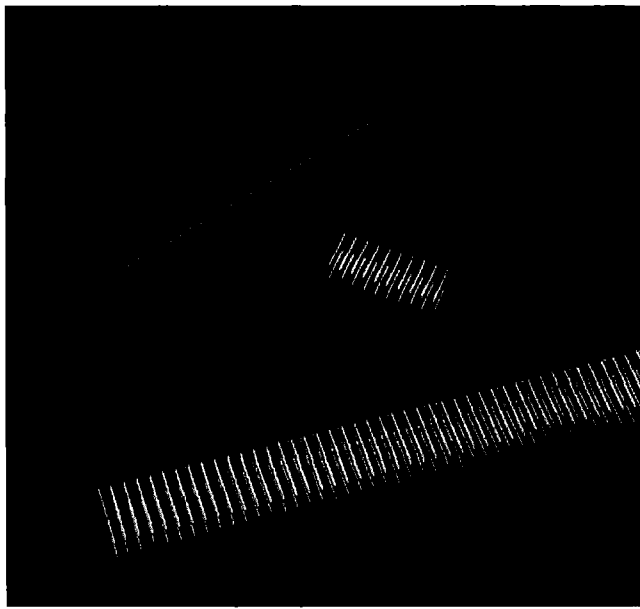


746 SERIES ULTRA-MATE CARD EDGE CONNECTOR

.125" (3.18mm) Contact Spacing, Compliant Pin



- CSA Approved and UL Recognized
- .125 (3.18) Contact Spacing x .250 (6.35) Row Spacing
- Accepts .062 (1.57) Nominal Thickness P.C. Board
- High Profile Insulator Body, .645 (16.38) with End Notch Option
- Ultra-Mate Compliant Section for Gas-Tight Reliable Connection in Plated Through Holes Eliminates Soldering Operations
- Contact Termination Options include P.C. Tail and .025 (0.64) Square Wire Wrap
- Single or Dual Row Configurations
- Accepts Between Contact and In-Contact Polarizing Keys
- Tools Available for Insulator and Contact Removal.
- Simple "Flat Rock" Tooling is Used for Connector Installation

SPECIFICATIONS

- Insulator Material: Thermoplastic Polyester, UL 94V-O, Colour: Black
- Contact Material: Copper, Nickel, Tin Alloy CA-725
- Contact Plating: 30 Microinches (0.76 Microns) Gold on the Mating Area, Tin-Lead on the Compliant Section and Contact Tails, Nickel Underplate. Other Plating Options Available upon Request.
- Current Rating: 3 Amperes Continuous
- Dielectric Withstanding Voltage: 1500 V AC rms at Sea Level Between Adjacent Contacts
- Insulation Resistance: 5000 Megohms Minimum
- Operating Temperature: -65 to +125 Degrees C
- Daughter Board Insertion Force: 16 oz (4.45 N) Maximum per Contact Pair when Tested with a .070 (1.78) Thick Gauge
- Daughter Board Withdrawal Force: 1 oz (0.28 N) Minimum per Contact Pair when Tested with a .054 (1.37) Thick Gauge
- Contact Insertion Into Hole: 20 lbs (89 N) Maximum
- Contact Retention In Hole: 10 lbs (44 N) Minimum
- Re-Insertability of Hole: 3 Times Minimum

ORDERING CODE

Example Part Number 746 - 070 - 525 - 6 01

Series _____
 Total Number of Contacts _____
 Contact Code _____
 Contact Rows & Card Slot Depth _____
 Insulator Options _____

Series 746

Total Number of Contacts ¹	Contact Rows
005, 006,...060	Single Row
010, 012,...120	Dual Row

Contact Code ²	Description & Contact Point	Tail Length "G"
520	P.C. Tail Regular Point	.175 (4.45)
525	P.C. Tail High Point	.175 (4.45)
527	P.C. Tail High Point	.375 (9.53)
540	Wire Wrap Regular Point	.560 (14.22)
541	Wire Wrap Regular Point	.750 (19.05)
545	Wire Wrap High Point	.560 (14.22)
553	Wire Wrap Medium Point	.702 (17.83)

Contact Rows & Card Slot Depth	Description
1	Single Row, .515 (13.08) Slot Depth
2	Dual Row, .515 (13.08) Slot Depth
5	Single Row, .340 (8.64) Slot Depth
6	Dual Row, .340 (8.64) Slot Depth

Insulator Options	Description
01	.645 (16.38) Full Height Ends
06	.550 (13.97) Notched Ends

Ordering Code Notes

- All connector sizes up to 60 contacts single row / 120 contacts dual row are available upon request.
- Make-before-break switching contacts, assembled in specific contact positions, are available upon request.

IN-CONTACT
POLARIZING KEY

P/N 745-240-328



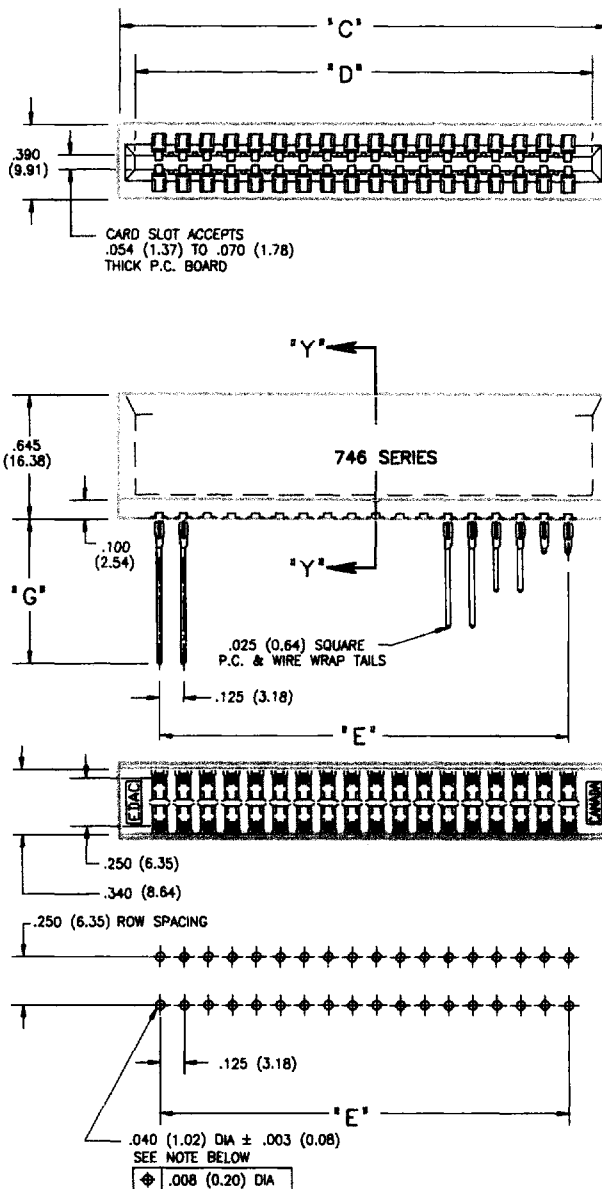
BETWEEN CONTACT
POLARIZING KEY

P/N 306-240-318



ULTRA-MATE CARD EDGE CONNECTOR SERIES 746

Compliant Pin, Contact Spacing .125" (3.18mm)

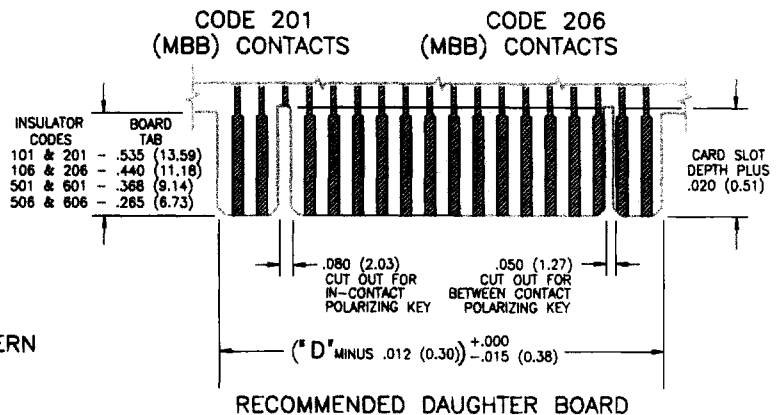
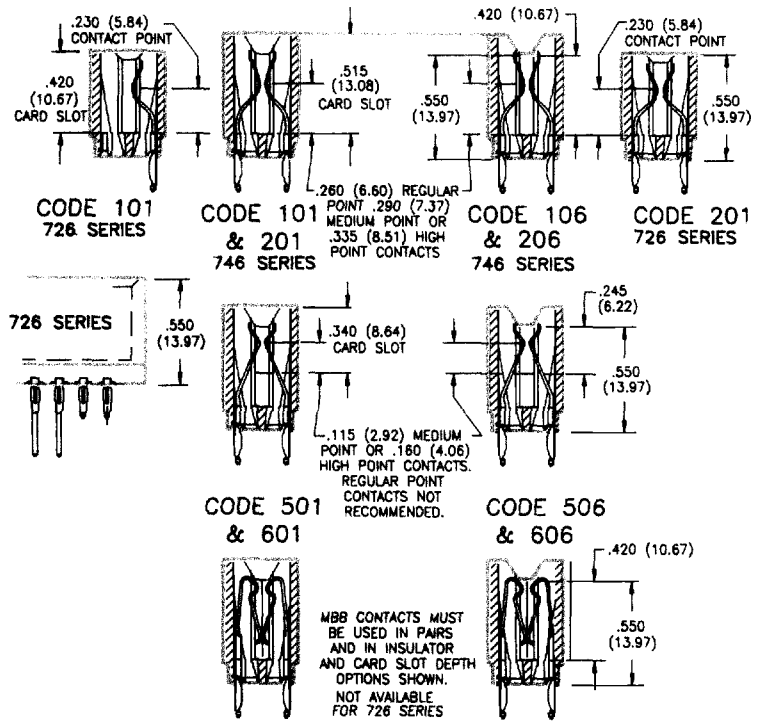


RECOMMENDED MOTHER BOARD HOLE PATTERN

TO OBTAIN OPTIMUM COMPLIANT SECTION PERFORMANCE,
DRILL HOLES .0453 ± .001 (1.15 ± 0.03) DIAMETER
COPPER PLATE, .001 (25.4 MICRONS) MINIMUM THICKNESS,
FOLLOWED BY TIN-LEAD PLATE TO PROVIDE FINISHED
HOLES .040 ± .003 (1.02 ± 0.08) DIAMETER

SECTIONS "Y" - "Y" CONTACT ROWS & INSULATOR OPTIONS

Single Row Versions May Require Backup Springs
Depending on the Application. Consult with EDAC for Details.



RECOMMENDED DAUGHTER BOARD

NUMBER OF CONTACTS		"C"		"D"		"E"	
Single	Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)
5	10	.760	(19.30)	.600	(15.24)	.400	(10.16)
10	20	1.260	(32.00)	1.100	(27.94)	.900	(22.86)
15	30	1.760	(44.70)	1.600	(40.64)	1.400	(35.56)
18	36	2.060	(52.32)	1.900	(48.26)	1.700	(43.18)
22	44	2.460	(62.48)	2.300	(58.42)	2.100	(53.34)
25	50	2.760	(70.10)	2.600	(66.04)	2.400	(60.96)
28	56	3.060	(77.72)	2.900	(73.66)	2.700	(68.58)
30	60	3.260	(82.80)	3.100	(78.74)	2.900	(73.66)
31	62	3.360	(85.34)	3.200	(81.28)	3.000	(76.20)
35	70	3.760	(95.50)	3.600	(91.44)	3.400	(86.36)
36	72	3.860	(98.04)	3.700	(93.98)	3.500	(88.90)
43	86	4.560	(115.82)	4.400	(111.76)	4.200	(106.68)
50	100	5.260	(133.60)	5.100	(129.54)	4.900	(124.46)
75	150	7.760	(197.10)	7.600	(193.04)	7.400	(187.96)

Dimensions of Other Connector Sizes are Listed on Page 84