



The Micro Edgeboard (MEB) connector series provides a combination of high density and high reliability for applications in airborne and space systems, computers and peripherals, and industrial /commercial control systems. This series incorporates the proven MICROPIN™/MICROSOCKET™ contact. This contact has an outstanding record of high reliability and millions of contacts are in use in various applications where electrical

The MEB has machined aluminum shells for ruggedness, diallyl phthalate insulator for top electrical performance and a 36-position polarization key system to prevent cross plug-

interconnects are used.

ging. Contacts are on .050 (1.27) center spacings. A variety of termination types are available, including 90° or right angle pigtails for multi-layered P.C. boards, "coke bottle" termination for double-sided P.C. boards. Harnessing capability is also available for both pin and socket sides.

The MEB, including the SBR 90° or right angle variation available for multi-layer boards, can be mounted on the female (daughter) side of double or single-sided P.C. boards. The mating male (mother) board side can have the terminations formed to meet the application demands.

Conforms to MIL-C-55302/120 thru 123. (not qualified)

Shell:	6061-T6 Aluminum Alloy per QQ-A-200/8 or QQ-A-225/8, electroless nickel per SAE AMS-C-26074, Class 4, except .0010 to .0015 (0.03 to 0.04) thick or conversio coating per MIL-C-5541, Class 3, color gold.
Contact, Pin and Socket:	Copper Alloy, 50 microinch gold per ASTM B488, Type II, Code C, Class 1.25
Jacksœw/Jackpost:	303 stainless steel, passivated per QQ-P-35.
Insulator:	Glass-filled diallyl phthalate per MIL-M-14, Type SDG-F, color green Polyester per MIL-M-24519, Type GPT-30F, color black available for MEB-128 upon request.

TERMINATION TYPES

Consult factory for stranded wie lead modifications codes.

MECHANICAL FEATURES

Size or Length:	2 sizes
Coupling:	Friction/Jackscrew
Polarization:	Shells, polarizing keys (36 positions)
Contact Spacing Centers:	.050 (1.27)
Shell Styles:	Plug and receptacle

Not applicable for printed circuit board configurations shown on pages D-67 & D-68.



RoHS COMPLIANCE SERIES PREFIX CONTACT SPACING -LAYOUT -CONTACT TYPE -**TERMINATION MODIFICATIONS -**I FAD I FNGTH

SERIES PREFIX

OTHER MODIFICATIONS -

MEB -Micro edgeboard, plug with twist pin

contacts or recept. with microsocket contacts.

CONTACT SPACING

1 - .050 (1.27) centers 128/184 2 - .100 (2.54) centers 64/92 (alternate contact holes)

LAYOUT

64, 92, 128, 184

CONTACT TYPE

P - Pin

S - Socket



L-Uninsulated solid wire

Insulated stranded round harness H -

wire

S-Solder pots

BR -PC board right angle, socket side only



Consult factory for wire lead modification codes.

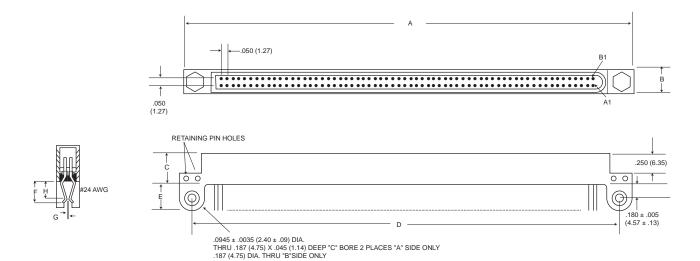
OTHER MODIFICATIONS

Consult factory



^{*} For other contact spacing acommodations consult customer service.

MEB1-12BS

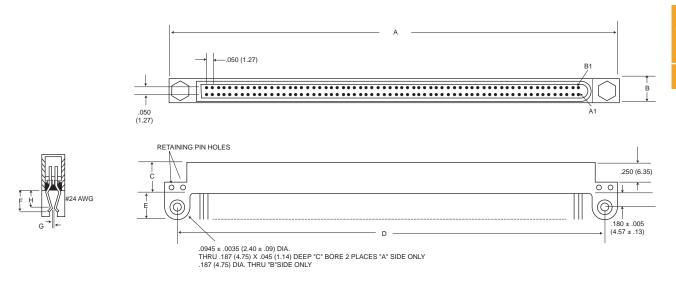


Part No.	Weight oz. (gm.) Max.	A ±.015 (0.38)	B ±.010 (0.25)	C ±.010 (0.25)	D ±.010 (0.25)	E ±.010 (0.25)	F Max.	G* Max.	H ±.020 (0.51)
128S	.5 (14.17)	3.950 (100.33)	.250 (6.35)	.400 (10.16)	3.700 (93.98)	.300 (7.62)	.280 (7.11)	.030 (0.76)	.200 (5.08)
128SBR	.5 (14.17)	3.930 (100.33)	.250 (6.35)	.400 (10.16)	3.700 (93.96)	.500 (7.02)	.200 (7.11)	.030 (0.76)	.200 (3.06)

^{*}Will accept up to .093 (2.36) thick P.C. Board with shell modifications.

Receptacle (Daughter Board)

MEB1-12BS

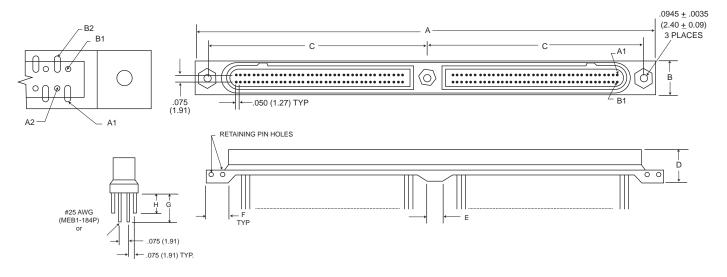


Part No.	Weight oz. (gm.) Max.	A ±.015 (0.38)	B ±.010 (0.25)	C ±.010 (0.25)	D ±.010 (0.25)	E ±.010 (0.25)	F Max.	G* Max.	H ±.020 (0.51)
128S 128SBR	.5 (14.17) .5 (14.17)	3.950 (100.33)	.250 (6.35)	.400 (10.16)	3.700 (93.98)	.300 (7.62)	.280 (7.11)	.030 (0.76)	.200 (5.08)

^{*}Will accept up to .093 (2.36) thick P.C. Board with shell modifications.



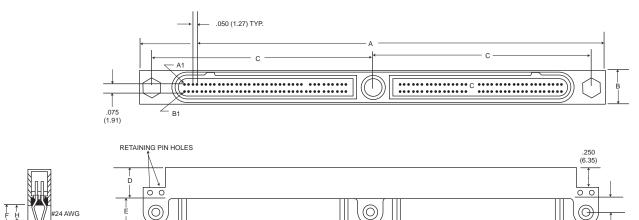
MEB1-184P



Part No.	Weight oz. (gm.) Max.	A ±.015 (0.38)	B ±.010 (0.25)	C ±.005 (0.13)	D ±.010 (0.25)	E ±.010 (0.25)	F ±.010 (0.25)	G ±.025 (0.64)	H ±.025 (0.64)
184P	1.0 (28.35)	5.800 (147.32)	.343 (8.71)	2.775 (70.49)	.400 (10.16)	.250 (6.35)	.280 (7.11)	.350 (8.89)	.275 (6.99)



MEB1-184S



			THRU .187 (4.75) X .075 (1.91) DEEP "C" BORE 3 PLACES-A SIDE ONLY187 (4.75) DIA. 3 PLACES-B SIDE ONLY							
	Weight	Α	В	С	D	E	F	G	Н	J
Part No.	oz. (gm.) Max.	±.015 (0.38)	±.010 (0.25)	±.005 (0.13)	±.010 (0.25)	±.010 (0.25)	Max.	Max.	±.020 (0.51)	±.010 (0.25)
184S	1.0 (28.35)	5.800 (147.32)	.343 (8.71)	2.775 (70.49)	.400 (10.16)	.300 (7.62)	.280 (7.11)	.030 (0.76)	.200 (5.08)	250 (6.25)
19/CBD	1.0 (29.35)	3.000 (147.32)	.343 (8.71)	2.775 (70.49)	.400 (10.16)	.500 (7.62)	.200 (7.11)	.030 (0.76)	.200 (5.08)	.250 (6.35)

All round pigtail #25 AWG wire termination designs available for the MEB1-12B receptacle will apply on the MEB1-184 series also.

.0945 ± .0035 (2.40 ± .09) DIA

1.0 (28.35)

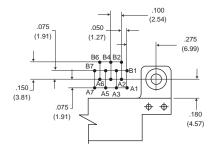


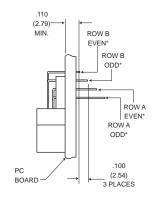
184SBR

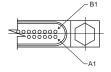
.180 ± .005 (4.57 ± 0.13)

^{*}Will accept up to .093 (2.36) thick P.C. Board with shell modifications.

MEB1-128SBR



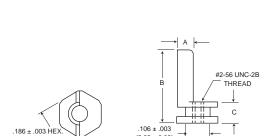




(4.72 ± 0.08)

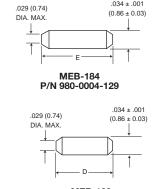
Polarizing Hardware Kit MEB-128-P/N 320-9514-003 MEB-184-P/N 320-9514-002

Contains 2 polarizing keys and 4 spiral pins.



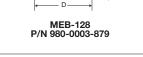
(2.69 ± 0.08) DIA.





.034 ± .001

 (0.86 ± 0.03)



A	B	C	D	E
± .003 (0.08)	± .005 (0.13)	± .003 (0.08)	± .010 (0.25)	± .010 (0.25)
.081 (2.06)	.325 (8.26)	.089 (2.26)	.250 (6.35)	



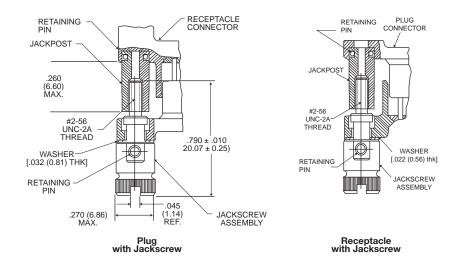
Jackpost Kit

MEB plug or receptacle-P/N 320-9514-001 Contains 2 bushings and 4 spirals pins

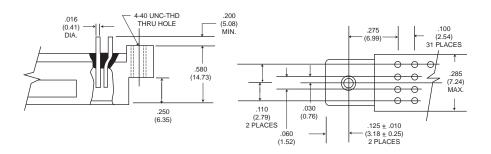
Jackscrew Kit

MEB plug-P/N 320-9521-001 MEB receptacle-P/N 320-9521-000

Contains 2 jackscrew assemblies



Alternative Receptacle Configuration













The Cannon Centi connectors are especially suitable for commercial applications such as computers, instrumentation, communications and audio equipment. They are available in D subminiature size metal shell rectangular, plastic shell rectangular and strip configurations.

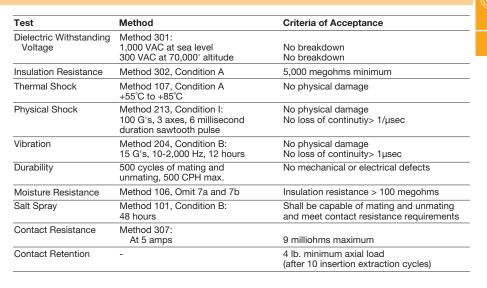
All Centi connectors use the reliable twist pin contact design in a 5 amp version terminated on .075 (1.91) and .100 (2.54) centers. The Centi contact is crimp removable, connectors are available for customer assembly. Standard crimp and assembly tools are available.

The twist pin contact is recessed within the insulator housing while the rugged cylindrical socket is exposed. When the connector halves are mated, the chamfered sockets guide the pins into positive alignment. The Centipin™ contact, now under compression, forms a multi-point contact with the Centisocket™ to provide a high degree of reliability.

Standard Data

- Contact rating: 5 amps max, except BR Series (2 amps max.)
- Minimum contact centers: 0.075 (1.91).
- Wire sizes: #22 thru #26 AWG, stranded or solid.
- Contact termination: Multiple indent crimp.
- Contact retention: Crimp snapin/removable.
- Contact materials and finish: Copper alloy, gold- plated per ASTM B488, Type II, Code C, Class 1.25.
- Mating/unmating force: 12 oz. per contact, max.

Performance Data





2DD100S

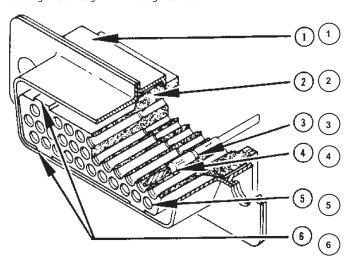
The Double Density D is a rectangular connector in the popular D Subminiature shell configuration featuring double the contact density in the same insert area. The Double Density D connector can thus accommodate up to 100 contacts instead of

This double contact density is achieved by using field-proven, highly reliable Centipin™/Centisocket™ contacts on .075 (1.91) centers, in the positive contact alignment design. In this design contact

positions are reversed; the flexible Centipin™ contacts are recessed in the insulator and the more rugged Centisocket[™] contacts are exposed. This reversal of positions, and the chamfered-entry of the sockets, assures positive mating even under severe misalignment conditions. The contacts are retained in the monobloc insulator by a resilient internal shoulder that snaps into a locking groove in the contact. The chamfered front of the contact will not damage the internal shoulder in the insulator.

Contacts are crimp removable type.

The Double Density D connector is available in the five popular shell and insert sizes accommodating up to 100 contacts. These connectors mate exclusively with other Double Density D connectors. A wide range of accessories can be used, including junction shells, potting cups, switching shells, guide pin plates, and dust caps.



1. STANDARD D HARDWARE-

Including full range of D-Subminiature accessories

2. ONE PIECE MONOBLOCK INSULATOR-

glass-filled nylon material

3. CONTACT RETENTION-

thermoplastic internal shoulder snaps into a locking groove in the contact.

Retention Force: 8 lbs. min. initially, 4 lbs. min. after 10 cycles.

4. TWIST PIN CONTACTS-

seven outer wiping surfaces assure electrical continuity even under severe shock and vibration

5. POSTIVE CONTACT ALIGNMENT-

flexible pin is recessed in insulator cavity and rugged socket is exposed

6. GUIDE-IN KEYS AND KEYWAYS-

assure alignment during mating and prevent scooping

WEIGHT				
Part Number by shell size	Weight Less With		Weight (Less With	
2DE19P	4.05	5.02	.142	.177
2DE19S	3.75	5.17	.133	.182
2DA31P	5.20	6.78	.183	.239
2DA31S	4.90	7.22	.173	.255
2DB52P	8.75	11.40	.308	.402
2DB52S	7.15	11.05	.252	.390
2DC79P	11.70	15.73	.413	.555
2DC79S	9.70	15.62	.342	.551
2DD100P	12.85	17.95	.453	.633

10.95

18.45

.386

.651

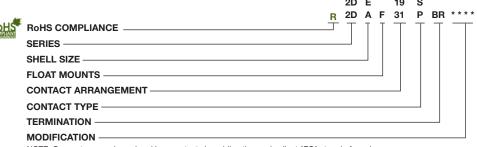
MATERIALS AND FINISHES

*Shell	 Steel, cadmium plated with yellow c 		
	mate supplementary coating		
Mounting Hardware	- Stainless steel		
and Float Mounts			
Insulator	Glass-filled nylon		
Contacts	- Copper alloy, gold plate		
Alternate finish,	- A106 Gold over brass		
Modification Code	A156 Gold over brass		
	A197 Tin/Lead over steel		
*Brace non-magnot	io also available		

Brass non-magnetic also available

MECHANICAL FEATURES

Sizes	- Five shell sizes: E, A, B, C, and D
Coupling	- Friction or jackscrew
Polarization	- Keystone-shaped shells
Contact Spacing	075 (1.91)
Contact Termination	- Crimp snap-in



NOTE: Connectors may be ordered less contacts by adding the mod callout "FO" at end of number. Contacts are then supplied in bulk form.

CONTACT ARRANGEMENT

19, 31, 52, 79 and 100

CONTACT TYPE*

P - Pin

S - Socket

TERMINATION

BR - 90° right angle PCB mounting (For BR Series use "P" to designate jackpost)

MODIFICATION

F171 - Jackpost assembly

F172 - Standard jackscrew

F173 - Low profile jackscrew

For other modifications consult factory

Dimensions shown in inches (mm) Specifications and dimensions subject to change



FLOAT MOUNTS

2D - Double Density D

E, A, B, C and D

Omit if not required

SERIES

SHELL SIZE

^{*} Accommodates AWG #26 thru #22

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ITT Cannon:

MEB2-64SBR MEB1-128P MEB1-128PH001 MEB1-128PL92 MEB1-128SH18K MEB1-128SH33 MEB2-64SBR
11-A159 MEB1-128SBR-NMB-A172 MEB1-184SL84 MEB1-184SL80 MEB1-184SL83 MEB1-184SBR12 MEB2
64PH9P MEB1-128PH32 MEB1-128PHY01 MEB1-128SL94 MEB1-128SL96 MEB1-128SBR13 MEB1-128SBR14 MEB2-64P-5 MEB1-128PL1 MEB1-184SBR2 MEB1-128SS13 MEB2-64PS MEB1-128SSK MEB2-64PL80 MEB1
128SHY01 MEB1-128P-A179 MEB2-64SL83-A159 MEB1-128PH053 MEB1-128SS MEB1-128PH095 MEB1
128PH011 MEB1-128PH019 MEB1-128SBRP MEB1-128SS14K MEB1-128PH003 MEB1-128PS MEB1-128PL96 MEB1-128P-NMB-A172 MEB1-128PL90 MEB1-128PL93 MEB1-128SH8 MEB1-128SH3 MEB1-128SP-1 MEB1
128S-8 MEB1-128P-13-A159 MEB1-128P-15-A172 MEB1-128P-14-A172 MEB1-128PL1-NMB-A172 MEB1-128PL88 MEB1-128PL87 MEB1-128PL89 MEB1-128SH003 MEB1-128PSP MEB1-128SH042 MEB2-92SBR MEB1
128PBR MEB1-128P-7 MEB1-128P-5 MEB1-128P-4 MEB1-128P-8 MEB2-64PL79 MEB1-184SL1 MEB1-128SBR
19 MEB1-128SH15 MEB1-128SH13 MEB1-184SL92 MEB1-128SBR-31 MEB1-128SH36 MEB1
128SH32 MEB1-128SBRP-1 MEB1-128PBR-6 MEB1-128SBR-20