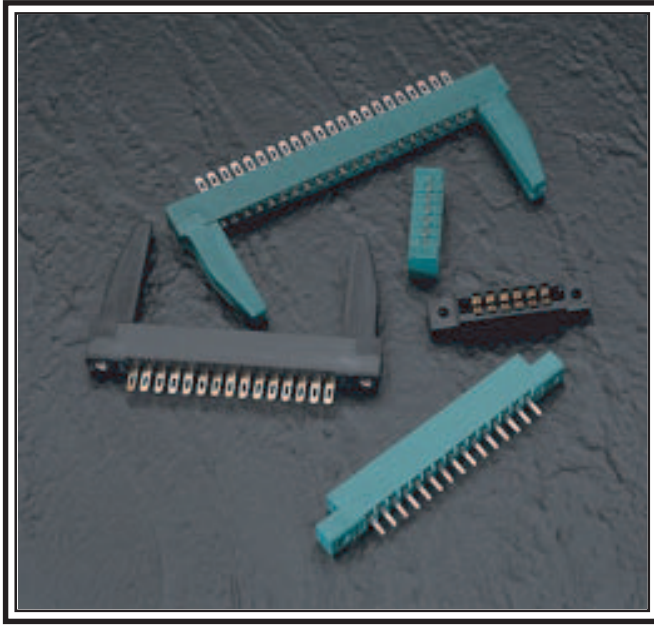


306/316/356 SERIES CARD EDGE CONNECTOR

.156" (3.96mm) Contact Spacing



306/316/356 SERIES ORDERING CODE

Example Part Number **306 - 022 - 521 - 178**

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

Series	Insulator Colour	Card Slot Length
306	Green	Standard Length per MIL-C-21097
316	Green	.020 (0.51) Shorter than Standard
356	Black	Standard Length per MIL-C-21097

Total Number of Contacts ¹	Contact Row
006, 007,...043	Centre Row

Contact Code ²	Description & Tail Size	Tail Length "G"
500	Wire Hole .087 x .015 (2.21 x 0.38)	.282 (7.16)
520	P.C. Tail .046 x .015 (1.17 x 0.38)	.213 (5.41)
521	P.C. Tail .037 x .015 (0.94 x 0.38)	.125 (3.18)

Mounting Options ³	Description
101	No Mounting Lugs
102	.128 (3.25) Dia. Mounting Holes
103	.116 (2.95) I.D. Floating Eyelets
104	.156 (3.96) Dia. Mounting Holes
107	M3-0.5 Metric Threaded Inserts
108	#4-40 Unified Threaded Inserts
158	.468 (11.89) Offset Card Guides
168	.344 (8.74) Offset Card Guides
178	In-Line Card Guides

Ordering Code Notes

- 1) All connector sizes up to 43 contacts centre row are available upon request.
- 2) For contacts with overall tin-lead plating, change the first digit of the contact code from 5 to 4.
- 3) For details of the mounting options, refer to page 68.

FEATURES

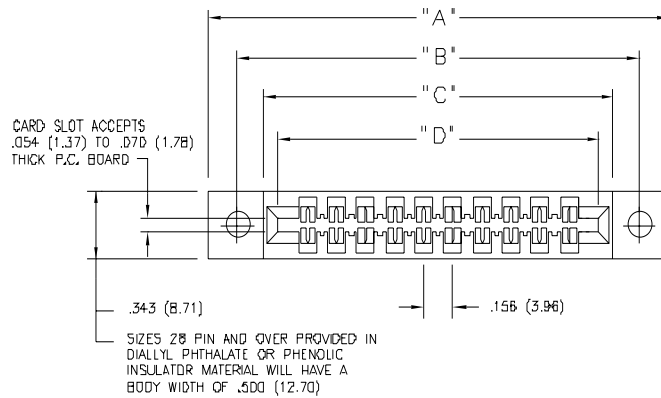
- 306/356 Series CSA Approved and UL Recognized
- 316 Series UL Recognized
- .156 (3.96) Contact Spacing with Single Centreline Row
- Accepts .062 (1.57) Nominal Thickness P.C. Board
- Low Profile Insulator Body, .460 (11.68)
- Contact Termination Options include P.C. Tail & Wire Hole
- Large Variety of Mounting Options
- Pre-assembled Card Guides Available
- Accepts Between Contact and In-Contact Polarizing Keys

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: 5 Amperes Continuous
- ◆ Contact Resistance: 10 Milliohms Maximum
- ◆ Dielectric Withstanding Voltage: 1800 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 when Tested with a .070 (1.78) Thick Gauge
- ◆ Withdrawal Force: 1 oz (0.28 N) Minimum per Contact when Tested with a .054 (1.37) Thick Gauge

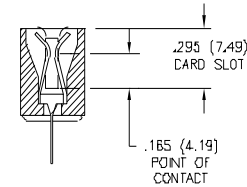
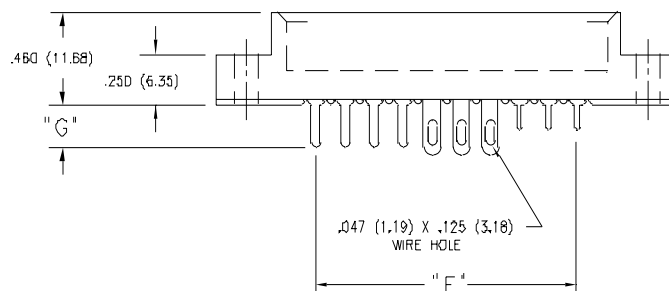
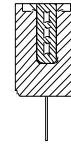
CARD EDGE CONNECTOR SERIES 306/316/356

Contact Spacing .156" (3.96mm)

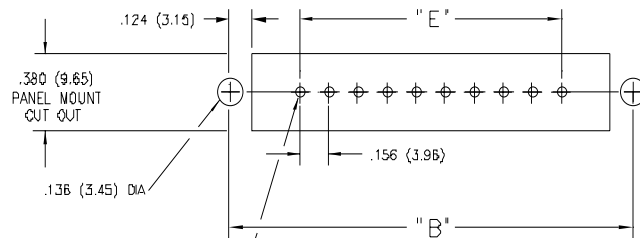
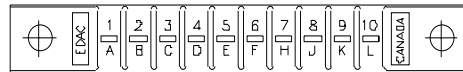


IN-CONTACT
POLARIZING KEY
P/N 338-240-328

BETWEEN CONTACT
POLARIZING KEY
P/N 306-240-318



SECTION THROUGH
CONTACT POSITION

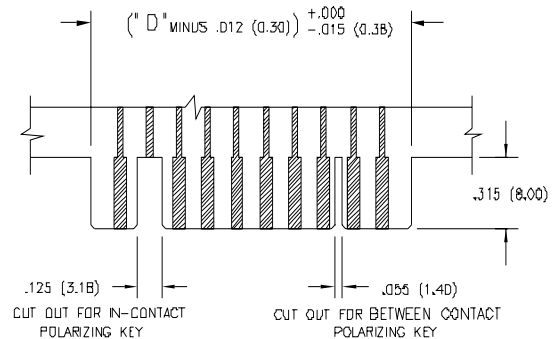


.050 (1.27) DIA +.004 (0.10) /-.000
FOR CODE 520 P.C. TAIL

.041 (1.04) DIA +.004 (0.10) /-.000
FOR CODE 521 P.C. TAIL

Φ .008 (0.20) DIA

CONNECTOR MOUNTING PATTERN



RECOMMENDED DAUGHTER BOARD

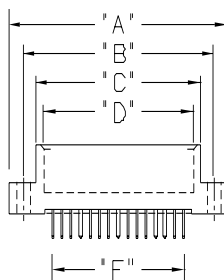
NUMBER OF CONTACTS	"A"	"B"	"C"	"D"		"E"
				306, 356	316	
Single	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6	1.842 (46.79)	1.532 (38.91)	1.246 (31.65)	1.100 (27.94)	1.080 (27.43)	.780 (19.81)
8	2.154 (54.71)	1.844 (46.84)	1.558 (39.57)	1.412 (35.86)	1.392 (35.36)	1.092 (27.74)
10	2.466 (62.64)	2.156 (54.76)	1.870 (47.50)	1.724 (43.79)	1.704 (43.28)	1.404 (35.66)
12	2.778 (70.56)	2.468 (62.69)	2.182 (55.42)	2.036 (51.71)	2.016 (51.21)	1.716 (43.59)
15	3.246 (82.45)	2.936 (74.57)	2.650 (67.31)	2.504 (63.60)	2.484 (63.09)	2.184 (55.47)
18	3.714 (94.34)	3.404 (86.46)	3.118 (79.20)	2.972 (75.49)	2.952 (74.98)	2.652 (67.36)
22	4.338 (110.19)	4.028 (102.31)	3.742 (95.05)	3.596 (91.34)	3.576 (90.83)	3.276 (83.21)
25	4.806 (122.07)	4.496 (114.20)	4.210 (106.93)	4.064 (103.23)	4.044 (102.72)	3.744 (95.10)
28	5.274 (133.96)	4.964 (126.09)	4.678 (118.82)	4.532 (115.11)	4.512 (114.60)	4.212 (106.98)
30	5.586 (141.88)	5.276 (134.01)	4.990 (126.75)	4.844 (123.04)	4.824 (122.53)	4.524 (114.91)
36	6.522 (165.66)	6.212 (157.78)	5.926 (150.52)	5.780 (146.81)	5.760 (146.30)	5.460 (138.68)
40	7.146 (181.51)	6.836 (173.63)	6.550 (166.37)	6.404 (162.66)	6.384 (162.15)	6.084 (154.53)
43	7.614 (193.40)	7.304 (185.52)	7.018 (178.26)	6.872 (174.55)	6.852 (174.04)	6.552 (166.42)

Dimensions of Other Connector Sizes are Listed on Page 74

.156" (3.96mm) CONTACT SPACING CONNECTOR DIMENSIONS

303, 305, 306, 307, 315, 316, 317, 333, 336, 337, 355, 356, 357, 387, 737 Series Card Edge Connectors

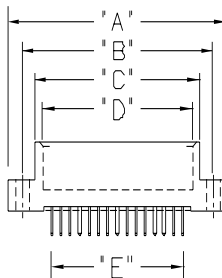
DIMENSION							"A"							"B"						
SERIES		317		333		336		REST OF SERIES		317		333, 336		REST OF SERIES						
Number of Contacts	Single Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)					
6	12	1.830	(46.48)	1.784	(45.31)	1.857	(47.17)	1.842	(46.79)	1.539	(39.09)	1.534	(38.96)	1.532	(38.91)					
7	14	1.986	(50.44)	1.940	(49.28)	2.013	(51.13)	1.998	(50.75)	1.695	(43.05)	1.690	(42.93)	1.688	(42.88)					
8	16	2.142	(54.41)	2.096	(53.24)	2.169	(55.09)	2.154	(54.71)	1.851	(47.02)	1.846	(46.89)	1.844	(46.84)					
9	18	2.298	(58.37)	2.252	(57.20)	2.325	(59.06)	2.310	(58.67)	2.007	(50.98)	2.002	(50.85)	2.000	(50.80)					
10	20	2.454	(62.33)	2.408	(61.16)	2.481	(63.02)	2.466	(62.64)	2.163	(54.94)	2.158	(54.81)	2.156	(54.76)					
11	22	2.610	(66.29)	2.564	(65.13)	2.637	(66.98)	2.622	(66.60)	2.319	(58.90)	2.314	(58.78)	2.312	(58.72)					
12	24	2.766	(70.26)	2.720	(69.09)	2.793	(70.94)	2.778	(70.56)	2.475	(62.87)	2.470	(62.74)	2.468	(62.69)					
13	26	2.922	(74.22)	2.876	(73.05)	2.949	(74.90)	2.934	(74.52)	2.631	(66.83)	2.626	(66.70)	2.624	(66.65)					
14	28	3.078	(78.18)	3.032	(77.01)	3.105	(78.87)	3.090	(78.49)	2.787	(70.79)	2.782	(70.66)	2.780	(70.61)					
15	30	3.234	(82.14)	3.188	(80.98)	3.261	(82.83)	3.246	(82.45)	2.943	(74.75)	2.938	(74.63)	2.936	(74.57)					
16	32	3.390	(86.11)	3.344	(84.94)	3.417	(86.79)	3.402	(86.41)	3.099	(78.71)	3.094	(78.59)	3.092	(78.54)					
17	34	3.546	(90.07)	3.500	(88.90)	3.573	(90.75)	3.558	(90.37)	3.255	(82.68)	3.250	(82.55)	3.248	(82.50)					
18	36	3.702	(94.03)	3.656	(92.86)	3.729	(94.72)	3.714	(94.34)	3.411	(86.64)	3.406	(86.51)	3.404	(86.46)					
19	38	3.858	(97.99)	3.812	(96.82)	3.885	(98.68)	3.870	(98.30)	3.567	(90.60)	3.562	(90.47)	3.560	(90.42)					
20	40	4.014	(101.96)	3.968	(100.79)	4.041	(102.64)	4.026	(102.26)	3.723	(94.56)	3.718	(94.44)	3.716	(94.39)					
21	42	4.170	(105.92)	4.124	(104.75)	4.197	(106.60)	4.182	(106.22)	3.879	(98.53)	3.874	(98.40)	3.872	(98.35)					
22	44	4.326	(109.88)	4.280	(108.71)	4.353	(110.57)	4.338	(110.19)	4.035	(102.49)	4.030	(102.36)	4.028	(102.31)					
23	46	4.482	(113.84)	4.436	(112.67)	4.509	(114.53)	4.494	(114.15)	4.191	(106.45)	4.186	(106.32)	4.184	(106.27)					
24	48	4.638	(117.81)	4.592	(116.64)	4.665	(118.49)	4.650	(118.11)	4.347	(110.41)	4.342	(110.29)	4.340	(110.24)					
25	50	4.794	(121.77)	4.748	(120.60)	4.821	(122.45)	4.806	(122.07)	4.503	(114.38)	4.498	(114.25)	4.496	(114.20)					
26	52	4.950	(125.73)	4.904	(124.56)	4.977	(126.42)	4.962	(126.03)	4.659	(118.34)	4.654	(118.21)	4.652	(118.16)					
27	54	5.106	(129.69)	5.060	(128.52)	5.133	(130.38)	5.118	(130.00)	4.815	(122.30)	4.810	(122.17)	4.808	(122.12)					
28	56	5.262	(133.65)	5.216	(132.49)	5.289	(134.34)	5.274	(133.96)	4.971	(126.26)	4.966	(126.14)	4.964	(126.09)					
29	58	5.418	(137.62)	5.372	(136.45)	5.445	(138.30)	5.430	(137.92)	5.127	(130.23)	5.122	(130.10)	5.120	(130.05)					
30	60	5.574	(141.58)	5.528	(140.41)	5.601	(142.27)	5.586	(141.88)	5.283	(134.19)	5.278	(134.06)	5.276	(134.01)					
31	62	5.730	(145.54)	5.684	(144.37)	5.757	(146.23)	5.742	(145.85)	5.439	(138.15)	5.434	(138.02)	5.432	(137.97)					
32	64	5.886	(149.50)	5.840	(148.34)	5.913	(150.19)	5.898	(149.81)	5.595	(142.11)	5.590	(141.99)	5.588	(141.94)					
33	66	6.042	(153.47)	5.996	(152.30)	6.069	(154.15)	6.054	(153.77)	5.751	(146.08)	5.746	(145.95)	5.744	(145.90)					
34	68	6.198	(157.43)	6.152	(156.26)	6.225	(158.12)	6.210	(157.73)	5.907	(150.04)	5.902	(149.91)	5.900	(149.86)					
35	70	6.354	(161.39)	6.308	(160.22)	6.381	(162.08)	6.366	(161.70)	6.063	(154.00)	6.058	(153.87)	6.056	(153.82)					
36	72	6.510	(165.35)	6.464	(164.19)	6.537	(166.04)	6.522	(165.66)	6.219	(157.96)	6.214	(157.84)	6.212	(157.78)					
37	74	6.666	(169.32)	6.620	(168.15)	6.693	(170.00)	6.678	(169.62)	6.375	(161.93)	6.370	(161.80)	6.368	(161.75)					
38	76	6.822	(173.28)	6.776	(172.11)	6.849	(173.96)	6.834	(173.58)	6.531	(165.89)	6.526	(165.76)	6.524	(165.71)					
39	78	6.978	(177.24)	6.932	(176.07)	7.005	(177.93)	6.990	(177.55)	6.687	(169.85)	6.682	(169.72)	6.680	(169.67)					
40	80	7.134	(181.20)	7.088	(180.04)	7.161	(181.89)	7.146	(181.51)	6.843	(173.81)	6.838	(173.69)	6.836	(173.63)					
41	82	7.290	(185.17)	7.244	(184.00)	7.317	(185.85)	7.302	(185.47)	6.999	(177.77)	6.994	(177.65)	6.992	(177.60)					
42	84	7.446	(189.13)	7.400	(187.96)	7.473	(189.81)	7.458	(189.43)	7.155	(181.74)	7.150	(181.61)	7.148	(181.56)					
43	86	7.602	(193.09)	7.556	(191.92)	7.629	(193.78)	7.614	(193.40)	7.311	(185.70)	7.306	(185.57)	7.304	(185.52)					
44	88							7.770	(197.36)					7.460	(189.48)					



CONNECTOR DIMENSIONS CONTACT SPACING .156" (3.96mm)

Card Edge Connector Series 303, 305, 306, 307, 315, 316, 317, 333, 336, 337, 355, 356, 357, 387, 737

DIMENSION "C"					"D"		"E"	
SERIES	303, 317		333	336	REST OF SERIES	315, 316	REST OF SERIES	ALL SERIES
Number of Contacts Single Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
6 12	1.220	(30.99)	1.261	(32.03)	1.216	(30.89)	1.080	(27.43)
7 14	1.376	(34.95)	1.417	(35.99)	1.372	(34.85)	1.236	(31.39)
8 16	1.532	(38.91)	1.573	(39.95)	1.528	(38.81)	1.392	(35.36)
9 18	1.688	(42.88)	1.729	(43.92)	1.684	(42.77)	1.548	(39.32)
10 20	1.844	(46.84)	1.885	(47.88)	1.840	(46.74)	1.704	(43.28)
11 22	2.000	(50.80)	2.041	(51.84)	1.996	(50.70)	1.860	(47.24)
12 24	2.156	(54.76)	2.197	(55.80)	2.152	(54.66)	2.016	(51.21)
13 26	2.312	(58.72)	2.353	(59.77)	2.308	(58.62)	2.172	(55.17)
14 28	2.468	(62.69)	2.509	(63.73)	2.464	(62.59)	2.328	(59.13)
15 30	2.624	(66.65)	2.665	(67.69)	2.620	(66.55)	2.484	(63.09)
16 32	2.780	(70.61)	2.821	(71.65)	2.776	(70.51)	2.640	(67.06)
17 34	2.936	(74.57)	2.977	(75.62)	2.932	(74.47)	2.796	(71.02)
18 36	3.092	(78.54)	3.133	(79.58)	3.088	(78.44)	2.952	(74.98)
19 38	3.248	(82.50)	3.289	(83.54)	3.244	(82.40)	3.108	(78.94)
20 40	3.404	(86.46)	3.445	(87.50)	3.400	(86.36)	3.264	(82.91)
21 42	3.560	(90.42)	3.601	(91.47)	3.556	(90.32)	3.420	(86.87)
22 44	3.716	(94.39)	3.757	(95.43)	3.712	(94.28)	3.576	(90.83)
23 46	3.872	(98.35)	3.913	(99.39)	3.868	(98.25)	3.732	(94.79)
24 48	4.028	(102.31)	4.069	(103.35)	4.024	(102.21)	3.888	(98.76)
25 50	4.184	(106.27)	4.225	(107.32)	4.180	(106.17)	4.044	(102.72)
26 52	4.340	(110.24)	4.381	(111.28)	4.336	(110.13)	4.200	(106.68)
27 54	4.496	(114.20)	4.537	(115.24)	4.492	(114.10)	4.356	(110.64)
28 56	4.652	(118.16)	4.693	(119.20)	4.648	(118.06)	4.512	(114.60)
29 58	4.808	(122.12)	4.849	(123.16)	4.804	(122.02)	4.668	(118.57)
30 60	4.964	(126.09)	5.005	(127.13)	4.960	(125.98)	4.824	(122.53)
31 62	5.120	(130.05)	5.161	(131.09)	5.116	(129.95)	4.980	(126.49)
32 64	5.276	(134.01)	5.317	(135.05)	5.272	(133.91)	5.136	(130.45)
33 66	5.432	(137.97)	5.473	(139.01)	5.428	(137.87)	5.292	(134.42)
34 68	5.588	(141.94)	5.629	(142.98)	5.584	(141.83)	5.448	(138.38)
35 70	5.744	(145.90)	5.785	(146.94)	5.740	(145.80)	5.604	(142.34)
36 72	5.900	(149.86)	5.941	(150.90)	5.896	(149.76)	5.760	(146.30)
37 74	6.056	(153.82)	6.097	(154.86)	6.052	(153.72)	5.916	(150.27)
38 76	6.212	(157.78)	6.253	(158.83)	6.208	(157.68)	6.072	(154.23)
39 78	6.368	(161.75)	6.409	(162.79)	6.364	(161.65)	6.228	(158.19)
40 80	6.524	(165.71)	6.565	(166.75)	6.520	(165.61)	6.384	(162.15)
41 82	6.680	(169.67)	6.721	(170.71)	6.676	(169.57)	6.540	(166.12)
42 84	6.836	(173.63)	6.877	(174.68)	6.832	(173.53)	6.696	(170.08)
43 86	6.992	(177.60)	7.033	(178.64)	6.988	(177.50)	6.852	(174.04)
44 88					7.174	(182.22)		



MOUNTING OPTIONS - CARD EDGE CONNECTORS

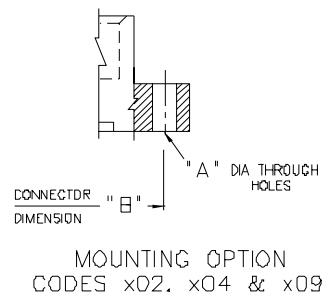
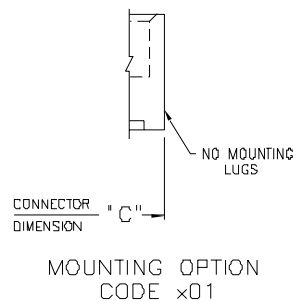
Standard Mounting Details

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

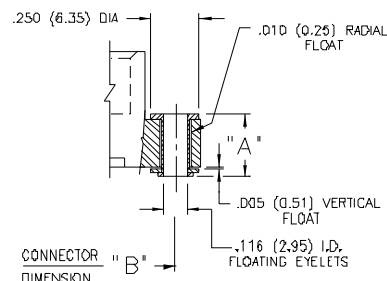
CODE x02, x04 & x09 - THROUGH MOUNTING HOLES

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

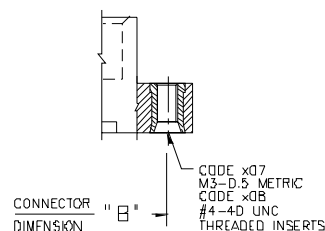
CODE x07 & x08 - THREADED INSERTS

- 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

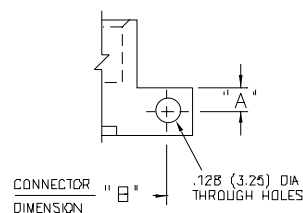
CODE x12 - SIDE MOUNTING HOLES

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.



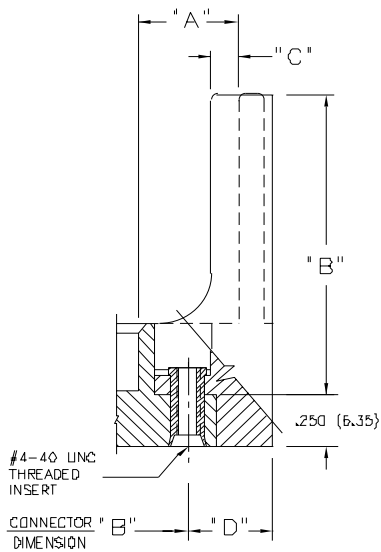
MOUNTING OPTION
CODES x07 & x08



MOUNTING OPTION
CODE x12

CARD EDGE CONNECTORS - MOUNTING OPTIONS

Standard Mounting Details

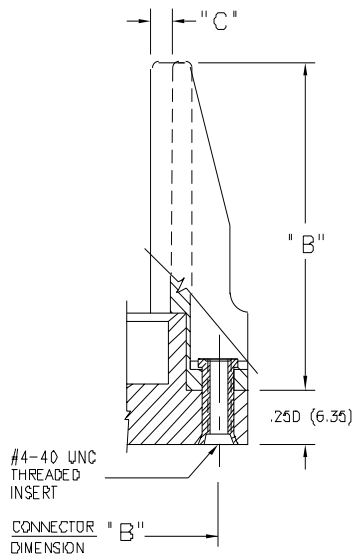


MOUNTING OPTION
CODES x58 & x68

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.