8.895	8.575	.390
154	PC2-154P	8.995	8.675	.390
156	PC2-156P	9.095	8.775	.390
158	PC2-158P	9.195	8.875	.390
160	PC2-160P	9.295	8.975	.390
162	PC2-162P	9.395	9.075	.390
164	PC2-164P	9.495	9.175	.390
166	PC2-166P	9.595	9.275	.390
168	PC2-168P	9.695	9.375	.390
170	PC2-170P	9.795	9.475	.390
172	PC2-172P	9.895	9.575	.390
174	PC2-174P	9.995	9.675	.390
176	PC2-176P	10.095	9.775	.390
178	PC2-178P	10.195	9.875	.390
180	PC2-180P	10.295	9.975	.390
182	PC2-182P	10.395	10.075	.390
184	PC2-184P	10.495	10.175	.390
186	PC2-186P	10.595	10.275	.390
188	PC2-188P	10.695	10.375	.390
190	PC2-190P	10.795	10.475	.390
192	PC2-192P	10.895	10.575	.390
194	PC2-194P	10.995	10.675	.390
196	PC2-196P	11.095	10.775	.390
198	PC2-198P	11.195	10.875	.390
200	PC2-200P	11.295	10.975	.390

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force PC connector 3 row contact arrangements

Number of	PC	A	В	С
Contacts	Number*	Max.		Max
030	PC3-030P	2.295	1.975	.49
033	PC3-033P	2.395	2.075	.49
036	PC3-036P	2.495	2.175	.49
039	PC3-039P	2.595	2.275	.49
042	PC3-042P	2.695	2.375	.49
045	PC3-045P	2.795	2.475	.49
048	PC3-048P	2.895	2.575	.49
051	PC3-051P	2.995	2.675	.49
054	PC3-054P	3.095	2.775	.49
057	PC3-057P	3.195	2.875	.49
060	PC3-060P	3.295	2.975	.49
063	PC3-063P	3.395	3.075	.49
066	PC3-066P	3.495	3.175	.49
069	PC3-069P	3.595	3.275	.49
072	PC3-072P	3.695	3.375	.49
075	PC3-075P	3.795	3.475	.49
078	PC3-078P	3.895	3.575	.49
081	PC3-081P	3.995	3.675	.49
084	PC3-084P	4.095	3.775	.49
087	PC3-087P	4.195	3.875	.49
090	PC3-090P	4.295	3.975	.49
093	PC3-093P	4.395	4.075	.49
096	PC3-096P	4.495	4.175	.49
099	PC3-099P	4.595	4.275	.49
102	PC3-102P	4.695	4.375	.49
105	PC3-105P	4.795	4.475	.49
108	PC3-108P	4.895	4.575	.49
111	PC3-111P	4.995	4.675	.49
114	PC3-114P	5.095	4.775	.49
117	PC3-117P	5.195	4.875	.49
120	PC3-120P	5.295	4.975	.49
123	PC3-123P	5.395	5.075	.49
126	PC3-126P	5.495	5.175	.49
129	PC3-129P	5.595	5.275	.49
132	PC3-132P	5.695	5.375	.49
135	PC3-135P	5.795	5.475	.49
138	PC3-138P	5.895	5.575	.49
141	PC3-141P	5.995	5.675	.49
144	PC3-144P	6.095	5.775	.49
147	PC3-147P	6.195	5.875	.49
150	PC3-150P	6.295	5.975	.49
153	PC3-153P	6.395	6.075	.49
156	PC3-156P	6.495	6.175	.49
159	PC3-150P	6.595	6.275	.49
				.49
162	PC3-162P	6.695	6.375	.49

Number				
Number of Contacts	PC Number*	A Max.	В	C Max.
168	PC3-168P	6.895	6.575	.490
171	PC3-171P	6.995	6.675	.490
174	PC3-174P	7.095	6.775	.490
177	PC3-1741	7.095	6.875	.490
180	PC3-1771	7.195	6.975	.490
183	PC3-183P	7.395	7.075	.490
186	PC3-186P	7.395	7.075	.490
189	PC3-189P	7.495	7.175	.490
192	PC3-192P	7.695	7.375	.490
195	PC3-192F	7.795	7.475	.490
198	PC3-193P	7.795	7.575	.490
	PC3-198F			
201	PC3-201P PC3-204P	7.995	7.675	.490
204		8.095	7.775	.490
207	PC3-207P	8.195	7.875	.490
210	PC3-210P	8.295	7.975	.490
213	PC3-213P	8.395	8.075	.490
216	PC3-216P	8.495	8.175	.490
219	PC3-219P	8.595	8.275	.490
222	PC3-222P	8.695	8.375	.490
225	PC3-225P	8.795	8.475	.490
228	PC3-228P	8.895	8.575	.490
231	PC3-231P	8.995	8.675	.490
234	PC3-234P	9.095	8.775	.490
237	PC3-237P	9.195	8.875	.490
240	PC3-240P	9.295	8.975	.490
243	PC3-243P	9.395	9.075	.490
246	PC3-246P	9.495	9.175	.490
249	PC3-249P	9.595	9.275	.490
252	PC3-252P	9.695	9.375	.490
255	PC3-255P	9.795	9.475	.490
258	PC3-258P	9.895	9.575	.490
261	PC3-261P	9.995	9.675	.490
264	PC3-264P	10.095	9.775	.490
267	PC3-267P	10.195	9.875	.490
270	PC3-270P	10.295	9.975	.490
273	PC3-273P	10.395	10.075	.490
276	PC3-276P	10.495	10.175	.490
279	PC3-279P	10.595	10.275	.490
282	PC3-282P	10.695	10.375	.490
285	PC3-285P	10.795	10.475	.490
288	PC3-288P	10.895	10.575	.490
291	PC3-291P	10.995	10.675	.490
294	PC3-294P	11.095	10.775	.490
279	PC3-297P	11.195	10.875	.490
300	PC3-300P	11.295	10.975	.490

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force PC connector 4 row contact arrangements

Number of Contacts	PC Number*	A Max.	В	C Max.
040	PC4-040P	2.295	1.975	.590
040	PC4-040P	2.395	2.075	.590
044	PC4-0441	2.495	2.175	.590
052	PC4-048F	2.495	2.175	.590
052	PC4-052F	2.695	2.275	.590
060	PC4-050P	2.795	2.475	.590
060	PC4-060P	2.795	2.475	.590
068	PC4-064P	2.995	2.675	.590
072	PC4-008F	3.095	2.775	.590
072	PC4-072P	3.195	2.775	.590
080	PC4-076P	3.195	2.075	.590
	PC4-080P			
084		3.395	3.075	.590
088	PC4-088P	3.495	3.175	.590
092	PC4-092P	3.595	3.275	.590
096	PC4-096P	3.695	3.375	.590
100	PC4-100P	3.795	3.475	.590
104	PC4-104P	3.895	3.575	.590
108	PC4-108P	3.995	3.675	.590
112	PC4-112P	4.095	3.775	.590
116	PC4-116P	4.195	3.875	.590
120	PC4-120P	4.295	3.975	.590
124	PC4-124P	4.395	4.075	.590
128	PC4-128P	4.495	4.175	.590
132	PC4-132P	4.595	4.275	.590
136	PC4-136P	4.695	4.375	.590
140	PC4-140P	4.795	4.475	.590
144	PC4-144P	4.895	4.575	.590
148	PC4-148P	4.995	4.675	.590
152	PC4-152P	5.095	4.775	.590
156	PC4-156P	5.195	4.875	.590
160	PC4-160P	5.295	4.975	.590
164	PC4-164P	5.395	5.075	.590
168	PC4-168P	5.495	5.175	.590
172	PC4-172P	5.595	5.275	.590
176	PC4-176P	5.695	5.375	.590
180	PC4-180P	5.795	5.475	.590
184	PC4-184P	5.895	5.575	.590
188	PC4-188P	5.995	5.675	.590
192	PC4-192P	6.095	5.775	.590
196	PC4-196P	6.195	5.875	.590
200	PC4-200P	6.295	5.975	.590
204	PC4-204P	6.395	6.075	.590
208	PC4-208P	6.495	6.175	.590
212	PC4-212P	6.595	6.275	.590
216	PC4-216P	6.695	6.375	.590
220	PC4-220P	6.795	6.475	.590

Number of	PC	А	В	С
Contacts	Number*	Max.		Max.
224	PC4-224P	6.895	6.575	.590
228	PC4-228P	6.995	6.675	.590
232	PC4-232P	7.095	6.775	.590
236	PC4-236P	7.195	6.875	.590
240	PC4-240P	7.295	6.975	.590
244	PC4-244P	7.395	7.075	.590
248	PC4-248P	7.495	7.175	.590
252	PC4-252P	7.595	7.275	.590
256	PC4-256P	7.695	7.375	.590
260	PC4-260P	7.795	7.475	.590
264	PC4-264P	7.895	7.575	.590
268	PC4-268P	7.995	7.675	.590
272	PC4-272P	8.095	7.775	.590
276	PC4-276P	8.195	7.875	.590
280	PC4-280P	8.295	7.975	.590
284	PC4-284P	8.395	8.075	.590
288	PC4-288P	8.495	8.175	.590
292	PC4-292P	8.595	8.275	.590
296	PC4-296P	8.695	8.375	.590
300	PC4-300P	8.795	8.475	.590
304	PC4-304P	8.895	8.575	.590
308	PC4-308P	8.995	8.675	.590
312	PC4-312P	9.095	8.775	.590
316	PC4-316P	9.195	8.875	.590
320	PC4-320P	9.295	8.975	.590
324	PC4-324P	9.395	9.075	.590
328	PC4-328P	9.495	9.175	.590
332	PC4-332P	9.595	9.275	.590
336	PC4-336P	9.695	9.375	.590
340	PC4-340P	9.795	9.475	.590
344	PC4-344P	9.895	9.575	.590
348	PC4-348P	9.995	9.675	.590
352	PC4-352P	10.095	9.775	.590
356	PC4-356P	10.195	9.875	.590
360	PC4-360P	10.295	9.975	.590
364	PC4-364P	10.395	10.075	.590
368	PC4-368P	10.495	10.175	.590
372	PC4-372P	10.595	10.275	.590
376	PC4-376P	10.695	10.375	.590
380	PC4-380P	10.795	10.475	.590
384	PC4-384P	10.895	10.575	.590
388	PC4-388P	10.995	10.675	.590
392	PC4-392P	11.095	10.775	.590
396	PC4-396P	11.195	10.875	.590
400	PC4-400P	11.295	10.975	.590

^{*}See How to Order, pages 3, 4 and 5

Low Mating Force Connector Accessories

polarization keys

General information follows on this page and the next three pages for assembling connector accessories with Amphenol® Low Mating Force B³ Brush Contact Connectors.* Provided are suggestions for proper connector installation that will help to maintain connector straightness after equipment assembly.

Low mating force connector bodies are intentionally designed to be non-rigid to facilitate application variables such as compliance to printed circuit boards, fixtures and card cages, vibration and shock exposure, thermal excursions and differential expansion characteristics. Users may employ installation procedures that will provide mating surface straightness of these non-rigid bodies within 0.010 inch to ensure maximum connector performance.

Generally, no external board support structures are required with B³ brush contact connectors as long as the mounting surface offers sufficient rigidity. However, longer installations should consider external support to prevent excessive flexing of the connector/printed circuit board assembly.

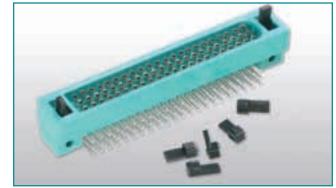
POLARIZATION KEYS

Polarization Keys, 10-285422-2 are accessory items, ordered separately for MB, DB, IO and PC Series Low Mating Force Connectors. If used, 4 keys are required per connector half. See page 5 for ordering information.

Examples at right show key locations for mating connector halves. The number or letter designations on all mating connectors are arranged so that the projecting keys on one relate to the same numbers or letters on the other. With the numbers or letters matching, the connector will mate.

TYPICAL CODE SEQUENCE

B, H-1, 5 4 Different possibilities at each position = 256



DAUGHTER BOARD CONNECTOR WITH POLARIZATION KEYS

* Installation Instructions for B³ Low Mating Force Connectors had formerly been covered in publication L-1220. This has been discontinued and all installation instructions are covered here on pages 24-29.

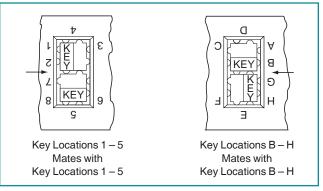
CONNECTOR ACCESSORIES THAT ARE USED WITH B³ BRUSH CONNECTORS INCLUDE:

- Locking screws for I/O connector mounting to board
- Locking/mounting bushings:
- for PC connector mounting to board or mating to I/O connector
- for MB connector mounting to board or mating to I/O connector
- Polarization keys for each style connector provide up to 256 different key locations for alternate keying
- Test Probe kits for ensuring that contacts are properly wired within a connector and to prevent damage to brush contacts during probing.

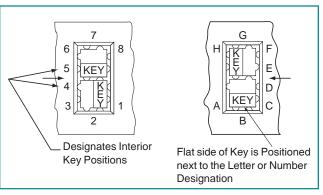
For How to Order Accessories see page 5.

B³ brush PC style connectors are shipped with PC tail combs that not only protect the tails during shipment, but aid the person assembling the connectors to boards to align the contacts.

Refer to page 2 of this catalog for illustration of the connector styles and how they mate.



KEY LOCATIONS MOTHER BOARD OR PC CONNECTORS



KEY LOCATIONS
DAUGHTER BOARD OR INPUT/OUTPUT CONNECTORS

Low Mating Force Connector Accessories

test probe kit

In order to insure that contacts are properly wired within a connector, a Test Probe Kit is needed (Part number to order is 11-10400-22). This kit is especially designed to prevent damage to brush contacts during probing. It consists of a plastic holder, insert, and two contacts, usable for either Mother Board or Daughter Board applications. It is recommended that the user buy two kits, if using connectors of two genders. The kits are not convertible after assembly.

Instructions:

DB-IO Test Probe -

Slide the insert back over the wire and crimp contact on. Follow crimping procedure below. Then snap the insert and contact assembly into the holder.

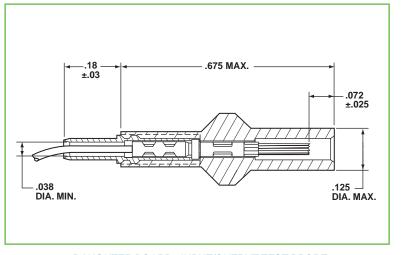
MB-PC Test probe -

Slide holder over wire and then crimp contact. Follow crimping procedure below. Slide the insert on the contact and seat it against the shoulder. Slide the holder forward and snap it onto the insert.

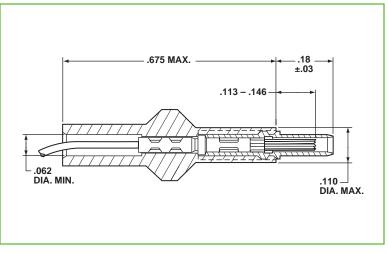
Crimping Procedure: Using accepted industry procedures, strip wire end to be terminated 1/8 to 5/32 inch. Care should be taken not to nick wire strands. Assemble the M22520/2-01 crimp tool and the M22520/2-27 positioner, and place tool selector in correct setting for wire size. Selected wire size must not have an insulation diameter more than .062 for MB-PC and not more than .038 for DB/IO.

AWG 22 24 26 28 SEL 5 4 3 2

Insert stripped wire end into contact wire well.
Strands should be visible in wire well inspection hole. Bottom contact and wire assembly in positioner, and close handles of crimp tool to complete crimp. Handles will not open unless full crimping cycle has been completed.



DAUGHTER BOARD - INPUT/OUTPUT TEST PROBE



MOTHER BOARD - PC TEST PROBE

BRUSH CONNECTORS USER APPLICATION INFORMATION

The Brush B³ connector is a highly sophisticated, innovative low mating force device designed to provide a multiplicity or highly redundant number of contact sites for high density, high performance applications. Contact resistance is stable and low, approximately 1/3 lower than the most widely available contemporary two piece printed circuit card connector type. To maximize the B³ connector capability and assure the greatest potential reliability, several guidelines should be followed.

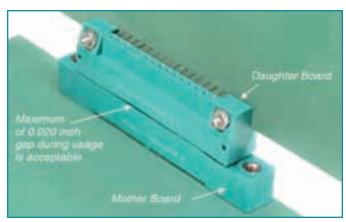
Ideally, connectors should be fully mated and not used as a packaging system tolerance absorber. Full mating occurs when the two molded thermoplastic contact housings (connector bodies) touch, plug skirt to receptacle shoulder over the entire length of the connector. However, manufacturing tolerances and user installation procedures must be considered and can be expected to prevent the "ideal" situation.

Connector bodies were intentionally designed to be non-rigid as permanent flexibility is necessary to allow compliance to user printed circuit cards, fixtures and card cages. Vibration and shock exposure, thermal excursions, contact repairability, and differential expansion characteristics further dictate the desirability of flexible connectors.

Amphenol drawing call-outs of part flatness to a 0.010 inch FIM (Total Indicator Reading - Full Indicator Movement) over the mating surface length is to be interpreted as in an "as used" condition. Rigid mounting of Mother Board (plug) parts to frames, multi-layer printed circuit boards or back panels should consider the need for the 0.010 inch maximum condition after soldering or solderless wrapping procedures.

Normal Mother Board parts in an unrestrained, unused condition may exceed the "as used" 0.010 inch reading at normal ambient or storage environments. Thermal cycling may further aggravate or adjust the condition. These parts present a profile from flat to a "smile" appearance when viewed from the side with the mating surface uppermost. (For example, see photo above). Normal positioning of this part on the Mother Board with slight restraint through use of mounting hardware or standard mounting bolts will automatically allow part compliance to the flatness condition of the board. Slight restraint is urged to allow for differential thermal expansion compensation during preheating and soldering operations. Final torquing or permanent fastening should be effected after cool down and thermal neutralization. Normal solderless wrapping procedures could ignore the differential expansion consideration.

Daughter Board connectors present the same flat to "smile" profile in a free state with the mating surface downward. The relief shelf can be used as a reference or guide when used with a straight edged Daughter Board or printed circuit board "page". Once proper positioning is verified and contact tails are solder fixed to the plated through holes, straightness will be permanently retained.



DAUGHTER BOARD AND MOTHER BOARD FULLY MATED CONDITION

Users are urged to monitor the quality of connector installation to optimize the mating of connectors.

During usage and when mated the worst case condition of the "as used" 0.010 inch maximum reading of both the plug and receptacle could cause a maximum gap between plug and receptacle moldings of 0.020 inch. This condition is well within the B³ product mated performance goals as our minimum effective electrical contact engagement has greater than a 100% safety factor. Users are urged to monitor the quality of connector installation to optimize the mating of connectors.

Input/Output connectors also normally exhibit a flat to "smile" profile with the mating surface downward. This "smile" condition self corrects once mated with the Mother Board counterpart and accessory locking screws are fastened. Again, checking for the 0.020 inch maximum gap is urged as a quality control monitor of user application techniques.

Amphenol has attempted to design in the ultimate for connector compliancy and self-correction during normal user installation procedures. The connector capabilities and inherent reliability rely in part on practical user procedures and application considerations. Refer to pages 27 - 29 for other installation instructions. And, refer to page 2 for correct mating of low mating force connectors. Amphenol board level engineers and product specialists are available to assist the user with application recommendations and processing guidance. Give us a call at 607-563-5011 and ask for board level technical assistance if further information is needed.

MOTHER BOARD CONNECTOR

MB connectors that are mounted on printed circuit boards should be installed on the board and held somewhat loosely, yet assuring all connector molding standoff pads contact the surface of the board, prior to soldering. There are several methods for attaching the MB connector to the board.

Inserting locking/mounting bushings with an arbor press is shown in the top photo at right. Locking/mounting bushing accessory, two per connector, may be inserted into 0.185 inch diameter CSK holes at each end of the front of a MB connector body. (Part number to order locking/mounting bushing is 10-41196-3). Using a light arbor press or similar device, firmly press the knurled section of the bushing into the lower 0.122 inch diameter hole until the front of the bushing is flush with, or slightly below, the front surface of the MB connector. Refer to Figure 1 at right.

Make sure the bushing and hole axis are properly aligned. Avoid excessive force which may crack the back surface of the MB connector body.

The back of the locking/mounting bushing has a 4–40 UNC-2A THD to mount the connector. Fasten the connector with a suitable washer and nut. The front of the locking/mounting bushing has a 4–40 UNC-2B THD which will mate with the locking screw accessory of an IO connector.

Alternate Mounting Variations for Mother Board Connector

A clinch nut (such as all ESNA 79NCFMA2-26 or equivalent may be pressed from the front, knurled end first, through the 0.185 diameter CSK into the 0.122 inch diameter hole at each end of the connector. An appropriate length 2–56 UNC-3A screw, washer, and nut may be used to mount the connector. Mounting forces should be applied to the bushing toward the rear of the connector. (See Figure 2 below)

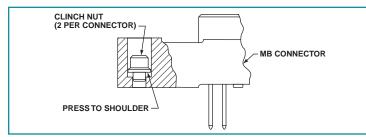


FIGURE 2: MB CONNECTOR WITH CLINCH NUT MOUNTING

When a Daughter Board is mated, use a 4–40 screw of appropriate length with a suitable washer under the head. Insert the screw from the front of the connector through the 0.185 inch diameter CSK into the 0.122 inch diameter hole at each end of the connector and fasten with a suitable washer and nut. (Refer to Figure 3 below). Torque to 5.5 pound-inch maximum after soldering operation has been completed.

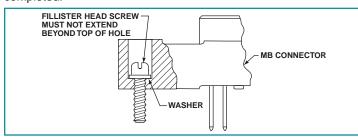


FIGURE 3: MB CONNECTOR WITH SCREW MOUNTING



LOCKING/MOUNTING BUSHING ACCESSORY INSERTED INTO MB CONNECTOR BODY

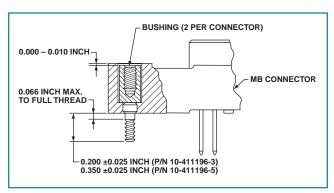


FIGURE 1: ASSEMBLY OF LOCKING/MOUNTING BUSHING INTO MB CONNECTOR

If MB connectors are to be wave soldered to printed circuit boards, the boards should be fixtured to maintain assembly straightness prior to and during the wave soldering process. (Refer to Figure 4 below).

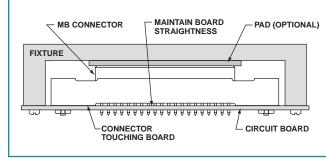


FIGURE 4: TYPICAL FIXTURE FOR SOLDERING
MB CONNECTORS

DAUGHTER BOARD CONNECTOR

DB connectors should be loosely held on the printed circuit board prior to and during wave soldering. Care must be taken to ensure that the board does not bow away from the center of the connector during the soldering process. Also, especially on long length daughter board connectors, care must be taken that the connector does not bow on the circuit board. (Refer to Figure 5.)

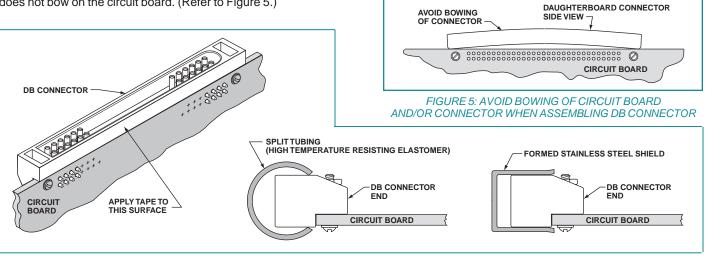


FIGURE 6: THREE TYPICAL MASKING APPLICATIONS FOR SOLDERING DB CONNECTORS

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After soldering, mounting screws should be properly torqued.

For cosmetic purposes, the board side of the DB connector can be masked prior to wave soldering to protect it from heat exposure and solder wash.

Acceptable masking may be accomplished with split tubing, stainless steel, or Mystik Tape #7010 or #7367. (Refer to Figure 6).

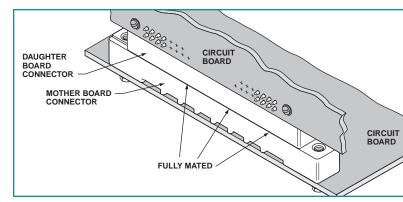
Printed wiring boards with DB connectors attached should be inserted into the housing until firmly seated. If possible, visual observation of the MB/DB mated condition is recommended. The fully mated condition occurs when the DB connector skirt bottoms on the MB or PC connector shoulder along the full length. (Refer to Figure 7).

Printed circuit boards should be supported in card guides and locked in position when connectors are fully mated.

PC CONNECTOR

The PC connector should be loosely attached to the printed circuit board prior to any soldering of contacts.

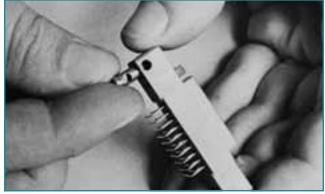
Locking bushing accessory, two per connector, may be inserted from the back of a PC connector body into large mounting holes at each end. See photo at right. Part number to order locking bushing accessory for PC connectors is 10-411196-4. The 0.126 inch diameter cross holes in the locking bushing must be aligned with the 0.126 inch diameter cross hole in the PC connector body. These holes accept a 4–40 UNC-2A screw which should be long enough to allow mounting to the board. Fasten with a suitable washer and nut, making sure an appropriate washer is also under the head. The front of the locking bushing has a 4–40 UNC-2B thread which will mate with the locking bushing accessory of an IO connector.



DAUGHTERBOARD CONNECTOR

AVOID BOWING OF CIRCUIT BOARD — CIRCUIT BOARD

FIGURE 7: MB CONNECTOR & DB CONNECTOR IN FULLY MATED CONDITION



LOCKING BUSHING ACCESSORY INSERTED INTO

PC CONNECTOR BODY

PC CONNECTOR, CONT.

The mounting surface to which the connector is applied should not extend forward of the shoulder of the PC connector. If the mounting surface does extend beyond the shoulder, a shim (minimum 0.005 inch thick) must be inserted between the connector body and the mounting surface. (Refer to Figure 8). After soldering, mounting screws should be properly torqued.

Fixturing of the PC connector and mounting surface may be desirable to assure straightness after wave soldering.

SHOULDER PC CONNECTOR USE A 0.005 INCH SHIM OR WASHER IF MOUNTING SURFACE EXTENDS BEYOND SHOULDER OF CONNECTOR

INPUT/OUTPUT CONNECTOR

Use of mating hardware, such as locking screws, is recommended with I/O connectors. See photo at right. Locking screw accessory, two per connector, may be inserted into the large holes at each end of the back of an IO connector body. Part number to order locking screw accessory is 10-411196-4. By hand, press the locking screw firmly down into the cavity until it reaches a positive stop. The locking screw is then captivated in the retention system of the cavity. The front of the locking screw has a 4-40 UNC-2A thread which will mate with the locking bushing accessories of MB or PC connectors. (Refer to Figure 9 for I/O locking screw dimensions).

Should it be necessary to remove the captivated locking screw accessory, push the screw as far forward as possible. Using vise grip pliers to grasp the threaded end and pliers to hold the knurled end, apply torque until the locking screw breaks in two. Each half will then drop out.

Alternate Mounting Variation for Input/Output Connectors

For fixed mounting, a 6-32 thread forming screw, type AB (MS5186) may be inserted through the mounting member and into the holes at each end of the connector body from the back. The screws must be used with suitable washers and must be of sufficient length to penetrate the connector body 0.350 inch. Care must be taken not to over-tighten the screws.

Visual observation of the mating of the MB connector to the I/O connector or the PC connector to the I/O connector is recommended. The fully mated condition occurs when the I/O connector skirt bottoms on the MB or PC shoulder along the full length. (Refer to Figure 10).

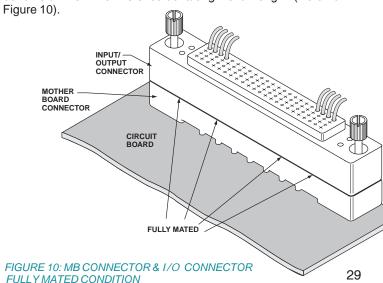
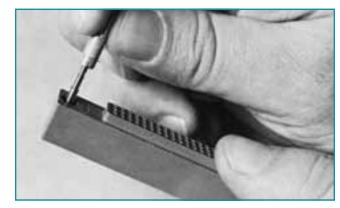


FIGURE 8: PC CONNECTOR MOUNTING



LOCKING SCREW ACCESSORY INSERTED INTO IO CONNECTOR BODY

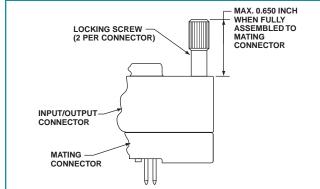


FIGURE 9: I/O LOCKING SCREW DIMENSIONS

Printed circuit boards containing PC connectors that are mating with I/O connectors should utilize a holding device that is capable of locking the board in place to prevent back-off during use.

Low Mating Force Connector Smaller Sizes with .100 X .100 Sq. Inch Grid design flexibility

E Tail Length ±.020 .148 .180 .335

To meet more customer needs and provide more design flexibility, Amphenol expanded their low mating force connector family with smaller contact count connectors (sizes with less than standard 10 contacts per row). These are available with as few as 10 brush contacts per connector and up to 36 brush contacts per connector. The arrangements are in the same .100 X .100 square inch grid pattern as standard low mating force connectors. They are offered in mother board, daughter board, input/output and printed circuit styles. (Shown on this page and the following page). For how to order information please consult Amphenol Aerospace.



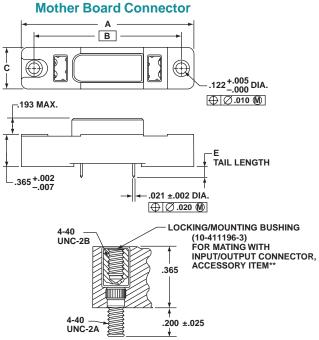
Mother Board Connector

Number of Contacts	Contact Pattern	A Max.	В	C Max.
10	2 Row X 5	1.795	1.475	.390
12	2 Row X 6	1.895	1.575	.390
14	2 Row X 7	1.995	1.675	.390
15	3 Row X 5	1.795	1.475	.490
16	2 Row X 8	2.095	1.775	.390
18	2 Row X 9	2.195	1.875	.390
10	3 Row X 6	1.895	1.575	.490
20	4 Row X 5	1.795	1.475	.590
21	3 Row X 7	1.995	1.675	.490
24	3 Row X 8	2.095	1.775	.490
24	4 Row X 6	1.895	1.575	.590
27	3 Row X 9	2.195	1.875	.490
28	4 Row X 7	1.995	1.675	.590
32	4 Row X 8	2.095	1.775	.590
36	4 Row X 9	2.195	1.875	.590

^{**} Accessory item supplied separately. See Accessory How to Order page 5 and page 27 for alternate mounting methods.

Daughter Board Connector

Contact Pattern	A Max.	В	C Max.	D Max.
2 Row X 5	1.180	.850	.375	.545
2 Row X 6	1.280	.950	.375	.545
2 Row X 7	1.380	1.050	.375	.545
3 Row X 5	1.180	.850	.475	.645
2 Row X 8	1.480	1.150	.375	.545
2 Row X 9	1.580	1.250	.375	.545
3 Row X 6	1.280	.950	.475	.645
4 Row X 5	1.180	.850	.575	.745
3 Row X 7	1.380	1.050	.475	.645
3 Row X 8	1.480	1.150	.475	.645
4 Row X 6	1.280	.950	.575	.745
3 Row X 9	1.580	1.250	.475	.645
4 Row X 7	1.380	1.050	.575	.745
4 Row X 8	1.480	1.150	.575	.745
4 Row X 9	1.580	1.250	.575	.745
	Pattern 2 Row X 5 2 Row X 6 2 Row X 7 3 Row X 5 2 Row X 8 2 Row X 9 3 Row X 6 4 Row X 5 3 Row X 7 3 Row X 8 4 Row X 6 3 Row X 9 4 Row X 9 4 Row X 9	Pattern Max. 2 Row X 5 1.180 2 Row X 6 1.280 2 Row X 7 1.380 3 Row X 5 1.180 2 Row X 8 1.480 2 Row X 9 1.580 3 Row X 6 1.280 4 Row X 5 1.180 3 Row X 7 1.380 3 Row X 7 1.380 4 Row X 8 1.480 4 Row X 6 1.280 4 Row X 6 1.280 4 Row X 7 1.380 4 Row X 7 1.380	Pattern Max. 2 Row X 5 1.180 .850 2 Row X 6 1.280 .950 2 Row X 7 1.380 1.050 3 Row X 5 1.180 .850 2 Row X 8 1.480 1.150 2 Row X 9 1.580 1.250 3 Row X 6 1.280 .950 4 Row X 5 1.180 .850 3 Row X 7 1.380 1.050 3 Row X 8 1.480 1.150 4 Row X 6 1.280 .950 3 Row X 9 1.580 1.250 4 Row X 7 1.380 1.050 4 Row X 8 1.480 1.150	Pattern Max. Max. 2 Row X 5 1.180 .850 .375 2 Row X 6 1.280 .950 .375 2 Row X 7 1.380 1.050 .375 3 Row X 5 1.180 .850 .475 2 Row X 8 1.480 1.150 .375 2 Row X 9 1.580 1.250 .375 3 Row X 6 1.280 .950 .475 4 Row X 5 1.180 .850 .575 3 Row X 7 1.380 1.050 .475 4 Row X 6 1.280 .950 .575 3 Row X 9 1.580 1.250 .475 4 Row X 7 1.380 1.050 .575 4 Row X 7 1.380 1.050 .575 4 Row X 8 1.480 1.150 .575



E Tail Length ±.020 .085 .120 .300 Daughter Board Connector .285 ±.005 .075 +.005 .075 +.005 .096 -.000 DIA. Diagram | Diagram

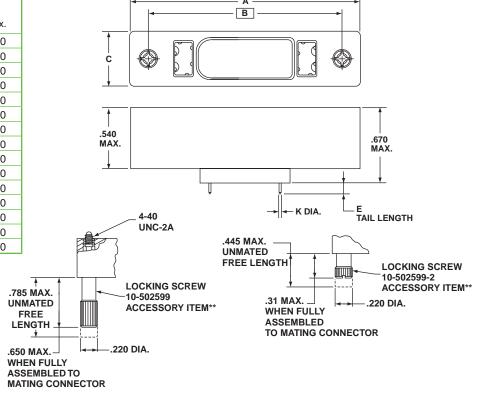
Low Mating Force Connector Smaller Sizes, cont. design flexibility

Input/Output Connector

Number of Contacts	Contact Pattern	A Max.	В	C Max.
10	2 Row X 5	1.795	1.475	.390
12	2 Row X 6	1.895	1.575	.390
14	2 Row X 7	1.995	1.675	.390
15	3 Row X 5	1.795	1.475	.490
16	2 Row X 8	2.095	1.775	.390
18	2 Row X 9	2.195	1.875	.390
10	3 Row X 6	1.895	1.575	.490
20	4 Row X 5	1.795	1.475	.590
21	3 Row X 7	1.995	1.675	.490
24	3 Row X 8	2.095	1.775	.490
24	4 Row X 6	1.895	1.575	.590
27	3 Row X 9	2.195	1.875	.490
28	4 Row X 7	1.995	1.675	.590
32	4 Row X 8	2.095	1.775	.590
36	4 Row X 9	2.195	1.875	.590

Contact Type	K Dia. ±.020	E Tail Lengt ±.020
Rear Removable Crimp Contact	N/A	N/A
Round PCB Stud	.021	.145
Solder Termination	.021	.335

Input/Output Connector

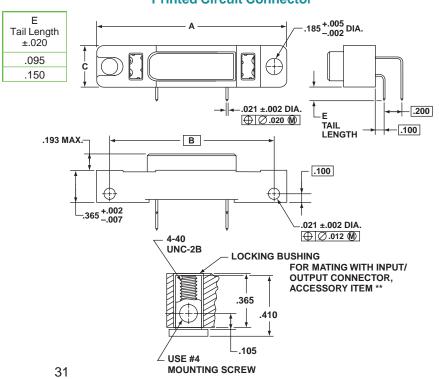


Printed Circuit Connector

Number of Contacts	Contact Pattern	A Max.	В	C Max.	D Max.
10	2 Row X 5	1.180	.850	.375	.545
12	2 Row X 6	1.280	.950	.375	.545
14	2 Row X 7	1.380	1.050	.375	.545
15	3 Row X 5	1.180	.850	.475	.645
16	2 Row X 8	1.480	1.150	.375	.545
18	2 Row X 9	1.580	1.250	.375	.545
	3 Row X 6	1.280	.950	.475	.645
20	4 Row X 5	1.180	.850	.575	.745
21	3 Row X 7	1.380	1.050	.475	.645
24	3 Row X 8	1.480	1.150	.475	.645
	4 Row X 6	1.280	.950	.575	.745
27	3 Row X 9	1.580	1.250	.475	.645
28	4 Row X 7	1.380	1.050	.575	.745
32	4 Row X 8	1.480	1.150	.575	.745
36	4 Row X 9	1.580	1.250	.575	.745

^{**} Accessory item supplied separately. See Accessory How to Order page 5 and page 27 for alternate mounting methods.

Printed Circuit Connector



Hybrid Configurations with Contact Options

signal, power, coax or fiber optics

The B³ Brush contact is the standard contact for Low mating force connectors due to its low mating force, stable electrical performance and extended service life. Design flexibility is expanded with the ability to add combinations of other types of contacts: signal, power, high speed coax or fiber optic termini; in one high density hybrid connector.

Power, shielded coax or twinax contacts, in combination with Brush signal contacts are available in configurations of the following (see next page for illustrations):

- A single row of size 16 power or coax or twinax contacts with 2 rows of brush contacts
- A single row of size 12 power or coax or twinax contacts with 3 rows of brush contacts
- A double row of size 16 power or coax or twinax contacts with 4 rows of brush contacts

Power and coax contacts are standard MIL-DTL-38999 Series II type. Consult Amphenol board level product marketing (800-678-0141) for assistance with available hybrid configurations.

NOTE: Power and coax contacts and fiber optic termini are not provided with the connector and must be purchased separately.

POWER STRIP CONNECTORS

Amphenol's Power Strip connectors were developed for use as a dedicated power interface between module cards and backplanes. These connectors use the same insert bodies as Amphenol low mating force connectors, but have power contacts rather than brush contacts. Cavities allow for size 16 or 12 power contacts. Or, coax/twinax contacts can also be used in these size 16 or 12 cavities.

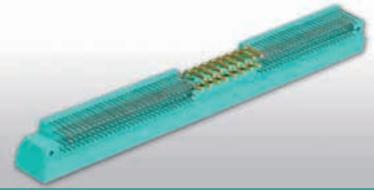
HYBRID BRUSH CONNECTORS WITH FIBER OPTIC TERMINI

Amphenol's superiority and breadth of product offering is demonstrated in its capability for packaging fiber termini and the Brush contact in a printed circuit board rectangular connector. Fiber optic MIL-PRF-29504 termini size 16 and HD20 can be used as well as the 90° termini style with optical performance the same as when used in cylindrical

For more information on Amphenol fiber optic connectors and termini, see the Fiber Optic section of Amphenol's Combined Circular Interconnects catalog on-line at www.amphenol-aerospace.com.



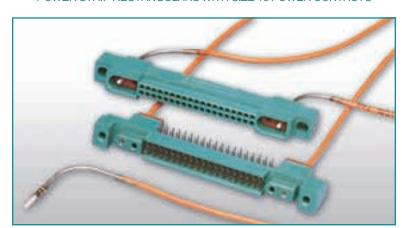
COMBINATION OF BRUSH CONTACTS & SHIELDED CONTACTS



CONNECTOR WITH BRUSH CONTACTS & SIZE 16 POWER PIN CONTACTS



POWER STRIP RECTANGULARS WITH SIZE 16 POWER CONTACTS



COMBINATION OF BRUSH CONTACTS & MS29504 FIBER OPTIC TERMINI

32





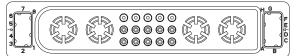
Custom Hybrid Designs, Small Color-Coded Brush Connectors

design flexibility

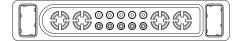
The following shows a few hybrid configuration connectors that have been developed. Consult Amphenol Aerospace for assistance in solving design problems and for part numbers that will provide the proper combination of these hybrid configurations to meet your specific connector application requirements.

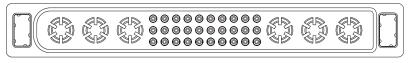
Hybrid: 30 B³ brush contacts, 6 size 12 power/coax/twinax contacts



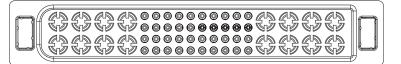


Hybrid: 10 B³ brush contacts, 4 size 16 power/coax/twinax contacts

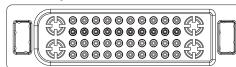




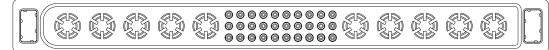
Hybrid: 40 B³ brush contacts, 16 size 16 power/coax/twinax contacts



Hybrid: 40 B³ Brush contacts, 4 size 16 power/coax/twinax contacts



Hybrid: 30 B³ brush contacts, 10 size 12 power/coax/twinax contacts



Amphenol can meet innovative connector solutions with custom designs. Our board level engineers can work with customers who need special contact arrangements or special sized inserts.

The special hybrid connector shown at right was developed for the Vetronics System on a military tank. This custom shape insert design houses a combination of contact types, a sealing grommet and it has special mounting/locking screws.



HYBRID CUSTOM CONNECTOR WITH
75 BRUSH DIGITAL CONTACTS,
26 SIZE 16 POWER CONTACTS & 2 SIZE 04 POWER CONTACTS

SMALL COLOR-CODED BRUSH CONTACT CONNECTORS DESIGNED FOR MEDICAL INSTRUMENTATION

Amphenol has responded to the needs of the medical industry by offering even smaller inserts with brush contacts. These small profile, but highly reliable interconnects, are ideal for medical and test equipment such as patient monitoring systems. Color coding of these connectors was a market-driven requirement for frequent plugging and unplugging on equipment, so Amphenol provides these small sized brush connectors in a variety of color materials.



SMALL COLOR-CODED BRUSH CONNECTORS WITH AS FEW AS 5 CONTACTS PER CONNECTOR

Other Brush Contact Rectangular Connectors Docking Connectors with (.0787 inch X .100 inch) staggered grid spacing

BRUSH CONTACT CONNECTORS MAKE THE IDEAL CHOICE FOR FREQUENT DOCKING APPLICATIONS

When frequent docking to charge and transfer data is a



necessity, the brush cont performance of over 100,	0,000 mating cycles. This long	(D) 22122222
contact life without degra	adation in performance reliability in frequent docking	
applications such as:		
 Handheld GPS units 	Scanners	
Handheld radios Dugged computers	AccessoriesCellular phones	
Rugged computersControllers	• Celidiai priories	
Performance		
	. Up to 100,000 mating cycles	Amphenol offers Docking Connectors in a compact
	e:. 1.5 ounce typical per contact 65° to 125°C	size, with tighter spaced custom brush contacts (.0787 inch x .100 inch staggered grid spacing).
Current Rating:	. Up to 5 amperes (termination deper	
	Hot swap 1 ampere maximum (load	Mother Board Docking Connector
Data Rate	dependent)	
(Select connectors only):	. Configurable for 3.125 Gbps differen	ntial signal
Insulation Resistance:	. 5 gigaohms minimum	
Dielectric Withstanding Voltage:	. 750 volts @ sea level minimum	.0787
-	250 volts @ 70,000 feet elevation m	
Solderability:		2.165
Salt Fog:	1002, type II	
Humidity:	. IAW MIL-STD-1344, method 1002,	
Vibration:	 4 hours in each of 3 mutually perper axes IAW MIL-STD-1344, method 2 	
	condition G)
Shock:	. 1 shock along each of three mutuall	.486
	perpendicular axes IAW MIL-STD- method 2004, test condition G	
Features	method 200 i, teet oondition d	.551
Radial Misalignment:	. Capable of correcting up to a .040" i	11ttal
Angular Misalignment: .	radial misalignment . Capable of mating with up to a 4° ini	└.021 ±.002 DIA.
Angulai iviisaligiiiileiil	angular misalignment	Daughter Board Docking Connector
Polarization:	. "D" shaped interface	
Color:	. Standard is black, variety of other coavailable	[.0/8/]
Materials	Grando	
Insulator:	. Glass-filled thermoplastic molding	1.413
Contact: Wire	. Beryllium copper per ASTM B197; fi gold per ASTM B488 over nickel per	nish is
	QQ-N-290	
Holder	. Brass similar to UNS C33500; finish	is gold
	per MIL-G-45204 or tin-lead per MIL or tin per MIL-T-10727 (RoHS comp	-P-81728
Sleeve:	Stainless steel per AMS-5514,	
	passivated IAW QQ-P-35 (DB and I/O connectors only)	.512
For more information, inclu		<u>↓</u>
Amphenol Aerospace. Cal	III 800-678-0141 and ask for Amphenol	.021 .059
board level product market	eting for assistance.	34
·		5 -1
·		5-

Other Brush Contact Rectangular Connectors HDB³ High Density Brush Series tighter (.070 in. X .060 in.) staggered grid spacing

HDB³ CONNECTORS

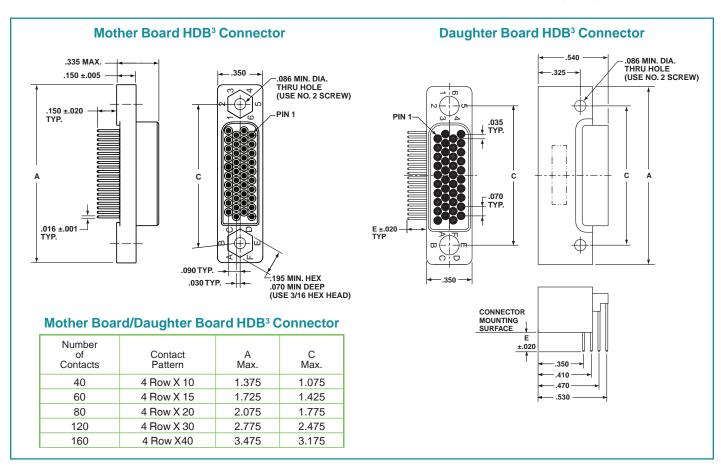
space.com.

The new connector series of brush connectors incorporates an even higher density contact pattern and lower mated height than Amphenol's standard low mating force rectangular connectors. These HDB3 connectors utilize the same durable and reliable B3 brush contact, but in a tighter .070 inch X .060 inch staggered grid spacing. They offer the advantage of a higher density pattern in a compact-height connector that will take up less board space; thus saving cost over adding additional connectors to meet power requirements. HDB³ connector styles include mother board, daughter board, input/output and a stacker style. For how to order information of the HDB³ see Amphe-

nol brochure SL-402* online at www.amphenol-aero-



When more contact density is required, the HDB³ High Density Series with .070 inch X .060 inch staggered grid spacing is the solution.



^{*} Also in SL-402 brochure are other HDB3 style connectors: input/output style, stacker and high speed configurations.

Please note, the new Amphenol Combined Rectangular Products catalog, 12-R1, will combined 12-035 (this catalog) and HDB3 product covered in SL-402, along with other Amphenol rectangular interconnect products. Ask for the new combined Amphenol Rectangular Interconnect Products catalog; available Jan. 2011

Other Brush Contact Rectangular Connectors

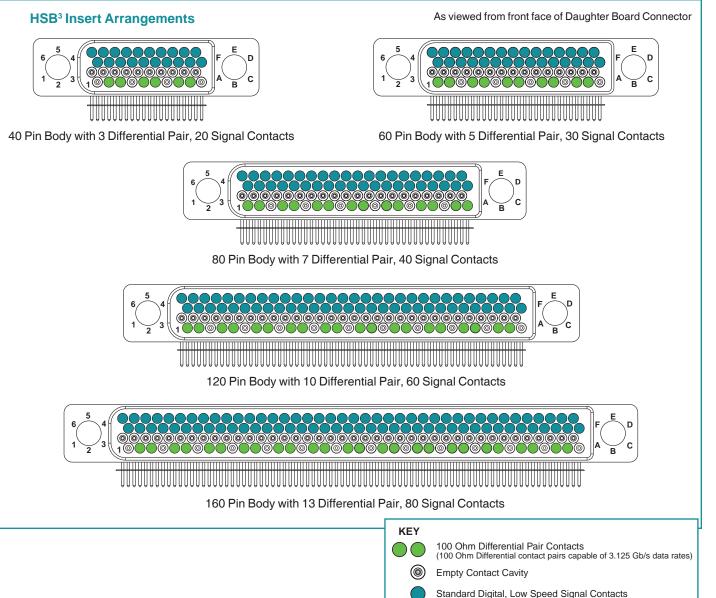
3.125 Gb/s High Speed data rate

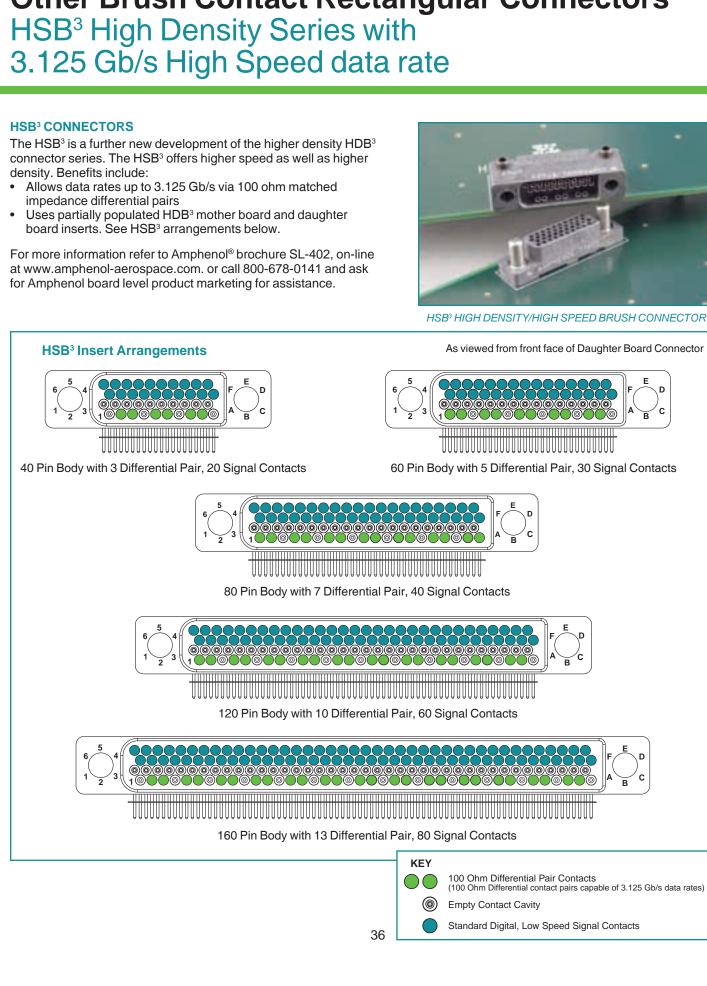
connector series. The HSB3 offers higher speed as well as higher

- impedance differential pairs
- board inserts. See HSB³ arrangements below.

at www.amphenol-aerospace.com. or call 800-678-0141 and ask for Amphenol board level product marketing for assistance.

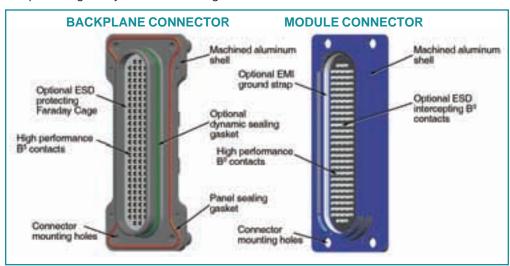






Other Brush Contact Rectangular Connectors Ruggedized, Non-Floating Brush Rack and Panel Connectors

This new connector series utilizes Amphenol's durable and reliable B³ contact system in a rugged, non-floating Rack and Panel connector. Included in this series are digital and power/digital "hybrid" insert arrangements.



Standard Ruggedized, Nonfloating Brush Rack and Panel Connector Features include:

- 126 high performance B³ brush contacts
- 0.100 inch x 0.100 inch square grid footprint
- Environmentally sealed at connector interface with mated (optional feature)
- Environmentally sealed connector mounting interface
- EMI protection is available at mounting surfaces and connector interface
- ESD protection is available - allows use of Class 3 hardened chips (4KV max. voltage)

Standard Ruggedized Brush Rack and Panel Connector Performance:

Durability:

 Insertion/Extraction Force: 7 lbs. typical

-60° to +125°C Operating Temp.: 3 amperes

Current Rating:

Hot swap 1 ampere maximum (load dependant) - non ESD protected version

EIA-364-27B, test condition G

Insulation Resistance: 1 gagohm minimum

Dielectric

Shock:

Withstanding Voltage: 500V, 60 Hz RMS @ sea level

300V, 60 Hz RMS @ 15,000 ft. elevation

500 mating cycles

J-STD-004, -005 & -006 Solderability

 Salt Fog: EIA-364-26B, test condition B Humidity: EIA-364-31B, test method III Vibration: EIA-364-28B, test condition III

Hybrid arrangements are available as shown in top photo at right, that utilize a combination of brush contacts and high power RADSOK® contacts. The photo shows a 74 signal and 6 power configuration. For other hybrid arrangements and assistance on how to order this product, consult Amphenol Aerospace.



HYBRD RUGGEDIZED, NON-FLOATING RACK & PANEL CONNECTOR (8 RADSOK® HIGH POWER CONTACTS, 72 BRUSH CONTACTS)



2 BAY SHELL CONFIGURATION RUGGEDIZED, NON-FLOATING RACK AND PANEL CONNECTOR (126 BRUSH CONTACTS PER BAY)

Other Brush Contact Rectangular Connectors

LRM (Line Replaceable Modules)

AMPHENOL CONTINUES TO DEVELOP INTERCONNECTS THAT MEET THE DEMANDS OF THE AVIONICS INDUSTRY

Starting with the development of the B³ contact, incorporated into the low mating force PCB connectors, the LRM line replaceable module followed as the avionics high density rectangular interconnect solution. LRM interconnects are combinations of module and backplane inserts, in one bay, two bay, three bay or more configurations. LRM products are used on major programs of aircraft and military vehicles.

This page and the next briefly describe the LRM family of connectors. For complete information please see Amphenol® High Performance Line Replaceable Module (LRM) Interconnects catalog, 12-037.*

The Brush contact has superior performance in LRM interconnects due to its low mating force, stable electrical performance and extended life. Other LRM features include:

- Backplane versatility: available with through-hole solder posts or with compliant pins for solderless applications
- Wide range of PCB/heat sink accommodations with standard surface mount tails or flex termination
- Polarization keys up to 4096 possible keying positions
- Superior intermittancy-free performance under vibration
 Dielectric withstanding voltage: Staggered grid and
- GEN-X styles: 100 volts at sea level (due to the incorporation of ESD shield)
- Temperature range: suitable for vapor phase soldering; normal operating temp. is -65°C to +125°C
- Current rating: 3.0A derated to 1.5A typical (dependant on loading)

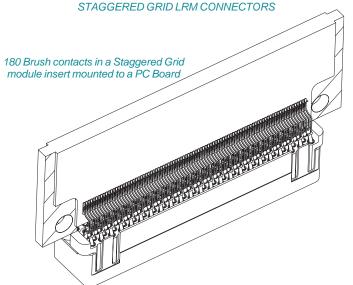
LRM CONNECTORS WITH STAGGERED GRID

- Provides higher contact density for high speed integrated circuitry in SEM-E and custom form factors
- 180 contact insert pattern grid in 8 rows: 0.100 inch spacing along the row with 0.050 inch between rows, rows offset 0.050 inch
- Options include various shell designs to accommodate a wide range of PC board/heat sink combinations
- Solder tail, wire wrap or compliant contact availability
- Amphenol ESD (Electrostatic Discharge) protection:
 Utilization of the Faraday Cage principal to shunt
 electrostatic discharge events to the conductive enclosure on which the connector is mounted, thus never
 allowing the high voltage, high current discharge
 event to reside on any contacts.
- Designed for level 2 (flight line) maintenance
- Provides routing channels for backplane

LRM CONNECTORS WITH STAGGERED GRID AIRFLOW-THRU CONTACT PATTERN

 Accommodate standard B³ tails in staggered pattern, but with increased spacing in the center, and also provide more airflow cooling of inserts; for use with wider boards, up to 0.425 inch







GEN-X GRID LRM CONNECTOR

LRM CONNECTORS WITH GEN-X GRID

- Even higher contact density than staggered grid and improved electrical performance
- All the feature of the 180 contact pattern, including ESD protection
- Available in SEM-E and custom form factors
- 236 contact pattern grid in 8 rows: 0.075 inch spacing along the row with 0.060 inch between rows, rows offset 0.0375 inch
 - * Amphenol LRM Catalog, 12-037, is on-line at www.amphenolaerospace.com. Please note that Amphenol's New Combined Rectangular Catalog (available Jan. 2011) will include LRM interconnects. Call Amphenol Aerospace (800-678-0141) for more information.

Other Brush Contact Rectangular Connectors

LRM Hybrids and High Speed LRM Gigastak & Digastak Inserts

LRM OPTIONAL HYBRID DESIGNS

- Custom combinations of digital contacts and fiber optic termini. Optical performance of fiber optic termini within LRM connectors are the same as termini used in cylindrical connectors.** Insertion losses range from .3dB to <1.5dB depending upon launch conditions, fiber NA, fiber size and the type of termination. LRM connectors are available with fiber optic termini in the following configurations:
- Modified MIL-PRF-29504/4, /5, MIL-PRF-14 & MIL-PF-15 termini - size 16, straight and 90 degree styles
- MT ferrule (2-24 fiber lines per ferrule)
- Hybrid arrangements with fiber optic and other contact types
- LRM inserts with RF contacts
- LRM power supply modules with 270VDC sections which are capable of providing corona-free operation at 100,000 ft.
- Designs with high speed shielded contacts coax, triax, twinax, differential twinax, and quadrax contacts
- Combinations of power contact, standard brush, high power, differential pair brush and fiber optic termini
- New designs that utilizes the RADSOK® high amperage socket contact with inserts.
 The RADSOK® design is a socket cylinder within the female contact which has several equally spaced longitudinal beams twisted into a hyperbolic shape. As the male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss. This twisted hyperbolic grid ensures a large coaxial, face-to-face
- Incorporation of flex circuits for more versatility of PC board terminations
- Custom shells with multiple bay configurations
- Backplane shell grounding capabilities

surface area engagement.

HIGH SPEED LRM GIGASTAK AND DIGASTAK INSERTS

More and more speed is needed in today's interconnection products. Amphenol has recently developed a new family of high speed LRM connectors that are capable of achieving data rates in excess of 6.25 Gbps via 100 ohm matched impedance differential pairs. Each insert arrangement has been optimized through strategic placement of signal and ground contacts for the perfect balance of impedance control and cross talk mitigation for a given data rate. As an enhancement over the standard LRM, this new series offers a unique solderless termination to module cards via Amphenol Intercon's cStack technology.



LRM INTERCONNECTS (SHOWN FROM TOP TO BOTTOM):

- LRM Backplane, 2 bays of staggered B³ brush contacts and inserts for size 12 coax contacts
- LRM Module with Fiber Optic MT ferrules in one insert and B³ Brush in a differential pair insert
- LRM inserts with PC tails
- LRM mating Module and Backplane with MT-PRF-29504 Fiber optic termini and B³ Brush contacts



HIGH SPEED LRM GIGASTAK AND DIGASTAK INSERTS

^{**} For more information on Amphenol fiber optic connectors and termini, see the Fiber Optic section of Amphenol's Combined Circular Interconnects catalog, on-line at www.amphenol-aerospace.com.

de G

Other Amphenol Rectangular (Fotal packaging with Amphenol I Boards, Rectangular and Cylindi	Printed Circuit
mphenol leads in the electrical connector arena in offering a wide range of terconnects that provide high speed transmission and operate in high equency conditions. The photo at right shows a board level connector with 4 ze 8 quadrax compliant contacts. This will accomodate a backplane of .125 ch min. thickness. Consult Amphenol Aerospace for more information. IPER® INTERCONNECTS IPER® INTERCONNECTS IPER® INTERCONNECTS IPER® INTERCONNECTS IPER® Interconnect platform provide a ruggedized and high density odular connector solution that can scale to gher bandwidths; from 80 Mbps to over 10 pbs. Features and benefits of the VIPER clude: Designed for 10+ Gbps data rate performance 100 ohm impedance for differential pair in a 1.8mm x 1.35mm grid Press-fit termination compliant pins Backplane modules available in 8 & 16 row increments, 1.8mm x 1.8mm grid Fully footprint-compatible with VITA 46 & VITA 48 standards ESD protection onsult Amphenol Backplane Systems for more information. hone: 603-883-5100 MPHENOL PRINTED CIRCUIT BOARD CAPABILITIES Imphenol Printed Circuits' capabilities are among the world's broadest and lost advanced, delivering consistent quality and reliability for demanding high andwidth systems and mission critical applications. Designs of printed circuit broads are available from Amphenol APC with a wide variety of materials,	BOARD LEVEL CONNECTOR WITH COMPLIANT PIN QUADRAX CONTACTS AMPHENOL PRINTED CIRCUIT BOARDS
mphenol Printed Circuits' capabilities also includes the design and manufactor of flex circuits used to attach cylindrical and rectangular connectors to PCB pards. Sculptured® Flexible Circuits with built-in terminations eliminate the cilcures associated with crimped or soldered-on contacts. Flex geometrically fits ght space requirements and eliminates the need to purchase and attach dividual pins or connectors. onsult APC, Amphenol Printed Circuits, for more information on rinted circuit boards and flex assemblies. Phone: 603-324-4500 ITEGRATED SYSTEM PACKAGING Imphenol can provide system solutions - everything you need side and outside the box: Interconnect products, printed circuit pards, backplane assemblies, heat-sinks and metal enclosures. Imphenol also provides value added assembly including bussing; all system assembly including chassis build and sub-system tegration and testing. The breadth of Amphenol's products and the proven expertise of being a world-wide interconnect product ader makes Amphenol the premier choice for system-level ackaging. For more information on integrated systems, call: Imphenol Backplane Systems at 888-318-3553 An example integrated system box, shown at right, includes the following Amphenol interconnect products: • Circulars: D38999 cylindrical connectors with MT fiber optics, RJ Field connector Rectangulars: ARINC 600 connectors, Micro-D Subminiature connectors • Rectangulars: HDB3 high density brush contact connectors • Backplane Systems, Flex Circuitry, metal enclosure	

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Gate Drivers category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

00053P0231 8967380000 56956 CR7E-30DB-3.96E(72) 57.404.7355.5 LT4936 57.904.0755.0 5803-0901 58410 5882900001 00600P0005
00-9050-LRPP 00-9090-RDPP 5951900000 01-1003W-10/32-15 LTILA6E-1S-WH-RC-FN12VXCR1 0131700000 00-2240 LTP70N06
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