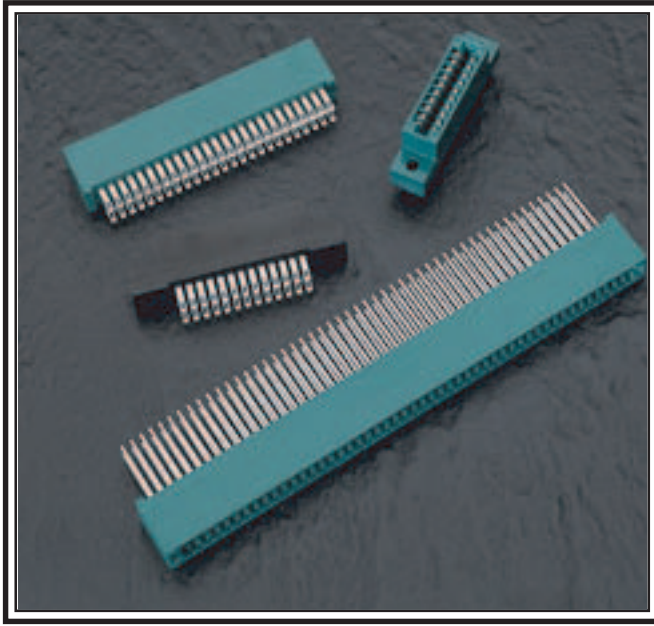


342/392 SERIES CARD EDGE CONNECTOR

.100" (2.54mm) Contact Spacing



FEATURES

- UL Recognized
- .100 (2.54) Contact Spacing x .200 (5.08) Row Spacing
- Accepts .062 (1.57) Nominal Thickness P.C. Board
- High Profile Insulator Body, .590 (14.99)
- Contact Termination Options include P.C. Tail, Wire Hole, Wire Wrap, 90 Degree & Extender Board Bends
- Single or Dual Row Configurations
- Variety of Mounting Options
- Accepts Between Contact and In-Contact Polarizing Keys
- Design based on Requirements of HE 901 Specification

SPECIFICATIONS

- ◆ Insulator Material: Thermoplastic Polyester, UL 94V-0
- ◆ Contact Material: Copper, Nickel, Tin Alloy CA-725
- ◆ Contact Plating: Gold on the Mating Area, Tin on the Contact Tails, Nickel Underplate
- ◆ Current Rating: 3 Amperes Continuous
- ◆ Contact Resistance: 10 Milliohms Maximum
- ◆ Dielectric Withstanding Voltage: 1200 V AC rms at Sea Level Between Adjacent Contacts
- ◆ Insulation Resistance: 5000 Megohms Minimum
- ◆ Operating Temperature: -65 to +105 Degrees C
- ◆ Insertion Force: 16 oz (4.45 N) Maximum per Contact Pair when Tested with a .070 (1.78) Thick Gauge
- ◆ Withdrawal Force: 1 oz (0.28 N) Minimum per Contact Pair when Tested with a .054 (1.37) Thick Gauge

342/392 SERIES ORDERING CODE

Example Part Number **342 - 100 - 541 - 2 02**

Series _____
Total Number of Contacts _____
Contact Code _____
Contact Rows _____
Mounting Options _____

Series	Insulator Colour
342	Green
392	Black

Total Number of Contacts ¹	Contact Rows
005, 006,...058	Single Row
010, 012,...116	Dual Row

Contact Code ^{2,3}	Description & Tail Size	Tail Length "G"
500	Wire Hole .050 x .025 (1.27 x 0.64)	.270 (6.86)
520	P.C. Tail .030 x .018 (0.76 x 0.46)	.185 (4.70)
521	P.C. Tail .025 Square (0.64 Square)	.160 (4.06)
523	P.C. Tail .025 Square (0.64 Square)	.400 (10.16)
524	P.C. Tail .018 Square (0.46 Square)	.185 (4.70)
540	Wire Wrap .025 Square (0.64 Square)	.570 (14.48)
541	Wire Wrap .025 Square (0.64 Square)	.760 (19.30)
542	Wire Wrap .025 Square (0.64 Square)	.655 (16.64)
544	Wire Wrap .050 x .025 (1.27 x 0.64)	.760 (19.30)
555	Extender Board Bend (Code 500 Contacts)	
556	Extender Board Bend (Code 520 Contacts)	
558	90 Degree Bend (Code 541 Contacts)	
559	90 Degree Bend (Code 541 Contacts)	
560	Extender Board Bend (Code 523 Contacts)	

Contact Rows	Description
1	Single Row
2	Dual Row

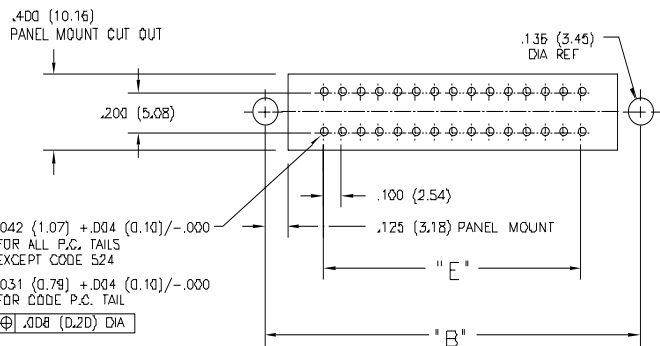
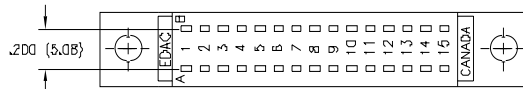
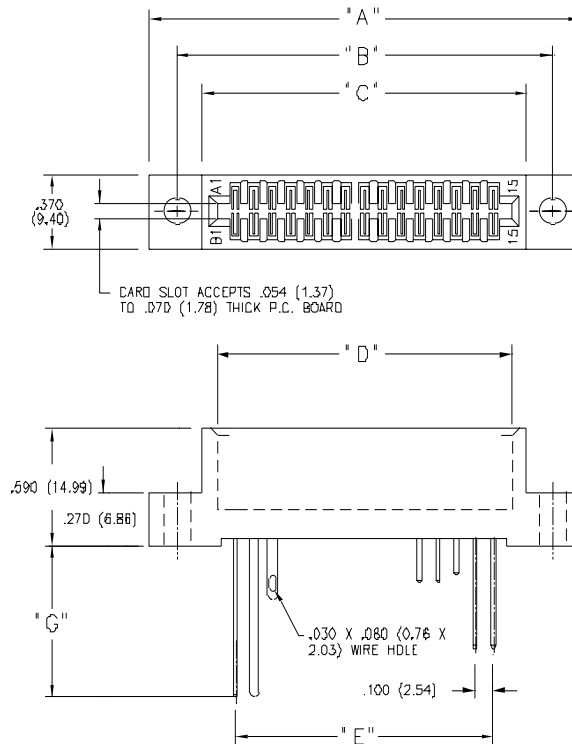
Mounting Options ⁴	Description
01	No Mounting Lugs
02	.128 (3.25) Wide Mounting Slots
03	.116 (2.95) I.D. Floating Eyelets
04	.156 (3.96) Dia. Mounting Holes
07	M3-0.5 Metric Threaded Inserts
08	#4-40 Unified Threaded Inserts
12	.128 (3.25) Dia. Side Mounting Holes

Ordering Code Notes

- 1) All connector sizes up to 58 contacts single row / 116 contacts dual row are available upon request.
- 2) The 500 contact code is only available in the 342 series. Green polyphenylene sulphide insulator material will be supplied.
- 3) For details of the extender board and 90 degree bends, refer to page 66.
- 4) For details of the mounting options, refer to page 68.

CARD EDGE CONNECTOR SERIES 342/392

Contact Spacing .100" (2.54mm)



CONNECTOR MOUNTING PATTERN

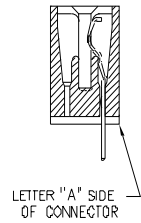
IN-CONTACT
POLARIZING KEY

P/N 345-240-328

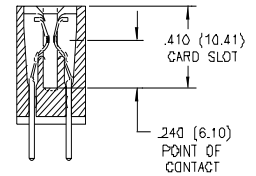


BETWEEN CONTACT
POLARIZING KEY

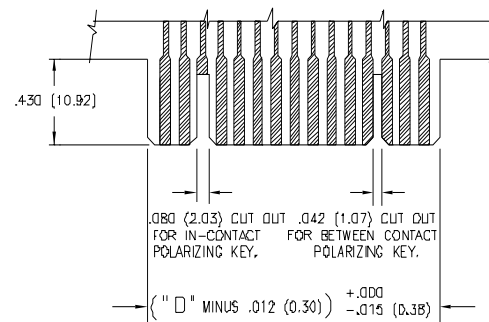
P/N 342-240-318



SINGLE ROW



DUAL ROW



RECOMMENDED DAUGHTER BOARD

NUMBER OF CONTACTS		"A"		"B"		"C"		"D"		"E"	
Single	Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
5	10	1.300	(33.02)	1.022	(25.96)	.746	(18.95)	.600	(15.24)	.400	(10.16)
10	20	1.800	(45.72)	1.522	(38.66)	1.246	(31.65)	1.100	(27.94)	.900	(22.86)
13	26	2.100	(53.34)	1.822	(46.28)	1.546	(39.27)	1.400	(35.56)	1.200	(30.48)
15	30	2.300	(58.42)	2.022	(51.36)	1.746	(44.35)	1.600	(40.64)	1.400	(35.56)
18	36	2.600	(66.04)	2.322	(58.98)	2.046	(51.97)	1.900	(48.26)	1.700	(43.18)
22	44	3.000	(76.20)	2.722	(69.14)	2.446	(62.13)	2.300	(58.42)	2.100	(53.34)
25	50	3.300	(83.82)	3.022	(76.76)	2.746	(69.75)	2.600	(66.04)	2.400	(60.96)
30	60	3.800	(96.52)	3.522	(89.46)	3.246	(82.45)	3.100	(78.74)	2.900	(73.66)
31	62	3.900	(99.06)	3.622	(92.00)	3.346	(84.99)	3.200	(81.28)	3.000	(76.20)
35	70	4.300	(109.22)	4.022	(102.16)	3.746	(95.15)	3.600	(91.44)	3.400	(86.36)
36	72	4.400	(111.76)	4.122	(104.70)	3.846	(97.69)	3.700	(93.98)	3.500	(88.90)
43	86	5.100	(129.54)	4.822	(122.48)	4.546	(115.47)	4.400	(111.76)	4.200	(106.68)
50	100	5.800	(147.32)	5.522	(140.26)	5.246	(133.25)	5.100	(129.54)	4.900	(124.46)
58	116	6.600	(167.64)	6.322	(160.58)	6.046	(153.57)	5.900	(149.86)	5.700	(144.78)

Dimensions of Other Connector Sizes are Listed on Page 72

.100" (2.54mm) CONTACT SPACING CONNECTOR DIMENSIONS

325, 340, 341, 342, 345, 391, 392, 395, 745 Series Card Edge Connectors

DIMENSION						"A"						"B"						
SERIES	325		340		341, 391		342, 392		345, 395		325		340		341, 391 345, 395		342, 392	
Number of Contacts Single Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
5 10	1.355	(34.42)	1.900	(48.26)	1.375	(34.93)	1.300	(33.02)	1.335	(33.91)	1.056	(26.82)	1.400	(35.56)	1.075	(27.31)	1.022	(25.96)
6 12	1.455	(36.96)	2.000	(50.80)	1.475	(37.47)	1.400	(35.56)	1.435	(36.45)	1.156	(29.36)	1.500	(38.10)	1.175	(29.85)	1.122	(28.50)
7 14	1.555	(39.50)	2.100	(53.34)	1.575	(40.01)	1.500	(38.10)	1.535	(38.99)	1.256	(31.90)	1.600	(40.64)	1.275	(32.39)	1.222	(31.04)
8 16	1.655	(42.04)	2.200	(55.88)	1.675	(42.55)	1.600	(40.64)	1.635	(41.53)	1.356	(34.44)	1.700	(43.18)	1.375	(34.93)	1.322	(33.58)
9 18	1.755	(44.58)	2.300	(58.42)	1.775	(45.09)	1.700	(43.18)	1.735	(44.07)	1.456	(36.98)	1.800	(45.72)	1.475	(37.47)	1.422	(36.12)
10 20	1.855	(47.12)	2.400	(60.96)	1.875	(47.63)	1.800	(45.72)	1.835	(46.61)	1.556	(39.52)	1.900	(48.26)	1.575	(40.01)	1.522	(38.66)
11 22	1.955	(49.66)	2.500	(63.50)	1.975	(50.17)	1.900	(48.26)	1.935	(49.15)	1.656	(42.06)	2.000	(50.80)	1.675	(42.55)	1.622	(41.20)
12 24	2.055	(52.20)	2.600	(66.04)	2.075	(52.71)	2.000	(50.80)	2.035	(51.69)	1.756	(44.60)	2.100	(53.34)	1.775	(45.09)	1.722	(43.74)
13 26	2.155	(54.74)	2.700	(68.58)	2.175	(55.25)	2.100	(53.34)	2.135	(54.23)	1.856	(47.14)	2.200	(55.88)	1.875	(47.63)	1.822	(46.28)
14 28	2.255	(57.28)	2.800	(71.12)	2.275	(57.79)	2.200	(55.88)	2.235	(56.77)	1.956	(49.68)	2.300	(58.42)	1.975	(50.17)	1.922	(48.82)
15 30	2.355	(59.82)	2.900	(73.66)	2.375	(60.33)	2.300	(58.42)	2.335	(59.31)	2.056	(52.22)	2.400	(60.96)	2.075	(52.71)	2.022	(51.36)
16 32	2.455	(62.36)	3.000	(76.20)	2.475	(62.87)	2.400	(60.96)	2.435	(61.85)	2.156	(54.76)	2.500	(63.50)	2.175	(55.25)	2.122	(53.90)
17 34	2.555	(64.90)	3.100	(78.74)	2.575	(65.41)	2.500	(63.50)	2.535	(64.39)	2.256	(57.30)	2.600	(66.04)	2.275	(57.79)	2.222	(56.44)
18 36	2.655	(67.44)	3.200	(81.28)	2.675	(67.95)	2.600	(66.04)	2.635	(66.93)	2.356	(59.84)	2.700	(68.58)	2.375	(60.33)	2.322	(58.98)
19 38	2.755	(69.98)	3.300	(83.82)	2.775	(70.49)	2.700	(68.58)	2.735	(69.47)	2.456	(62.38)	2.800	(71.12)	2.475	(62.87)	2.422	(61.52)
20 40	2.855	(72.52)	3.400	(86.36)	2.875	(73.03)	2.800	(71.12)	2.835	(72.01)	2.556	(64.92)	2.900	(73.66)	2.575	(65.41)	2.522	(64.06)
21 42	2.955	(75.06)	3.500	(88.90)	2.975	(75.57)	2.900	(73.66)	2.935	(74.55)	2.656	(67.46)	3.000	(76.20)	2.675	(67.95)	2.622	(66.60)
22 44	3.055	(77.60)	3.600	(91.44)	3.075	(78.11)	3.000	(76.20)	3.035	(77.09)	2.756	(70.00)	3.100	(78.74)	2.775	(70.49)	2.722	(69.14)
23 46	3.155	(80.14)	3.700	(93.98)	3.175	(80.65)	3.100	(78.74)	3.135	(79.63)	2.856	(72.54)	3.200	(81.28)	2.875	(73.03)	2.822	(71.68)
24 48	3.255	(82.68)	3.800	(96.52)	3.275	(83.19)	3.200	(81.28)	3.235	(82.17)	2.956	(75.08)	3.300	(83.82)	2.975	(75.57)	2.922	(74.22)
25 50	3.355	(85.22)	3.900	(99.06)	3.375	(85.73)	3.300	(83.82)	3.335	(84.71)	3.056	(77.62)	3.400	(86.36)	3.075	(78.11)	3.022	(76.76)
26 52	3.455	(87.76)	4.000	(101.60)	3.475	(88.27)	3.400	(86.36)	3.435	(87.25)	3.156	(80.16)	3.500	(88.90)	3.175	(80.65)	3.122	(79.30)
27 54	3.555	(90.30)	4.100	(104.14)	3.575	(90.81)	3.500	(88.90)	3.535	(89.79)	3.256	(82.70)	3.600	(91.44)	3.275	(83.19)	3.222	(81.84)
28 56	3.655	(92.84)	4.200	(106.68)	3.675	(93.35)	3.600	(91.44)	3.635	(92.33)	3.356	(85.24)	3.700	(93.98)	3.375	(85.73)	3.322	(84.38)
29 58	3.755	(95.38)	4.300	(109.22)	3.775	(95.89)	3.700	(93.98)	3.735	(94.87)	3.456	(87.78)	3.800	(96.52)	3.475	(88.27)	3.422	(86.92)
30 60	3.855	(97.92)	4.400	(111.76)	3.875	(98.43)	3.800	(96.52)	3.835	(97.41)	3.556	(90.32)	3.900	(99.06)	3.575	(90.81)	3.522	(89.46)
31 62	3.955	(100.46)	4.500	(114.30)	3.975	(100.97)	3.900	(99.06)	3.935	(99.95)	3.656	(92.86)	4.000	(101.60)	3.675	(93.35)	3.622	(92.00)
32 64	4.055	(103.00)	4.600	(116.84)	4.075	(103.51)	4.000	(101.60)	4.035	(102.49)	3.756	(95.40)	4.100	(104.14)	3.775	(95.89)	3.722	(94.54)
33 66	4.155	(105.54)	4.700	(119.38)	4.175	(106.05)	4.100	(104.14)	4.135	(105.03)	3.856	(97.94)	4.200	(106.68)	3.875	(98.43)	3.822	(97.08)
34 68	4.255	(108.08)	4.800	(121.92)	4.275	(108.59)	4.200	(106.68)	4.235	(107.57)	3.956	(100.48)	4.300	(109.22)	3.975	(100.97)	3.922	(99.62)
35 70	4.355	(110.62)	4.900	(124.46)	4.375	(111.13)	4.300	(109.22)	4.335	(110.11)	4.056	(103.02)	4.400	(111.76)	4.075	(103.51)	4.022	(102.16)
36 72	4.455	(113.16)	5.000	(127.00)	4.475	(113.67)	4.400	(111.76)	4.435	(112.65)	4.156	(105.56)	4.500	(114.30)	4.175	(106.05)	4.122	(104.70)
37 74	4.555	(115.70)	5.100	(129.54)	4.575	(116.21)	4.500	(114.30)	4.535	(115.19)	4.256	(108.10)	4.600	(116.84)	4.275	(108.59)	4.222	(107.24)
38 76	4.655	(118.24)	5.200	(132.08)	4.675	(118.75)	4.600	(116.84)	4.635	(117.73)	4.356	(110.64)	4.700	(119.38)	4.375	(111.13)	4.322	(109.78)
39 78	4.755	(120.78)	5.300	(134.62)	4.775	(121.29)	4.700	(119.38)	4.735	(120.27)	4.456	(113.18)	4.800	(121.92)	4.475	(113.67)	4.422	(112.32)
40 80	4.855	(123.32)	5.400	(137.16)	4.875	(123.83)	4.800	(121.92)	4.835	(122.81)	4.556	(115.72)	4.900	(124.46)	4.575	(116.21)	4.522	(114.86)
41 82	4.955	(125.86)	5.500	(139.70)	4.975	(126.37)	4.900	(124.46)	4.935	(125.35)	4.656	(118.26)	5.000	(127.00)	4.675	(118.75)	4.622	(117.40)
42 84	5.055	(128.40)	5.600	(142.24)	5.075	(128.91)	5.000	(127.00)	5.035	(127.89)	4.756	(120.80)	5.100	(129.54)	4.775	(121.29)	4.722	(119.94)
43 86	5.155	(130.94)	5.700	(144.78)	5.175	(131.45)	5.100	(129.54)	5.135	(130.43)	4.856	(123.34)	5.200	(132.08)	4.875	(123.83)	4.822	(122.48)
44 88	5.255	(133.48)	5.800	(147.32)	5.275	(133.99)	5.200	(132.08)	5.235	(132.97)	4.956	(125.88)	5.300	(134.62)	4.975	(126.37)	4.922	(125.02)
45 90	5.355	(136.02)	5.900	(149.86)	5.375	(136.53)	5.300	(134.62)	5.335	(135.51)	5.056	(128.42)	5.400	(137.16)	5.075	(128.91)	5.022	(127.56)
46 92	5.455	(138.56)	6.000	(152.40)	5.475	(139.07)	5.400	(137.16)	5.435	(138.05)	5.156	(130.96)	5.500	(139.70)	5.175	(131.45)	5.122	(130.10)
47 94	5.555	(141.10)	6.100	(154.94)	5.575	(141.61)	5.500	(139.70)	5.535	(140.59)	5.256	(133.50)	5.600	(142.24)	5.275	(133.99)	5.222	(132.64)
48 96	5.655	(143.64)	6.200	(157.48)	5.675	(144.15)	5.600	(142.24)	5.635	(143.13)	5.356	(136.04)	5.700	(144.78)	5.375	(136.53)	5.322	(135.18)
49 98	5.755	(146.18)	6.300	(160.02)	5.775	(146.69)	5.700	(144.78)	5.735	(145.67)	5.456	(138.58)	5.800	(147.32)	5.475	(139.07)	5.422	(137.72)
50 100	5.855	(148.72)	6.400	(162.56)	5.875	(149.23)	5.800	(147.32)	5.835	(148.21)	5.556	(141.12)	5.900	(149.86)	5.575	(141.61)	5.522	(140.26)
51 102	5.955	(151.26)	6.500	(165.10)	5.975	(151.77)	5.900	(149.86)	5.935	(150.75)	5.656	(143.66)	6.000	(152.40)	5.675	(144.15)	5.622	(142.80)
52 104	6.055	(153.80)	6.600	(167.64)	6.075	(154.31)	6.000	(152.40)	6.035	(153.29)	5.756	(146.20)	6.100	(154.94)	5.775	(146.69)	5.722	(145.34)
53 106	6.155	(156.34)	6.700	(170.18)	6.175	(156.85)	6.100	(154.94)	6.135	(155.83)	5.856	(148.74)	6.200	(157.48)	5.875	(149.23)	5.822	(147.88)

Card Edge Connector Series 325, 340, 341, 342, 345, 391, 392, 395, 745

The diagram shows a cross-section of a composite material. It consists of four main layers labeled A, B, C, and D from top to bottom. Layer A is the thickest, followed by B, C, and D. Below these layers is a base layer labeled F, which is a series of vertical lines representing a substrate or reinforcement. Dimension lines with arrows indicate the thickness of each layer and the total thickness of the composite.

MOUNTING OPTIONS - CARD EDGE CONNECTORS

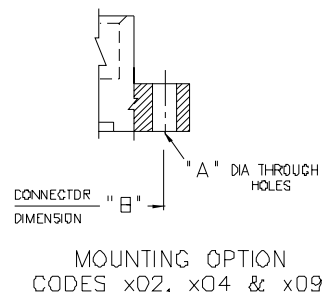
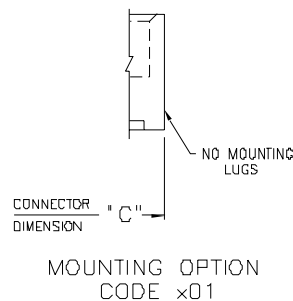
Standard Mounting Details

CODE x01 - NO MOUNTING LUGS

- Applicable for 303, 305, 306, 307, 310, 315, 316, 317, 321, 325, 327, 333, 336, 337, 338, 340, 341, 342, 345, 346, 355, 356, 357, 379, 384, 387, 391, 392, 395 and 396 Series

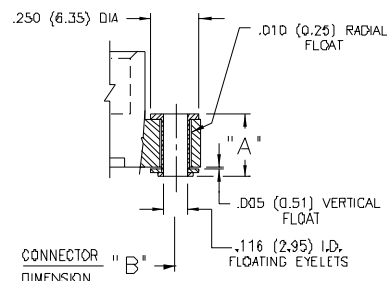
CODE x02, x04 & x09 - THROUGH MOUNTING HOLES

Applicable Series	Code x02 "A" Dia.	Code x04 "A" Dia.	Code x09 "A" Dia.
303, 305, 306, 307, 310, 315, 316, 321, 333, 337, 338, 340, 341, 345, 346, 355, 356, 357, 379, 384, 387, 391, 395, 396	.128 (3.25)	.156 (3.96)	—
317, 323	.144 (3.66)	.156 (3.96)	—
325	—	—	.160 (4.06)
327	—	—	.163 (4.14)
336	.128 (3.25)	.156 (3.96)	.178 (4.52)
342, 392	.128 (3.25) x .146 (3.71) Slot	.156 (3.96)	—



CODE x03 - FLOATING EYELETS

Applicable Series	"A"
303, 305, 306, 307, 310, 315, 316, 317, 321, 323, 333, 336, 337, 338, 341, 345, 346, 355, 356, 357, 379, 384, 387, 391, 395, 396	.328 (8.33)
342, 392	.348 (8.84)



MOUNTING OPTION
CODE x03

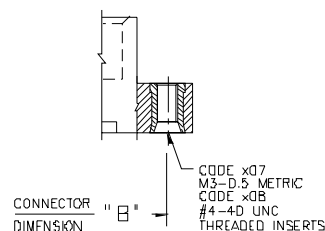
CODE x07 & x08 - THREADED INSERTS

- Applicable for 303, 305, 306, 307, 310, 315, 316, 317, 321, 323, 325, 333, 336, 337, 338, 341, 342, 345, 346, 356, 357, 379, 384, 387, 391, 392, 395 and 396 Series
- See Code x12 for Side Mounting Threaded Inserts

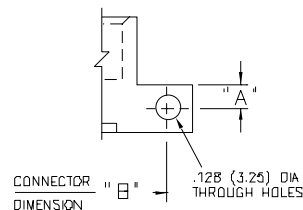
CODE x12 - SIDE MOUNTING HOLES

Applicable Series	"A"
307, 333, 337, 345, 346, 357, 387, 395, 396	.125 (3.18)
342, 392	.135 (3.43)

- Series Listed Above based on Availability of 90 Degree Bend Contact Tails. Side Mounting Holes may also be Used for Other Card Edge Connectors with a Lug Height of .250 (6.35) or Greater.
- For Side Mounting with Threaded Inserts, Specify Code x17 for M3-0.5 Metric Threads or Code x18 for #4-40 Unified Threads.



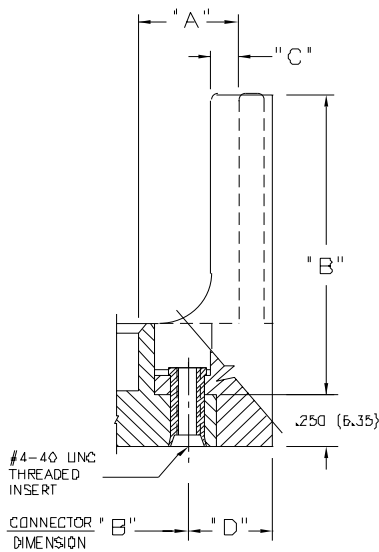
MOUNTING OPTION
CODES x07 & x08



MOUNTING OPTION
CODE x12

CARD EDGE CONNECTORS - MOUNTING OPTIONS

Standard Mounting Details

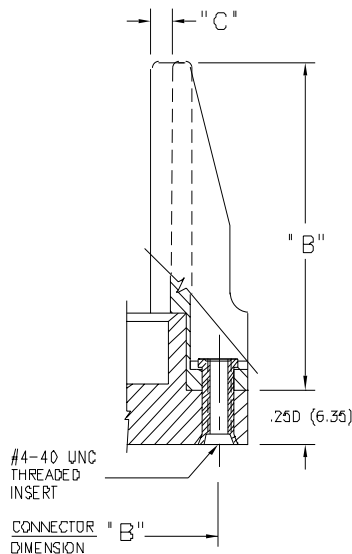


MOUNTING OPTION
CODES x58 & x68

CODE x58 & x68 - OFFSET CARD GUIDES

Applicable Series for Code x58 Guides	"A"	"B"	"C"	"D"
305, 306, 307, 315, 316, 337, 338, 355, 356, 357, 387	.468(11.89)	2.755(69.98)	.125 (3.18)	.423(10.74)
345, 395	.468(11.89)	2.755(69.98)	.120 (3.05)	.402(10.21)
346, 396	.468(11.89)	2.755(69.98)	.120 (3.05)	.398(10.11)
Applicable Series for Code x68 Guides	"A"	"B"	"C"	"D"
305, 306, 307, 315, 316, 337, 338, 355, 356, 357, 387	.344 (8.74)	2.505(63.63)	.060 (1.52)	.242 (6.15)

- For Card Guides with .128 (3.25) Dia. Through Hole Inserts, Specify Code x52 or x62.
- For Card Guides with M3-0.5 Metric Threaded Inserts, Specify Code x57 or x67.
- For Field Assembly of Card Guides, Refer to Page 71.



MOUNTING OPTION
CODES x78 & x88

CODE x78 & x88 - IN-LINE CARD GUIDES

Applicable Series for Code x78 Guides	"B"	"C"
305, 306, 307, 315, 316, 337, 338, 355, 356, 357, 387	1.550(39.37)	.090(2.29)
317	1.712(43.48)	.110(2.79)
345, 395	2.750(69.85)	.083(2.11)
346, 396	2.750(69.85)	.091(2.31)
Applicable Series for Code x88 Guides	"B"	"C"
345, 395	1.250(31.75)	.083(2.11)

- In-Line Card Guides are Not Suitable for the Flush Mounting Lug Versions of 337, 387, 346 or 396 Series
- For Card Guides with .128 (3.25) Dia. Through Hole Inserts, Specify Code x72 or x82.
- For Card Guides with M3-0.5 Metric Threaded Inserts, Specify Code x77 or x87
- For Field Assembly of Card Guides, Refer to Page 71.