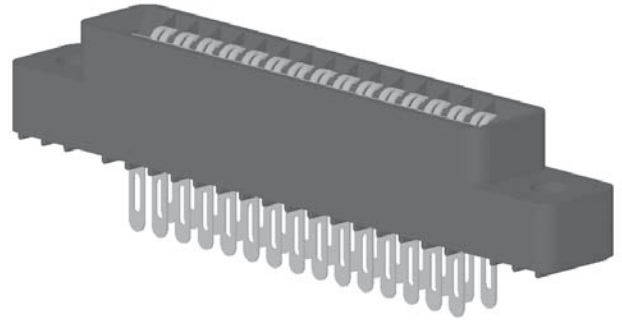




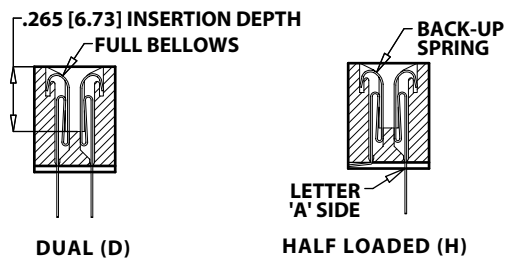
**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

## SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PBT, PPS, PA9T or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

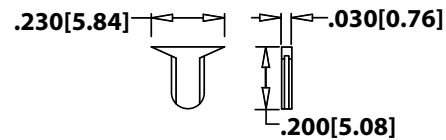


## READOUT



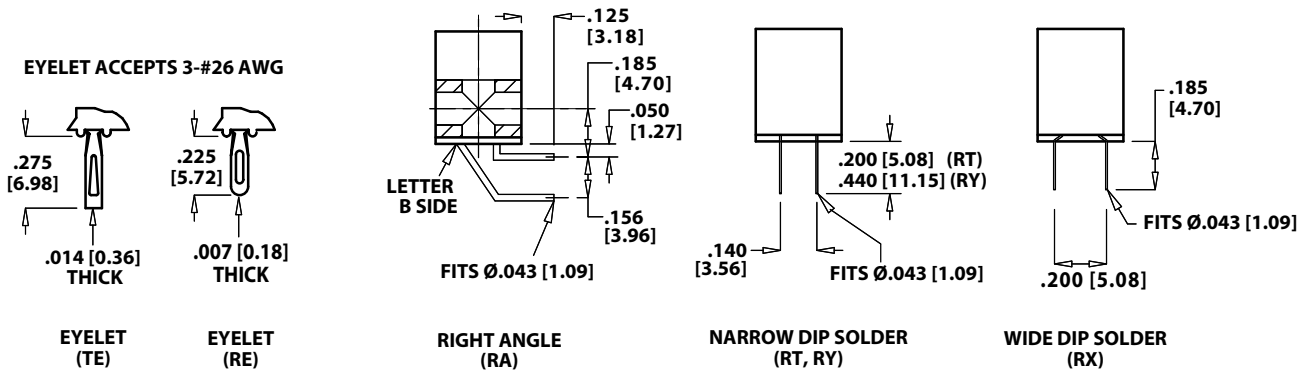
## POLARIZING KEYS (For .062" Mating PCB Only)

**PLA-K1**  
**KEY IN BETWEEN CONTACTS**  
**(ORDER SEPARATELY)**

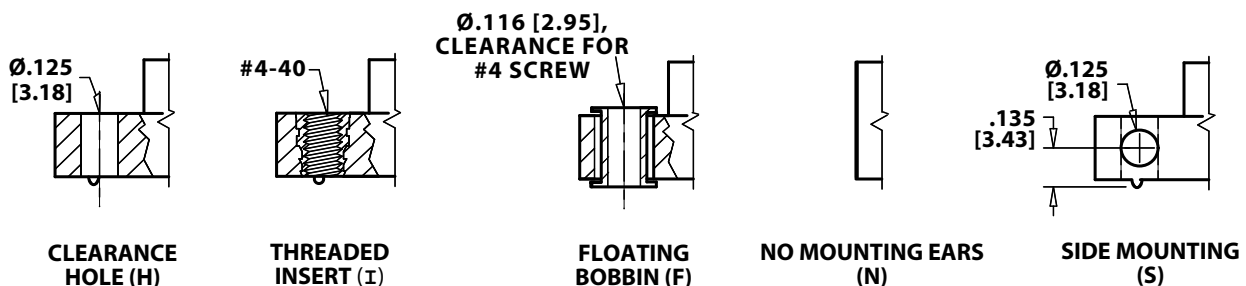


**CONSULT FACTORY FOR MOLDED-IN KEY**

## TERMINATION TYPE



## MOUNTING STYLE





**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- \*F = PPS/Spinodal (Overall Gold Plating Only)
- Consult Factory for Special Soldering Guidelines
- \*C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- \*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- \*Consult Factory for availability.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

**CONTACT CENTERS**

C = .100" [2.54mm]

E B C 43 D RE H - Sxxx

**MODIFICATIONS (Consult Factory)**

OMIT FOR STANDARD

-S13 = Card Extender Accepts .062" [1.57] PCB  
(RE, RT, RY Terminations Only)

-S734 = .031" ± .008" [1.79 ± .20] Thick Mating PCB

**MOUNTING STYLE (Opposite Page)**

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

**TERMINATION TYPE (Opposite Page)**

- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder
- RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder
- RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder

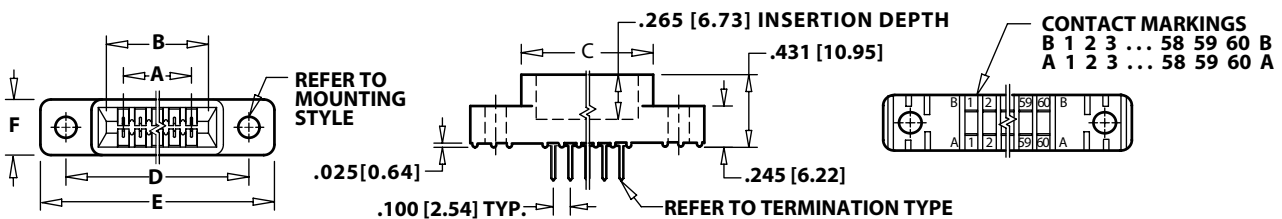
**READOUT (Opposite Page)**

- D = Dual
- H = Half Loaded

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275	0.330	7.62	12.70	17.15	24.77	32.39	8.38
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975	0.400	76.20	81.28	85.73	93.35	100.97	10.16
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

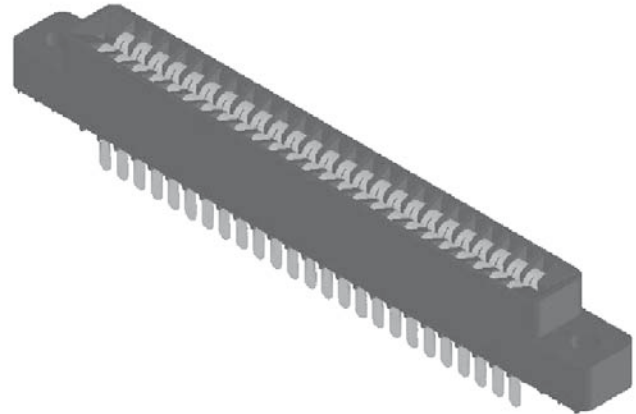
\* Consult Factory For Availability

## Sullins Edgecards

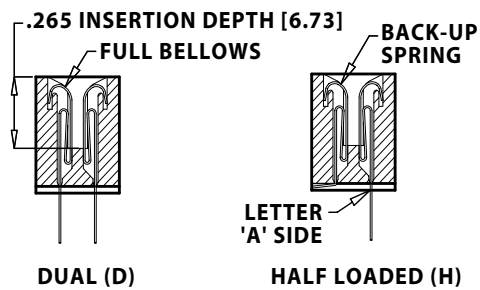
**.100" [2.54mm] Contact Centers, .431" Insulator Height  
Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

### SPECIFICATIONS

- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] PC board
- PBT, PPS, PA9T, or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



### READOUT

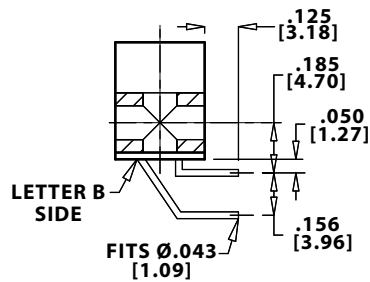


### TERMINATION TYPE

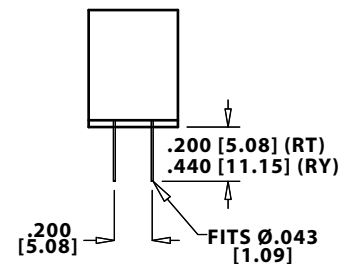
EYELET ACCEPTS 3-#26 AWG



**EYELET  
(RE)**

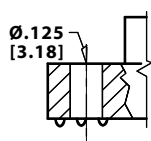


**RIGHT ANGLE  
(RA)**

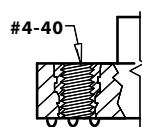


**NARROW DIP SOLDER  
(RT,RY)**

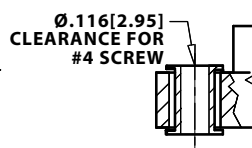
### MOUNTING STYLE



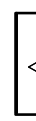
**CLEARANCE  
HOLE (H)**



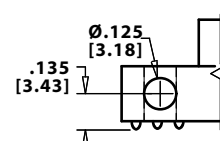
**THREADED  
INSERT (I)**



**FLOATING  
BOBBIN (F)**



**NO MOUNTING  
EARS (N)**



**SIDE MOUNTING  
(S)**



**.100" [2.54mm] Contact Centers, .431" Insulator Height  
Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
\*F = PPS/Spinodal (Overall Gold Plating Only)  
Consult Factory for Special Soldering Guidelines  
\*C = PPS/Beryllium Nickel (Overall Gold Plating Only)  
\*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)  
\*Consult Factory for availability.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

**MODIFICATION (CONSULT FACTORY)**  
-S93 = .093" ± .008" [2.36 ± .20] Thick PCB

**MOUNTING STYLE (Opposite Page)**

H = .125" [3.18mm] Clearance Holes  
N = No Mounting  
S = Side Mounting  
I = Threaded Insert  
F = Floating Bobbin

**TERMINATION TYPE (Opposite Page)**

RA = Right Angle  
RE = Eyelet  
RT = .200" [5.08mm] x .200" [5.08mm] Dip Solder  
RY = .200" [5.08mm] x .440" [11.18mm] Dip Solder

**READOUT (Opposite Page)**

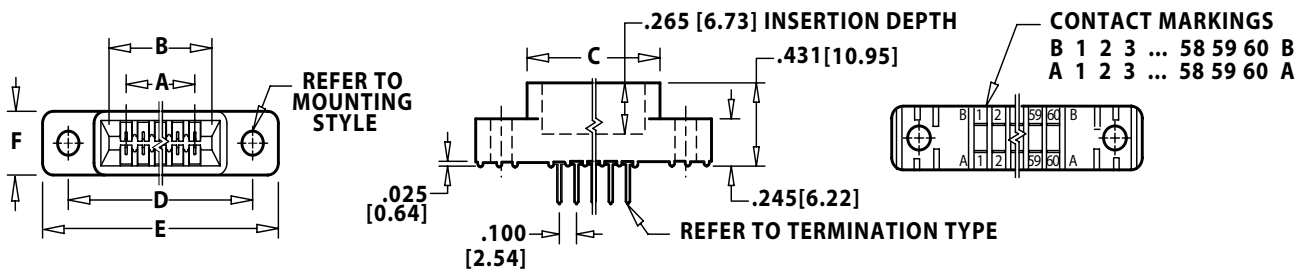
D = Dual  
H = Half Loaded

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**CONTACT CENTERS**  
C = .100" [2.54mm]

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275	0.330	7.62	12.70	17.15	24.77	32.39	8.38
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975	0.400	76.20	81.28	85.73	93.35	100.97	10.16
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/125	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

\* Consult Factory For Availability

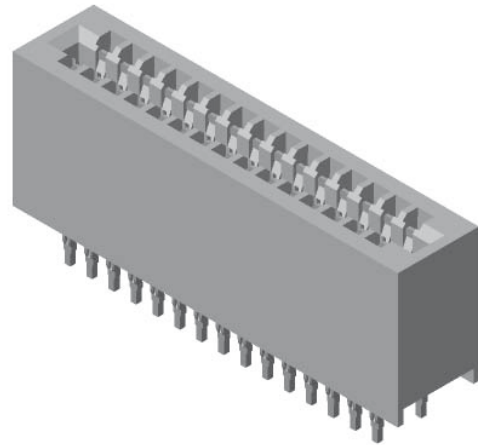




## .100" [2.54mm] Contact Centers, .550" or .610" Profile Press Fit

### SPECIFICATIONS

- Designed to meet specifications of Bellcore specification TR-TSY-00078.
- Flat rock installation eliminates the need for any special installation tool.
- Integrally molded scoops available to assist daughter card entry.
- Various plating options available per customer requirements.
- Various insulator options per customer requirements, including:
  - Open ended on one side
  - Open ended on both sides to accommodate end to end mounting
  - Molded in keys per customer requirements.



### FEATURES

#### COMPLIANT SECTION INSERTION FORCE

40 lbs maximum per contact

#### COMPLIANT SECTION WITHDRAWAL FORCE

10 lbs minimum per contact

#### HOLE SIZE REQUIREMENTS

Drilled Hole Diameter:  $.0453" \pm .0010"$  [1.15  $\pm$  .03]

Plating:  $.001"$  [.03] to  $.003"$  [.08] Copper and  $.0003"$  [.01] Minimum Tin

#### FINISHED HOLE DIAMETER

$.040" \pm .003"$  [1.02  $\pm$  .08]

#### SUITABLE FOR .062" [1.57] DAUGHTER CARD

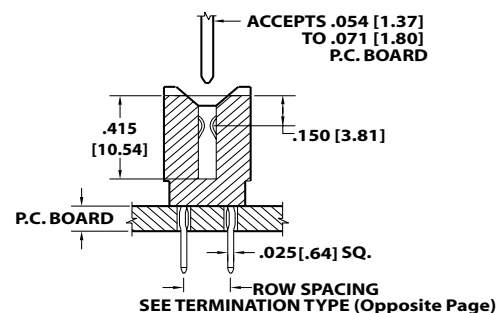
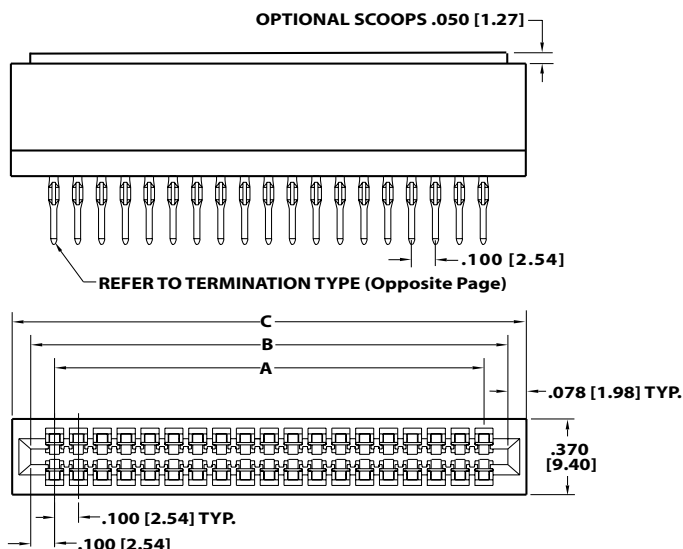
#### RECOMMENDED MOTHERBOARD THICKNESS

$.093"$  to  $.125"$  [2.36 to 3.18]

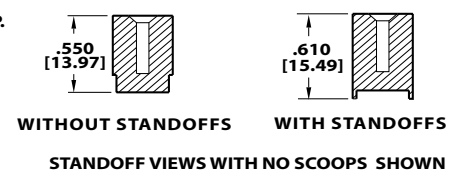
#### UL-CUL RECOGNIZED

### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



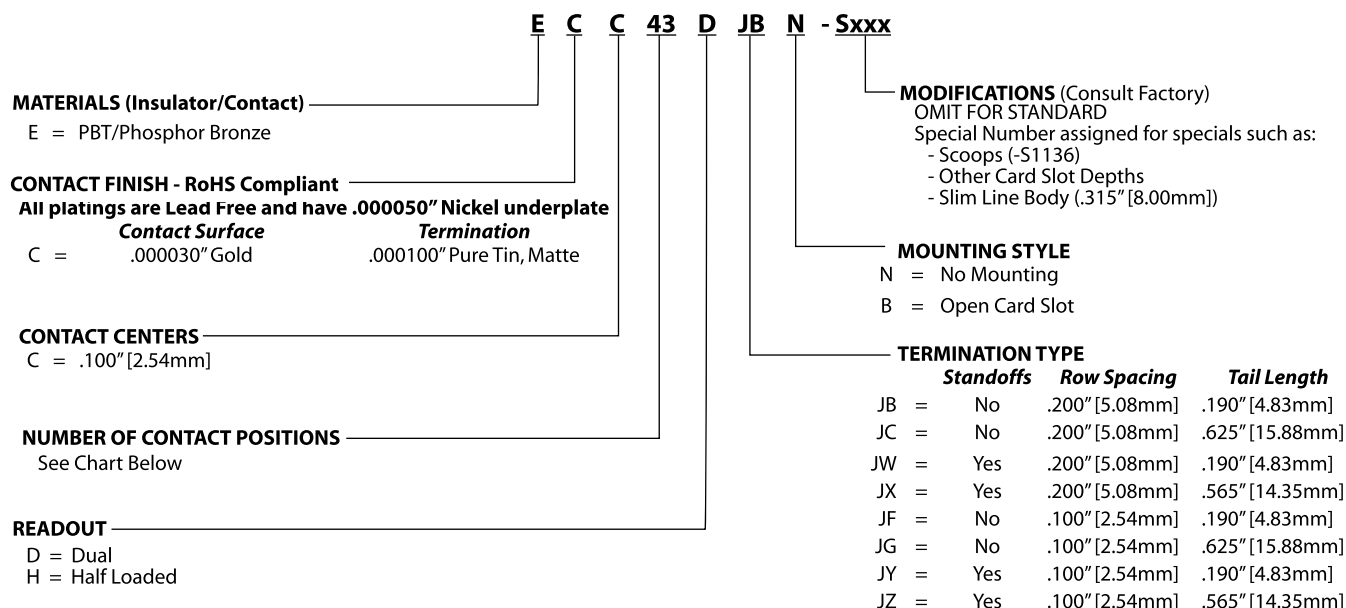
-S1136 (WITH SCOOPS) SHOWN ABOVE





**.100" [2.54mm] Contact Centers, .550" or .610" Profile  
Press Fit**

**PART NUMBER CODING**



POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
05/10	0.400	10.16	0.600	15.24	0.756	19.20
06/12	0.500	12.70	0.700	17.78	0.856	21.74
07/14	0.600	15.24	0.800	20.32	0.956	24.28
08/16	0.700	17.78	0.900	22.86	1.056	26.82
09/18	0.800	20.32	1.000	25.40	1.156	29.36
10/20	0.900	22.86	1.100	27.94	1.256	31.90
11/22	1.000	25.40	1.200	30.48	1.356	34.44
12/24	1.100	27.94	1.300	33.02	1.456	36.98
13/26	1.200	30.48	1.400	35.56	1.556	39.52
14/28	1.300	33.02	1.500	38.10	1.656	42.06
15/30	1.400	35.56	1.600	40.64	1.756	44.60
16/32	1.500	38.10	1.700	43.18	1.856	47.14
17/34	1.600	40.64	1.800	45.72	1.956	49.68
18/36	1.700	43.18	1.900	48.26	2.056	52.22
19/38	1.800	45.72	2.000	50.80	2.156	54.76
20/40	1.900	48.26	2.100	53.34	2.256	57.30
21/42	2.000	50.80	2.200	55.88	2.356	59.84
22/44	2.100	53.34	2.300	58.42	2.456	62.38
23/46	2.200	55.88	2.400	60.96	2.556	64.92
24/48	2.300	58.42	2.500	63.50	2.656	67.46
25/50	2.400	60.96	2.600	66.04	2.756	70.00
26/52	2.500	63.50	2.700	68.58	2.856	72.54
27/54	2.600	66.04	2.800	71.12	2.956	75.08
28/56	2.700	68.58	2.900	73.66	3.056	77.62
29/58	2.800	71.12	3.000	76.20	3.156	80.16
30/60	2.900	73.66	3.100	78.74	3.256	82.70
31/62	3.000	76.20	3.200	81.28	3.356	85.24
32/64	3.100	78.74	3.300	83.82	3.456	87.78

POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
33/66	3.200	81.28	3.400	86.36	3.556	90.32
34/68	3.300	83.82	3.500	88.90	3.656	92.86
35/70	3.400	86.36	3.600	91.44	3.756	95.40
36/72	3.500	88.90	3.700	93.98	3.856	97.94
37/74	3.600	91.44	3.800	96.52	3.956	100.48
38/76	3.700	93.98	3.900	99.06	4.056	103.02
39/78	3.800	96.52	4.000	101.60	4.156	105.56
40/80	3.900	99.06	4.100	104.14	4.256	108.10
41/82	4.000	101.60	4.200	106.68	4.356	110.64
42/84	4.100	104.14	4.300	109.22	4.456	113.18
43/86	4.200	106.68	4.400	111.76	4.556	115.72
44/88	4.300	109.22	4.500	114.30	4.656	118.26
45/90	4.400	111.76	4.600	116.84	4.756	120.80
46/92	4.500	114.30	4.700	119.38	4.856	123.34
47/94	4.600	116.84	4.800	121.92	4.956	125.88
48/96	4.700	119.38	4.900	124.46	5.056	128.42
49/98	4.800	121.92	5.000	127.00	5.156	130.96
50/100	4.900	124.46	5.100	129.54	5.256	133.50
51/102	5.000	127.00	5.200	132.08	5.356	136.04
52/104	5.100	129.54	5.300	134.62	5.456	138.58
53/106	5.200	132.08	5.400	137.16	5.556	141.12
54/108	5.300	134.62	5.500	139.70	5.656	143.66
55/110	5.400	137.16	5.600	142.24	5.756	146.20
56/112	5.500	139.70	5.700	144.78	5.856	148.74
57/114	5.600	142.24	5.800	147.32	5.956	151.28
58/116	5.700	144.78	5.900	149.86	6.056	153.82
59/118	5.800	147.32	6.000	152.40	6.156	156.36
60/120	5.900	149.86	6.100	154.94	6.256	158.90

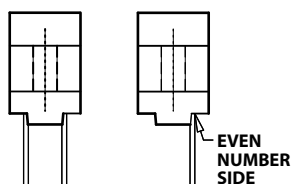
**.100" [2.54mm] Contact Centers, .610" Insulator Height  
Dip Solder/Wire Wrap/Right Angle/Card Extender**

**SPECIFICATIONS**

- Accommodates .062" ± .008" [1.57 ± .20] PC board (For .093" ± .008" [2.36 ± .20] PCB see page 40-41, 42-43; for .125" ± .008" [3.18 ± .20] PCB see page 40-41)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



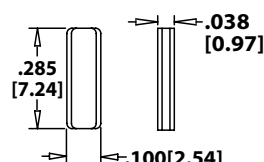
**READOUT**



DUAL (D) HALF LOADED (H)

**POLARIZING KEY**

**PLC-K1**

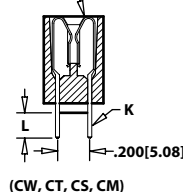


**KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)**

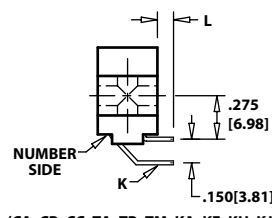
**TERMINATION TYPE**

HAIRPIN BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CW	DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CT	DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CS	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
CA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

**HAIRPIN BELLOWS**

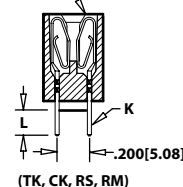


**RIGHT ANGLE**

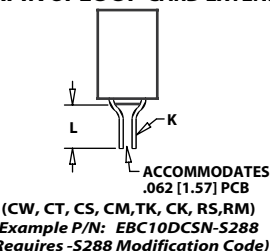


LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
TK,CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

**LOOP BELLOWS**

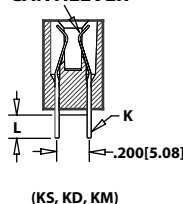


**HAIRPIN or LOOP CARD EXTENDER**

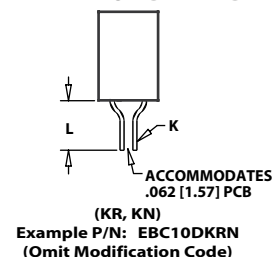


CANTILEVER	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
KS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
KD	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.043 [1.09]
KM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
*KA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
*KE	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
*KU	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
*KJ	RIGHT ANGLE	.025 [.64] SQUARE	.500 [12.70]	.043 [1.09]
*KR	CARD EXTENDER	.025 [.64] SQUARE	.235 [5.97]	N/A
*KN	CARD EXTENDER	.025 [.64] SQUARE	.605 [15.37]	N/A

**CANTILEVER**

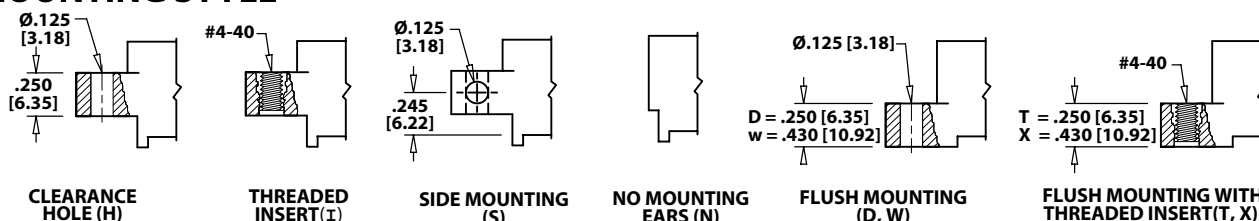


**CANTILEVER CARD EXTENDER**



\* KA, KE, KJ, KR, KN have no standoffs, unless requested.

**MOUNTING STYLE**





# **.100" [2.54mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle/Card Extender**

## **PART NUMBER CODING**

### **MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

### **CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

### **CONTACT CENTERS**

C = .100" [2.54mm]

### **NUMBER OF CONTACT POSITIONS**

See Chart Below

### **READOUT (Opposite Page)**

D = Dual  
H = Half Loaded

**E B C 70 D CM H - Sxxx**

### **MODIFICATION CODE (Consult Factory)**

OMIT FORT STANDARD

-S189 = .200" [5.08mm] Row to Row on Right Angle

-S288\* = Card Extender Accepts .062" [1.57] PCB

\* Not Required on KR or KN Terminations

### **MOUNTING STYLE (Opposite Page)**

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting  
D, W = Flush Mounting  
T, X = Flush Mounting With Threaded Inserts

### **TERMINATION TYPE (Opposite Page)**

**Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only**

CS = .025" [6.4mm] Square Dip Solder

CM = .025" [6.4mm] Square Wire Wrap

CA, CB, CC = .025" [6.4mm] Square Right Angle

CW, CT = .015" x .025" [.38 x .64] Dip Solder

### **Loop Bellows**

RS = .025" [6.4mm] Square Dip Solder

CK, TK = .026" [6.6mm] Round Dip Solder

RM = .025" [6.4mm] Square Wire Wrap

TA, TB, TM = .025" [6.4mm] Square Right Angle

### **Cantilever Bellows - Available in Y, B, or C plating Only**

Not Available with R or A Materials

KS, KD = .025" [6.4mm] Square Dip Solder

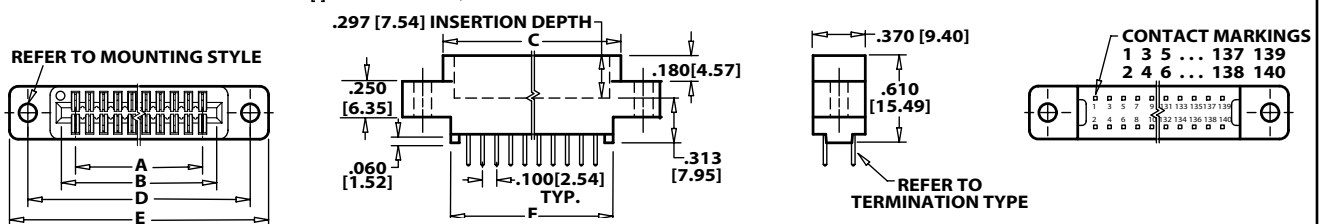
KM = .025" [6.4mm] Square Wire Wrap

KA, KE, KU, KJ = .025" [6.4mm] Square Right Angle

KR, KN = .025" [6.4mm] Square Card Extender

## **DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61
80/160*	7.900	8.100	8.260	8.575	8.835	8.150	200.66	205.74	209.80	217.81	224.41	207.01
90/180*	8.900	9.100	9.260	9.575	9.835	9.150	226.06	231.14	235.20	243.21	249.81	232.41
100/200*	9.900	10.100	10.260	10.575	10.835	10.150	251.46	256.54	260.60	268.61	275.21	257.81

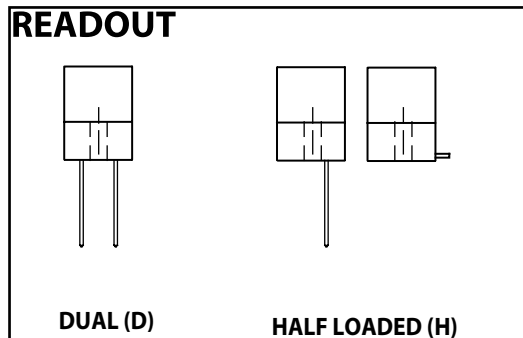
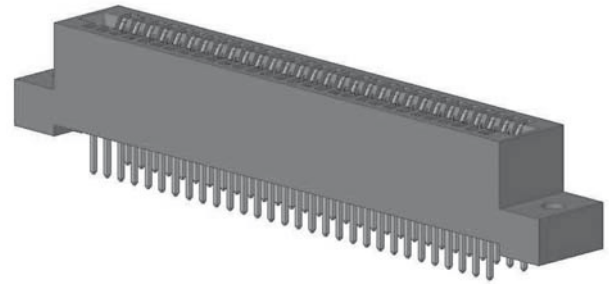
\* Consult factory for availability.

## Sullins Edgecards

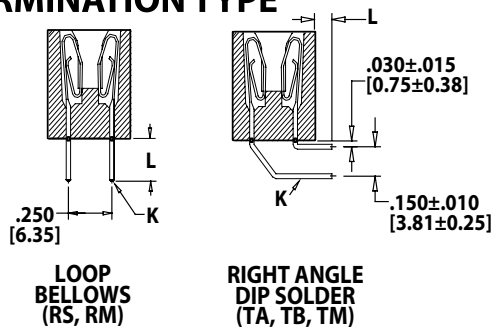
**.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/  
Right Angle/Card Extender for .093"[2.36] or .125"[3.18] Mating PCB**

### SPECIFICATIONS

- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] or .125"  $\pm$  .008" [3.18  $\pm$  .20] mating PC board (Consult factory for .031"  $\pm$  .008" [.79  $\pm$  .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

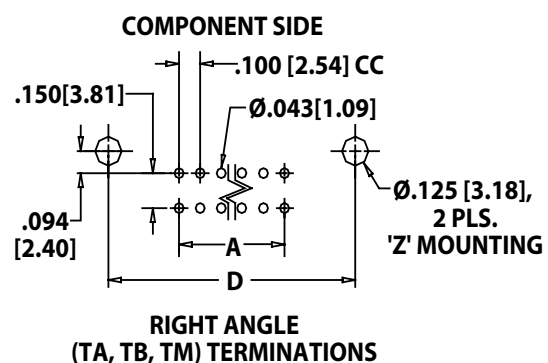
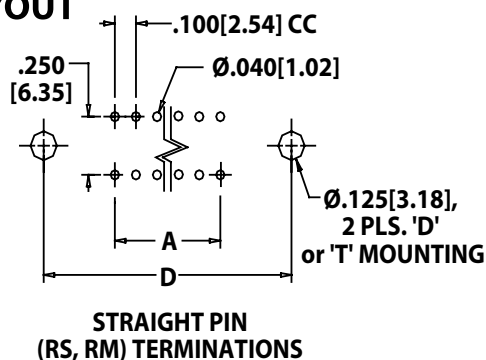


### TERMINATION TYPE

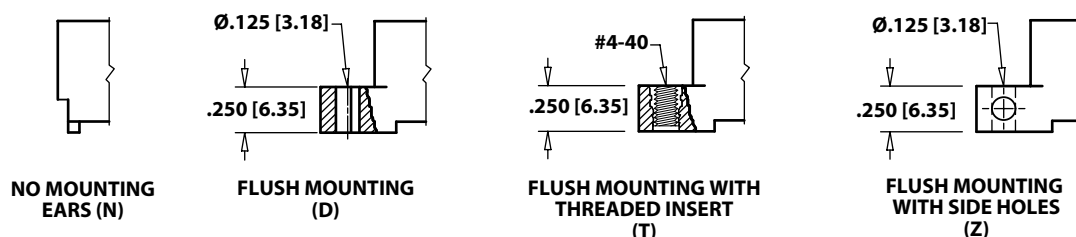


TERMINATION TYPE	POST CROSS SECTION (K)	POST LENGTH L $\pm$ .025[.64]	FITS MIN. HOLE SIZE
<b>RS</b> Dip Solder	.025[.64] SQUARE	.190 [4.83]	.040 [1.02]
<b>RM</b> Wire Wrap	.025[.64] SQUARE	.560 [14.20]	.040 [1.02]
<b>TA</b> Right Angle	.025[.64] SQUARE	.100 [2.54]	.043 [1.09]
<b>TB</b> Right Angle	.025[.64] SQUARE	.180 [4.57]	.043 [1.09]
<b>TM</b> Right Angle	.025[.64] SQUARE	.250 [6.35]	.043 [1.09]

### PCB LAYOUT



### MOUNTING STYLE







# **.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/ Right Angle/Card Extender for .093"[2.36] or .125"[3.18] Mating PCB**

## PART NUMBER CODING

### MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

### CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B	.000010" Gold	.000100" Pure Tin, Matte
C	.000030" Gold	.000100" Pure Tin, Matte
G	.000010" Gold	.000005" Gold
Y	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S	.000010" Gold	.000010" Gold
M	.000030" Gold	.000010" Gold
E	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

E B C 70 D RM D - S273

### MODIFICATION CODE (Consult Factory)

-S273 = FOR .093" ± .008" [2.36 ± .20]  
THICK MATING PCB  
-S664 = FOR .125" ± .008" [3.18 ± .20]  
THICK MATING PCB

### MOUNTING STYLE (Opposite Page)

N = No Mounting  
D = Flush Mounting  
T = Flush Mounting With Threaded Inserts  
Z = Flush Mounting With Side Holes

### TERMINATION TYPE (Opposite Page)

RS = .025" [0.64mm] Square Dip Solder  
RM = .025" [0.64mm] Square Wire Wrap  
TA, TB, TM = .025" [0.64mm] Square Right Angle

### READOUT (Opposite Page)

D = Dual  
H = Half Loaded

### NUMBER OF CONTACT POSITIONS

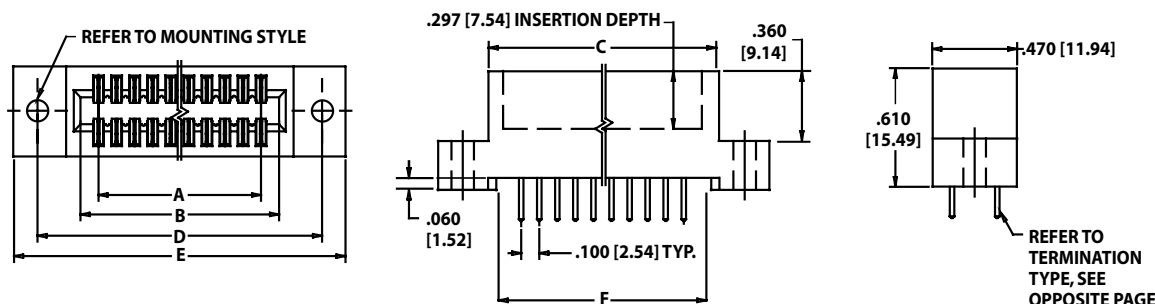
See Chart Below

### CONTACT CENTERS

C = .100" [2.54mm]

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16*	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
15/30*	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34*	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40*	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48*	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50*	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56*	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62*	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80*	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86*	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88*	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130*	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61

\* Consult factory for availability.

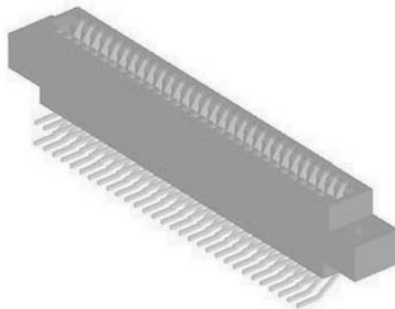




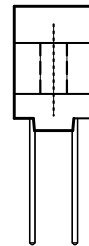
**.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender**

## SPECIFICATIONS

- Accommodates .062"  $\pm$  .008 [1.57  $\pm$  .20] or .093"  $\pm$  .008" [2.36  $\pm$  .20] PC board
- PPS, PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

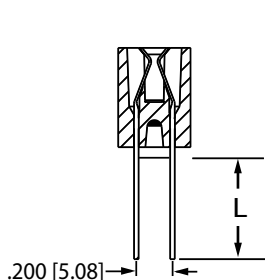


## READOUT

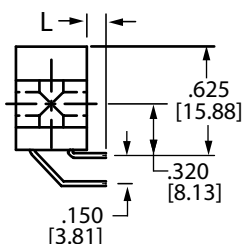


DUAL (D)

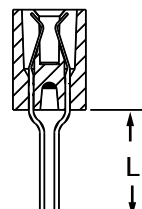
## TERMINATION TYPE



DIP SOLDER/WIRE WRAP  
(KS, KD, KM)



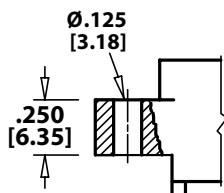
RIGHT ANGLE  
(KA, KE, KU, KJ)



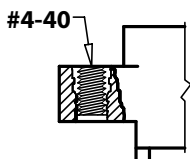
ACCOMMODATES  
.062 [1.57] PCB  
CARD EXTENDER  
(KR, KN)

TERMINATION	TERMINATION TYPE	POST LENGTH L $\pm$ .025 [.64]	FITS MIN. HOLE SIZE	STANDOFF
KD	DIP SOLDER	.160 [4.06]	.043 [1.09]	YES
KS	DIP SOLDER	.190 [4.83]	.040 [1.02]	YES
KM	WIRE WRAP	.560 [14.22]	.040 [1.02]	YES
KA	RIGHT ANGLE	.100 [2.54]	.043 [1.09]	NO
KE	RIGHT ANGLE	.180 [4.57]	.043 [1.09]	NO
KU	RIGHT ANGLE	.250 [6.35]	.043 [1.09]	NO
KJ	RIGHT ANGLE	.500 [12.70]	.043 [1.09]	NO
KR	CARD EXTENDER	.235 [5.97]	N/A	NO
KN	CARD EXTENDER	.605 [15.37]	N/A	NO

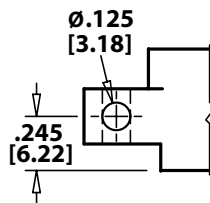
## MOUNTING STYLE



CLEARANCE  
HOLE (H)



THREADED  
INSERT (I)



SIDE MOUNTING  
(S)



NO MOUNTING  
EARS (N)



**.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender**

**PART NUMBER CODING**

**MATERIALS (Insulator /Contact)**

- E = PBT/Phosphor Bronze
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor Bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- (Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

**All platings are Lead Free and have .000050" Nickel underplate**

**Contact Surface Termination**

- B = .000010" Gold .000100" Pure Tin, Matte
- C = .000030" Gold .000100" Pure Tin, Matte
- Y = .000030" Gold .000005" Gold

**CONTACT CENTERS**

C = .100" [2.54mm]

**MODIFICATION CODE (Consult Factory)**

- S1243 = For .062" ± .008 [1.57" ± .20] PCB
- S1191 = For .093" ± .008 [2.36 ± .20] PCB

**MOUNTING STYLE (Opposite Page)**

- H = Clearance Holes
- I = Threaded Inserts
- S = Side Mounting
- N = No Mounting

**TERMINATION TYPE (Opposite Page)**

- KD, KS = .025" [.64] Square Dip Solder
- KM = .025" [.64] Square Wire Wrap
- KA, KE, KU, KJ = .025" [.64mm] Square Right Angle
- KN, KR = .025" [.64mm] Square Card Extender

**READOUT (Opposite Page)**

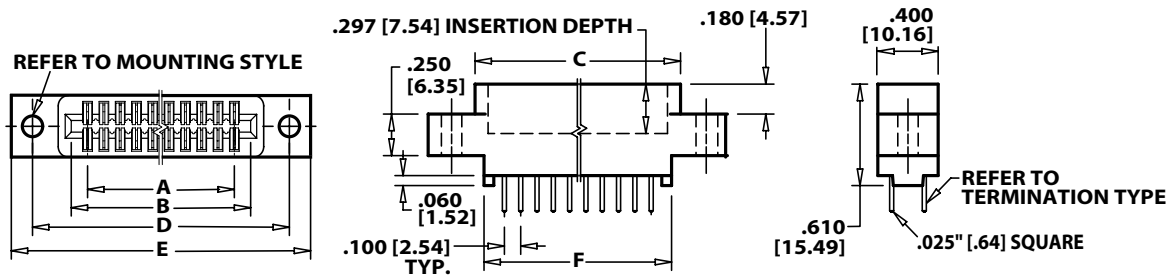
D = Dual

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.

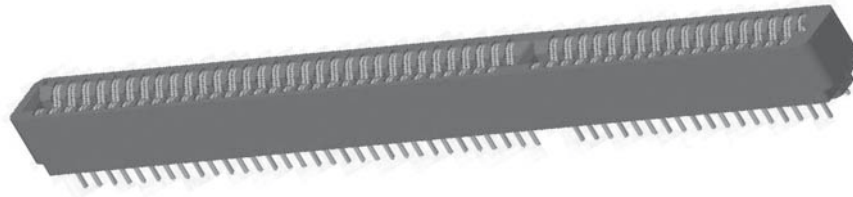


Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

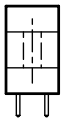
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.012	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.30	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.742	12.70	17.78	21.84	29.85	36.45	18.85
07/14	0.600	0.800	0.960	1.275	1.535	0.842	15.24	20.32	24.38	32.39	38.99	21.39
08/16	0.700	0.900	1.060	1.375	1.635	0.942	17.78	22.86	26.92	34.93	41.53	23.93
10/20	0.900	1.100	1.260	1.575	1.835	1.142	22.86	27.94	32.00	40.01	46.61	29.01
12/24	1.100	1.300	1.460	1.775	2.035	1.342	27.94	33.02	37.08	45.09	51.69	34.09
13/26	1.200	1.400	1.560	1.875	2.135	1.442	30.48	35.56	39.62	47.63	54.23	36.63
15/30	1.400	1.600	1.760	2.075	2.335	1.642	35.56	40.64	44.70	52.71	59.31	41.71
17/34	1.600	1.800	1.960	2.275	2.535	1.842	40.64	45.72	49.78	57.79	64.39	46.79
18/36	1.700	1.900	2.060	2.375	2.635	1.942	43.18	48.26	52.32	60.33	66.93	49.33
20/40	1.900	2.100	2.260	2.575	2.835	2.142	48.26	53.34	57.40	65.41	72.01	54.41
22/44	2.100	2.300	2.460	2.775	3.035	2.342	53.34	58.42	62.48	70.49	77.09	59.49
24/48	2.300	2.500	2.660	2.975	3.235	2.542	58.42	63.50	67.56	75.57	82.17	64.57
25/50	2.400	2.600	2.760	3.075	3.335	2.642	60.96	66.04	70.10	78.11	84.71	67.11
28/56	2.700	2.900	3.060	3.375	3.635	2.942	68.58	73.66	77.72	85.73	92.33	74.73
30/60	2.900	3.100	3.260	3.575	3.835	3.142	73.66	78.74	82.80	90.81	97.41	79.81
31/62	3.000	3.200	3.360	3.675	3.935	3.242	76.20	81.28	85.34	93.35	99.95	82.35
35/70	3.400	3.600	3.760	4.075	4.335	3.642	86.36	91.44	95.50	103.51	110.11	92.51
36/72	3.500	3.700	3.860	4.175	4.435	3.742	88.90	93.98	98.04	106.05	112.65	95.05
40/80	3.900	4.100	4.260	4.575	4.835	4.142	99.06	104.14	108.20	116.21	122.81	105.21
43/86	4.200	4.400	4.560	4.875	5.135	4.442	106.68	111.76	115.82	123.83	130.43	112.83
44/88	4.300	4.500	4.660	4.975	5.235	4.542	109.22	114.30	118.36	126.37	132.97	115.37
49/98	4.800	5.000	5.160	5.475	5.735	5.042	121.92	127.00	131.06	139.07	145.67	128.07
50/100	4.900	5.100	5.260	5.575	5.835	5.142	124.46	129.54	133.60	141.61	148.21	130.61
55/110	5.400	5.600	5.760	6.075	6.335	5.642	137.16	142.24	146.30	154.31	160.91	143.31
60/120	5.900	6.100	6.260	6.575	6.835	6.142	149.86	154.94	159.00	167.01	173.61	156.01
61/122	6.000	6.200	6.360	6.675	6.935	6.242	152.40	157.48	161.54	169.55	176.15	158.55
65/130	6.400	6.600	6.760	7.075	7.335	6.642	162.56	167.64	171.70	179.71	186.31	168.71
70/140	6.900	7.100	7.260	7.575	7.835	7.142	175.26	180.34	184.40	192.41	199.01	181.41

## Sullins Edgecards

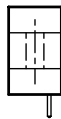
**.100" [2.54mm] Contact Centers, .610" Insulator Height,  
[ISA] Dip Solder/Wire Wrap/Right Angle**



### READOUT



DUAL (D)



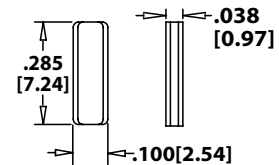
HALF LOADED (H)

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$   
[1.57  $\pm$  .20] PC board
- PBT or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

### POLARIZING KEY

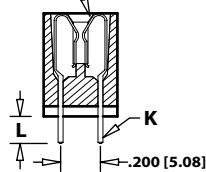
#### PLC-K1



**KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)**

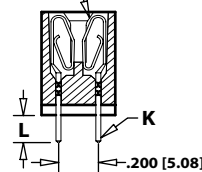
### TERMINATION TYPE

#### HAIRPIN BELLOWS

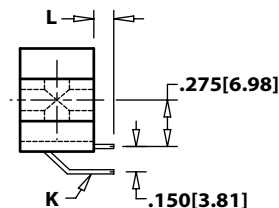


HAIRPIN BELLOWS  
(CS,CM,CW,CT)

#### LOOP BELLOWS



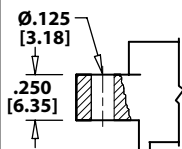
LOOP BELLOWS  
(TK,RS,RM)



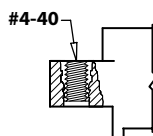
RIGHT ANGLE, DIP SOLDER  
(CA,CB,CC,TA,TB,TM)  
-S605 MODIFICATION

HAIRPIN BELLOWS	LOOP	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CM	TK, CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
	RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
	RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
	TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
CW		DIP SOLDER	.015 X .025 [.38 X .64]	.125 [3.18]	.035 [0.76]
CT		DIP SOLDER	.015 X .025 [.38 X .64]	.170 [4.32]	.035 [0.76]
CS		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]

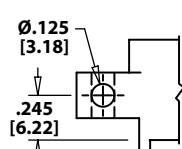
### MOUNTING STYLE



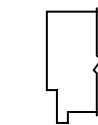
CLEARANCE HOLE (H)



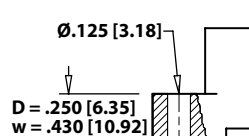
THREADED INSERT (I)



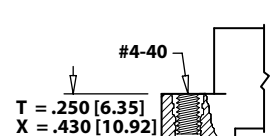
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH THREADED INSERT (T, X)



### .100" [2.54mm] Contact Centers, .610" Insulator Height, [ISA] Dip Solder/Wire Wrap/Right Angle

#### PART NUMBER CODING

##### MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

##### CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

##### Contact Surface

B = .000010" Gold  
C = .000030" Gold  
G = .000010" Gold  
Y = .000030" Gold  
S = .000010" Gold  
M = .000030" Gold  
E = .000100" Pure Tin, Matte

##### Termination

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte

##### Overall Plating

.000005" Gold  
.000005" Gold  
.000010" Gold  
.000010" Gold  
.000100" Pure Tin, Matte

##### CONTACT CENTERS

C = .100" [2.54mm]

##### NUMBER OF CONTACT POSITIONS

18, 31 or 49 (18/31)

##### READOUT (Opposite page)

D = Dual  
H = Half Loaded

E B C 49 D CW N - S420

##### MODIFICATION CODE (Consult Factory)

##### ISA WITH RETENTION FEATURE

-S524 = 18 Positions  
-S524 = 31 Positions  
-S518 = 49 Positions (31/18)

##### ISA WITHOUT RETENTION FEATURE

-S371 = 18 Positions  
-S371 = 31 Positions  
-S420 = 49 Positions (31/18) Dip Solder or Wire Wrap  
-S605 = 49 Positions (31/18) Right Angle

##### MOUNTING STYLE (Opposite Page)

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting  
D, W = Flush Mounting  
T, X = Flush Mounting With Threaded Inserts

##### TERMINATION TYPE (Opposite Page)

##### Hairpin Bellows \*

CS = .025" [0.64mm] Square Dip Solder  
CM = .025" [0.64mm] Square Wire Wrap  
CA, CB, CC = .025" [0.64mm] Square Right Angle  
CW, CT = .015" [0.38mm] x .025" [0.64mm] Dip Solder

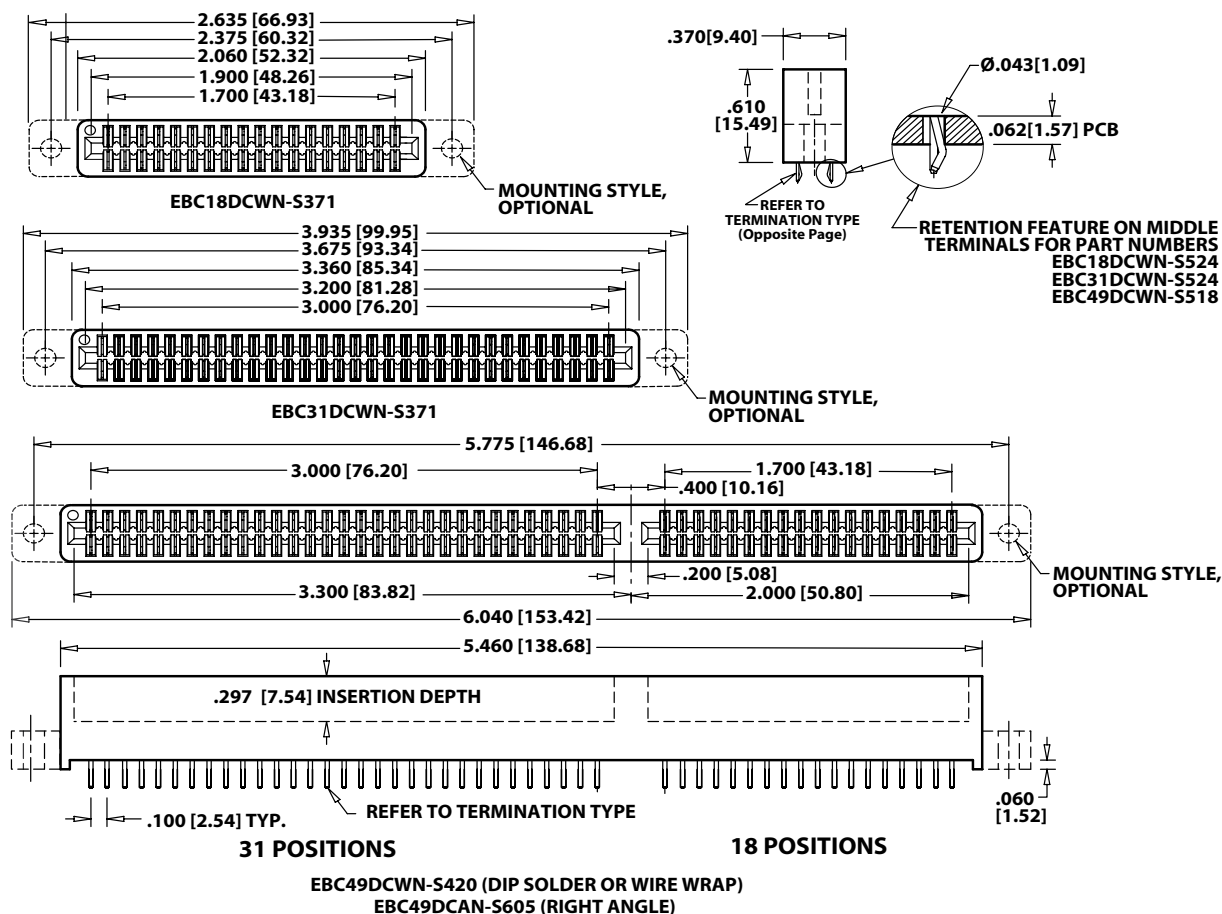
##### Loop Bellows

RS = .025" [0.64mm] Square Dip Solder  
TK = .026" [0.66mm] Round Dip Solder  
RM = .025" [0.64mm] Square Wire Wrap  
TA, TB, TM = .025" [0.64mm] Square Right Angle

\* Available in B or C Plating and Phosphor Bronze only

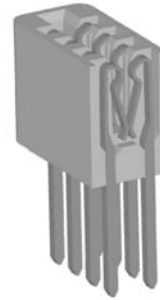
#### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



## SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

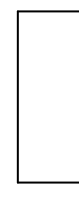


## READOUT



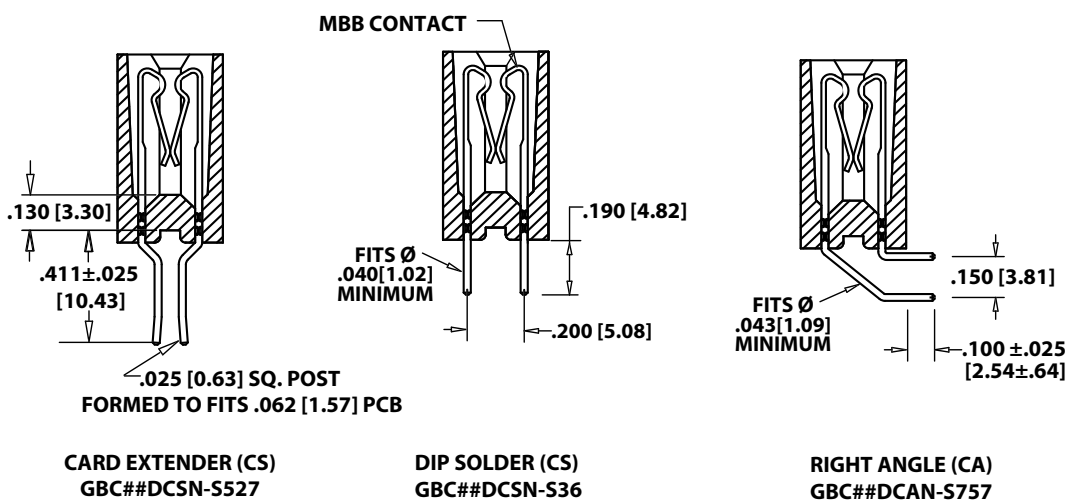
DUAL (D)

## MOUNTING STYLE



NO MOUNTING EARS (N)

## TERMINATION TYPE





# .100" [2.54mm] Contact Centers, .690" Insulator Height Make Before Break Dip Solder/Card Extender/Right Angle

## PART NUMBER CODING

**MATERIALS (INSULATOR/CONTACT)**  
G = PA9T/Phosphor Bronze  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**  
All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface Termination**  
B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**  
C = .100" [2.54mm]

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**MODIFICATION CODE** (Consult Factory)  
-S757 = MBB, .150" [3.81mm] Row to Row on Right Angle  
-S527 = MBB, Card Extender Accepts .062" [1.57] PCB  
-S36 = MBB, Straight Dip-Solder

**MOUNTING STYLE**  
N = No Mounting

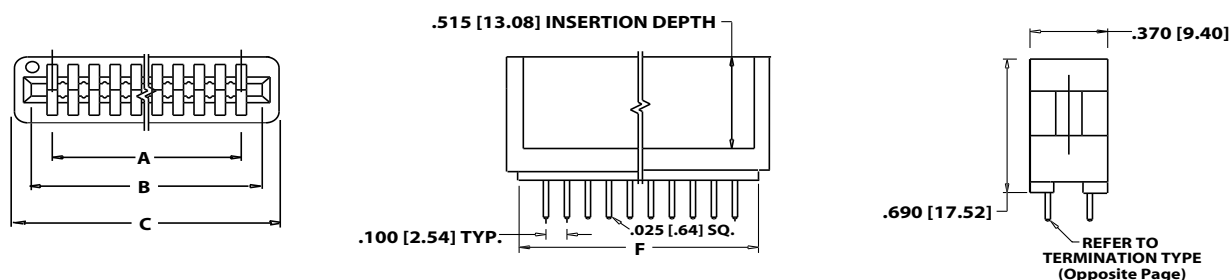
**TERMINATION TYPE (Opposite Page)**  
*Hairpin Bellows*  
CS = Dip Solder .025" [.64] Square  
CA = Right Angle, .100" [2.54]

**READOUT (Opposite Page)**  
D = Dual

**Part Number Example: G B C 10 D CS N - S36**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES				[MILLIMETERS]			
	A±.008	B±.008	C±.015	F±.015	A±0.20	B±0.20	C±0.38	F±0.38
02/04*	0.100	0.300	0.460	0.350	2.54	7.62	11.68	8.89
04/08*	0.300	0.500	0.660	0.550	7.62	12.70	16.76	13.97
06/12*	0.500	0.700	0.860	0.750	12.70	17.78	21.84	19.05
08/16*	0.700	0.900	1.060	0.950	17.78	22.86	26.92	24.13
10/20*	0.900	1.100	1.260	1.150	22.86	27.94	32.00	29.21
12/24	1.100	1.300	1.460	1.350	27.94	33.02	37.08	34.29
14/28	1.300	1.500	1.660	1.550	33.02	38.10	42.16	39.37
16/32*	1.500	1.700	1.860	1.750	38.10	43.18	47.24	44.45
18/36*	1.700	1.900	2.060	1.950	43.18	48.26	52.32	49.53
20/40*	1.900	2.100	2.260	2.150	48.26	53.34	57.40	54.61
22/44*	2.100	2.300	2.460	2.350	53.34	58.42	62.48	59.69
24/48*	2.300	2.500	2.660	2.550	58.42	63.50	67.56	64.77
26/52*	2.500	2.700	2.860	2.750	63.50	68.58	72.64	69.85
28/56*	2.700	2.900	3.060	2.950	68.58	73.66	77.72	74.93
30/60*	2.900	3.100	3.260	3.150	73.66	78.74	82.80	80.01
32/64*	3.100	3.300	3.460	3.350	78.74	83.82	87.88	85.09
34/68*	3.300	3.500	3.660	3.550	83.82	88.90	92.96	90.17
36/72*	3.500	3.700	3.860	3.750	88.90	93.98	98.04	95.25
38/76*	3.700	3.900	4.060	3.950	93.98	99.06	103.12	100.33
40/80*	3.900	4.100	4.260	4.150	99.06	104.14	108.20	105.41
42/84*	4.100	4.300	4.460	4.350	104.14	109.22	113.28	110.49
44/88*	4.300	4.500	4.660	4.550	109.22	114.30	118.36	115.57
46/92*	4.500	4.700	4.860	4.750	114.30	119.38	123.44	120.65
48/96*	4.700	4.900	5.060	4.950	119.38	124.46	128.52	125.73
50/100	4.900	5.100	5.260	5.150	124.46	129.54	133.60	130.81

\* Consult factory for availability.





## GENERAL SPECIFICATIONS

### RoHS COMPLIANT

RoHS  
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 5 of this catalog.

### MATERIALS

#### Insulator

- PBT, Valox\*, Thermoplastic Polyester
- PPS, Ryton\*, Polyphenylene Sulfide
- PEEK, Polyetheretherketone
- PA9T, High Temperature Polyamide
- Other materials available. Consult Factory

#### Contacts

Phosphor Bronze (Standard), Beryllium Copper, Beryllium Nickel, Spinodal\*\*, Brass

#### Plating

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

**UL/CUL File Number:** E64287

**Cage Code:** 54453

### MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

**Special Insertion/Withdrawal forces available upon request**

### ELECTRICAL

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers:	.039"[1mm]	.050"[1.27mm]	.100"[2.54mm]	.125"[3.18mm]	.150"[3.81mm]	.156"[3.96mm]
Voltage:	125 VDC	250 VDC	600 VDC	800 VDC	1500 VDC	1800 VDC
	225 VAC	300 VAC	750 VAC	750 VAC	900 VAC	950 VAC

Current Rating: 1 to 5 amp per contact

Voltage Drop: 30 milli volt at rated current

Contact Resistance: 30 milli ohm maximum at rated current

### ENVIRONMENTAL

Solvent resistance: Perchloroethylene, Freon 113, Freon 11, Trichloroethylene

Operating Temperature:	PBT	-65° to +130°C	Phosphor Bronze	-65° to +125°C
	PPS	-65° to +200/220°C***	Beryllium Copper	-65° to +150°C
	PEEK	-65° to +250°C***	Spinodal**	-65° to +200°C
	PA9T	-65° to +150°C	Beryllium Nickel***	-65° to +300°C
(Continuous temperatures, higher for short duration. Contact Factory for details.)				

\* Or equivalent.

\*\* Consult factory for special soldering guidelines.

\*\*\* Consult factory.



## PART NUMBER OPTIONS

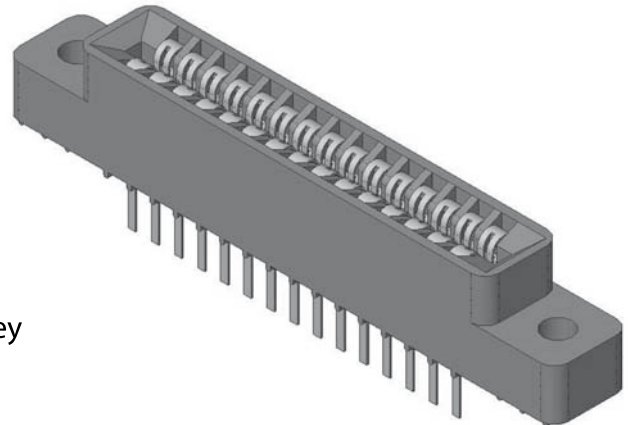
		E	B	M	43	D	RT	H	- Sxxx		
<b>MATERIALS (Insulator/Contact)</b>									<b>MODIFICATION CODE</b> (Consult Factory) OMIT FOR STANDARD		
E = PBT & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)									<b>MOUNTING STYLE</b>		
R = PPS & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.									H = Clearance Holes, .125" [3.18mm] Dia		
G = PA9T & PHOSPHOR BRONZE OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260° FOR 120 sec. MAX.									N = No Mounting		
H = PBT & Beryllium Copper OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)									S = Side Mounting, .125" [3.18mm] Dia		
A = PPS & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.									I = #4-40 Threaded Insert		
J = PA9T & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.									F = Floating Bobbin		
M = White PA9T/Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C									W = .430" Ears, Flush Mounting, .125" [3.18mm] Dia		
F = PPS & Spinodal (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C									D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia		
C = PPS & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.									P = Clearance Holes, .142" [3.61mm] Dia.		
W = PEEK & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +250°C									B = Open Card Slot		
N = Nylon 6T & Phosphor Bronze OPERATING TEMPERATURE: -10°C to +85°C PROCESSING TEMPERATURE: 260°C for 10 sec. MAX.									X = .430" Ears, Flush Mounting, #4-40 Threaded Insert		
									T = .250" Ears, Flush Mounting, #4-40 Threaded Insert		
									Q = Straddle Mount		
									Z = .250" Ears, Flush, Side Mounting		
<b>CONTACT FINISH - RoHS Compliant</b>									<b>TERMINATION TYPE</b>		
All platings are Lead Free and have .000050" Nickel underplate									<b>Card Extender</b>		
									HR = .050" & 1mm Contact Centers		
									KR,KN = .025" [.64mm] Square Post, Cantilever		
									<b>Dip Solder - High Profile</b>		
									RS = .025 [.64mm] Square Tail, Loop Bellows		
									CS, SC = .025" [.64mm] Square Tail, Hairpin Bellows		
									TK = .026" [.66mm] Round Tail, Loop Bellows		
									CT,CW = .015" x .025" Tail, Hairpin Bellows		
									CK = .026" [.66mm] Round Tail, Loop Bellows		
									HH = 1mm [.039"] Contact Centers		
									HH,HL,HN = .050" Contact Centers		
									KS,KD = .025" [.64mm] Square Post, Cantilever		
									<b>Dip Solder - Low Profile</b>		
									SX,SU = Crimp to Center for Single Readout		
									RT,RK,RY = .140" [3.56mm] Row Spacing		
									RX,RF,RU,RP = .200" [5.08mm] Row Spacing		
									RJ = .250" [6.35mm] Row Spacing		
									<b>Eyelet</b>		
									RE,TE,SE = Eyelet Tail		
									<b>Press Fit</b>		
									.200" [5.08mm] Row Spacing		
									.100" [2.54mm] Row Spacing		
									JB = .025" [.64mm] Sq. Post		
									JF = .025" [.64mm] Sq. Post		
									JC = .025" [.64mm] Sq. Post		
									JG = .025" [.64mm] Sq. Post		
									JW = .025" [.64mm] Sq. Post		
									JY = .025" [.64mm] Sq. Post		
									JX = .025" [.64mm] Sq. Post		
									JZ = .025" [.64mm] Sq. Post		
									<b>Right Angle</b>		
									RA,SA = Right Angle, Full Bellows		
									TA,TB,TM = Right Angle, Loop Bellows		
									CA,CB,CC = Right Angle, Hairpin Bellows		
									HA = Right Angle, .050" & 1mm Contact Centers		
									HB = Right Angle, .050" Contact Centers		
									KA,KE,KU,KJ = .025" [.64mm] Square Post, Cantilever		
									<b>Surface Mount</b>		
									HF = Surface Mount, .050" & 1mm Contact Centers		
									<b>Wire Wrap</b>		
									RM = .025" [.64mm] Square Post, Loop Bellows		
									CM,MC = .025" [.64mm] Square Post, Hairpin Bellows		
									KK = .031" [.79mm] x .062" [1.58mm] Post		
									KL = .031" [.79mm] x .062" [1.58mm] Post Twisted 90°		
									KM = .025" [.64mm] Square Post, Cantilever		
									WW = .045" [1.14mm] Square Post		
									<b>Bi-Level Terminations</b>		
									LR = Card Extender		
									LT = Dip Solder		
									KB = Right Angle		
									<b>Male Edgecards</b>		
									MW,MS = Dip Solder		
									MA,MV,MB = Right Angle		
									MD,MJ,MK = Right Angle		
									MR,MN = Card Extender		
									MM = Wire Wrap		
<b>CONTACT FINISH - RoHS Compliant</b>											
All platings are Lead Free and have .000050" Nickel underplate											



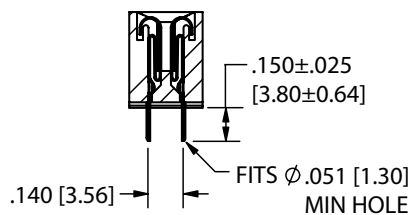
## .100" Contact Centers, .431" Insulator Height, Dip Solder

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200" (Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

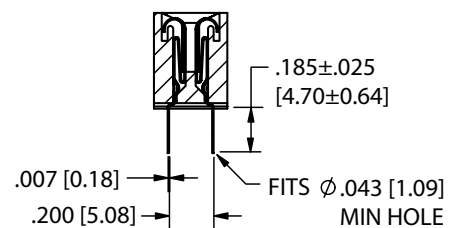


### TERMINATION TYPE



**DIP SOLDER (S)  
.140" ROW SPACING**

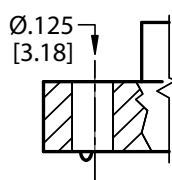
*Example P/N: MP~~S~~L-0100-10-D~~S~~-1K*



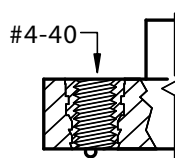
**DIP SOLDER (S)  
.200" ROW SPACING  
USE 'X9' MODIFICATION CODE**

*Example P/N: MP~~S~~L-0100-10-D~~S~~-1X9K*

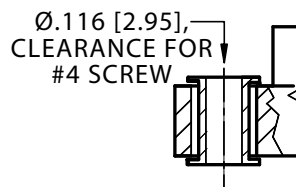
### MOUNTING STYLE



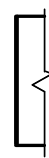
(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



## PART NUMBER CODING

<b>PLATING - RoHS Compliant</b> All Platings are Lead Free and have .000050" Nickel Underplate	<b>MODIFICATION CODE**</b> K = Required on MPSSL or MPL Plating Omit for MP Plating (Overall Gold) X9 = .200" Row Spacing
<b>CONTACT SURFACE</b> *MPSSL = .000010" Gold *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold	<b>TERMINATION</b> .000100" Pure Tin, Matte
<b>*Requires 'K' Modification Code</b>	
<b>INSULATOR MATERIAL**</b> 0 = PBT	
<b>CONTACT CENTERS</b> 100 = .100" [2.54mm]	
<b>NUMBER OF POSITIONS</b> Contacts Per Row (See Position Chart Below)	
	<b>READOUT</b> D = Dual
	<b>TERMINATION TYPE</b> (See Opposite Page) S = Dip Solder
	<b>MOUNTING STYLE</b> (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 3 = Floating Bobbin 4 = No Mounting

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

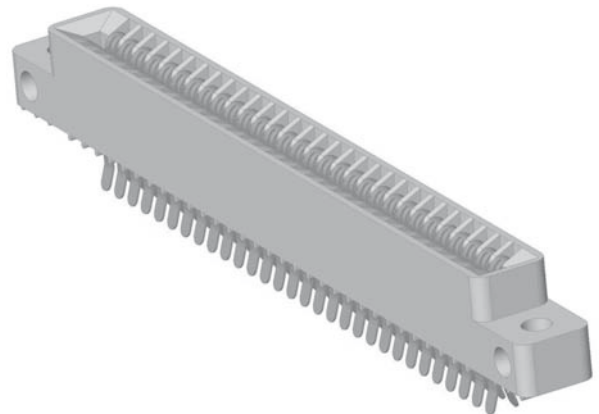
<b>DIMENSIONS</b> Dimensions in [ ] are in millimeters, all others are in inches.												
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



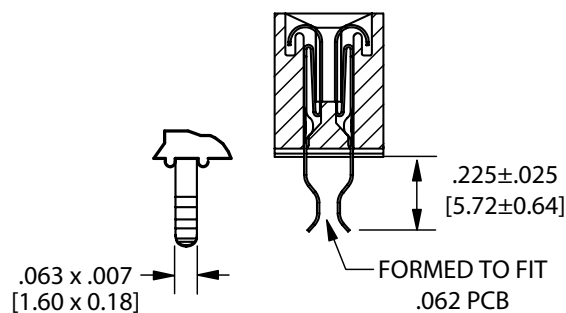
## .100" Contact Centers, .431" Insulator Height, Card Extender

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



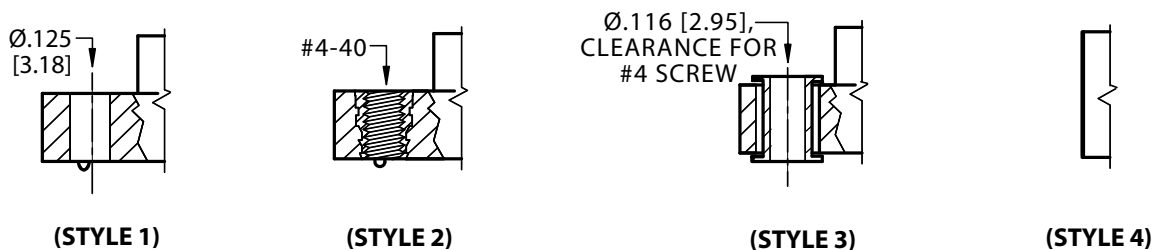
### TERMINATION TYPE



### CARD EXTENDER (SE)

**Example P/N: MP~~S~~L-0100-10-D~~S~~E-1K**

### MOUNTING STYLE





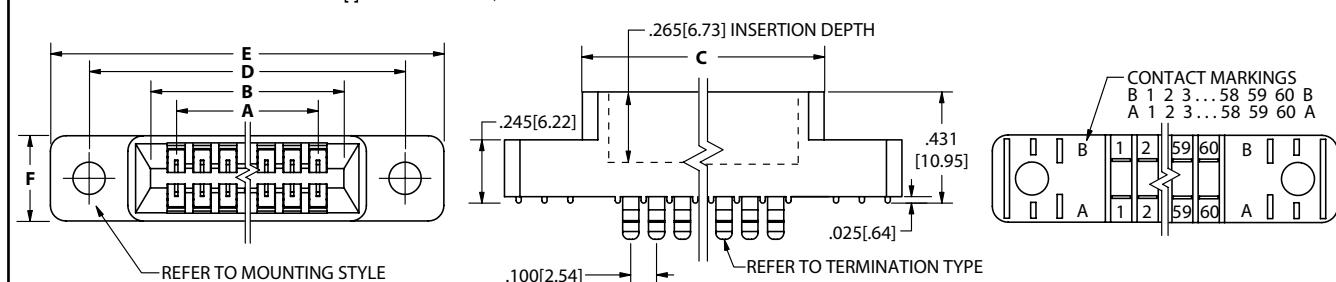
## PART NUMBER CODING

<b>PLATING - RoHS Compliant</b>		<b>PLATING MODIFICATION CODE**</b>	
All Platings are Lead Free and have .000050" Nickel Underplate		K = Required on Tin Plating Omit for MP Plating (Overall Gold)	
<b>Contact Surface</b>	<b>Termination</b>	<b>MOUNTING STYLE</b> (See Opposite Page)	
*MPSL = .000010" Gold	.000100" Pure Tin Matte	1 = .125" Clearance Hole	
*MPL = .000100" Overall Pure Tin, Matte		2 = #4-40 Threaded Insert	
MP = .000010" Overall Gold		3 = Floating Bobbin	
<b>* Requires 'K' Modification Code</b>		4 = No Mounting	
Other Plating and thicknesses available upon request		<b>TERMINATION TYPE</b> (See Opposite Page)	
<b>INSULATOR MATERIAL**</b>		SE = Card Extender	
0 = PBT		<b>READOUT</b>	
<b>CONTACT CENTERS</b>		D = Dual	
100 = .100" [2.54mm]			
<b>NUMBER OF POSITIONS</b>			
Contacts Per Row (See Position Chart Below)			

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	73.66	78.74	83.19	90.81	98.43		
31/62	3.000	3.200	3.375	3.675	3.975	76.20	81.28	85.73	93.35	100.97		
35/70	3.400	3.600	3.775	4.075	4.375	0.400	86.36	91.44	95.89	103.51	111.13	10.16
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375	162.56	167.64	172.09	179.71	187.33		

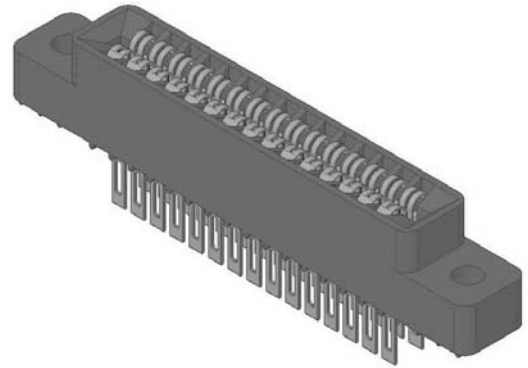




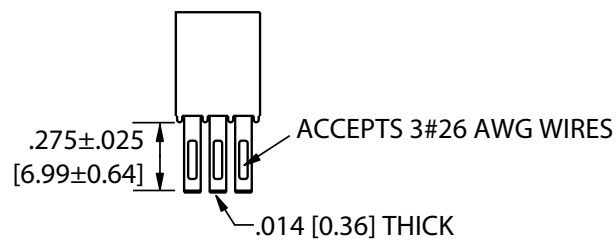
## .100" Contact Centers, .431" Insulator Height, Eyelet

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and
- Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



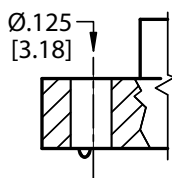
### TERMINATION TYPE



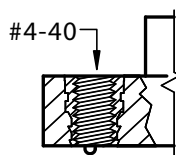
### EYELET (P)

**Example P/N: MP-0100-10-DP-1**

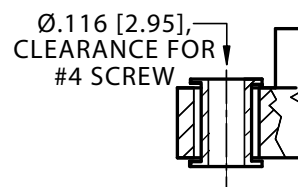
### MOUNTING STYLE



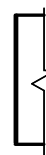
(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



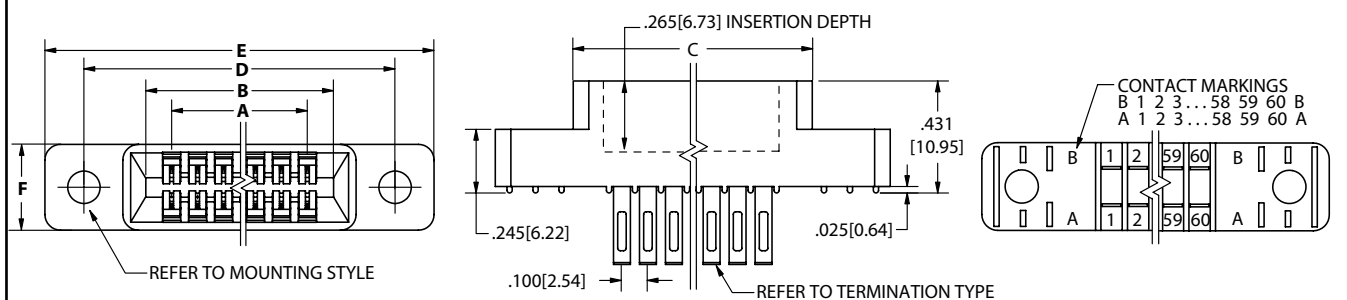
## PART NUMBER CODING

<b>MPL - 0</b>	<b>100 - 10</b>	<b>- D</b>	<b>P - 1</b>	<b>K</b>
<b>PLATING - RoHS Compliant</b> All Platings are Lead Free and have .000050" Nickel Underplate *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold * Requires 'K' Modification Code Other Plating and thicknesses available upon request				<b>PLATING MODIFICATION CODE**</b> K = Required on Tin Plating Omit for MP Plating (Overall Gold)
<b>INSULATOR MATERIAL**</b> 0 = PBT				<b>MOUNTING STYLE</b> (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 3 = Floating Bobbin 4 = No Mounting
<b>CONTACT CENTERS</b> 100 = .100"[2.54mm]				<b>TERMINATION TYPE</b> (See Opposite Page) P = Pierced Eyelet, .014" Thick
<b>NUMBER OF POSITIONS</b> Contacts Per Row (See Position Chart Below)				<b>READOUT</b> D = Dual

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



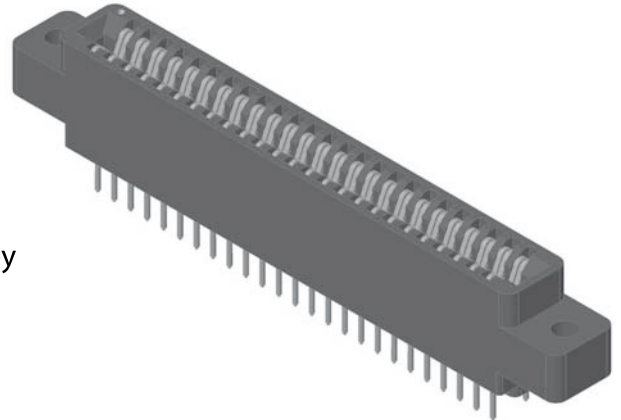
POSITIONS/ CONTACTS	INCHES					F±.005	[MILLIMETERS]					F±.013
	A±.008	B±.008	C±.015	D±.010	E±.020		A±.020	B±.020	C±.038	D±.025	E±.051	
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



**.100" Contact Centers, .610" Insulator Height,  
Wire Wrap & Dip Solder**

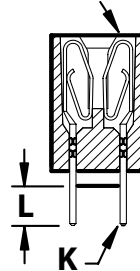
**SPECIFICATIONS**

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



**TERMINATION TYPE**

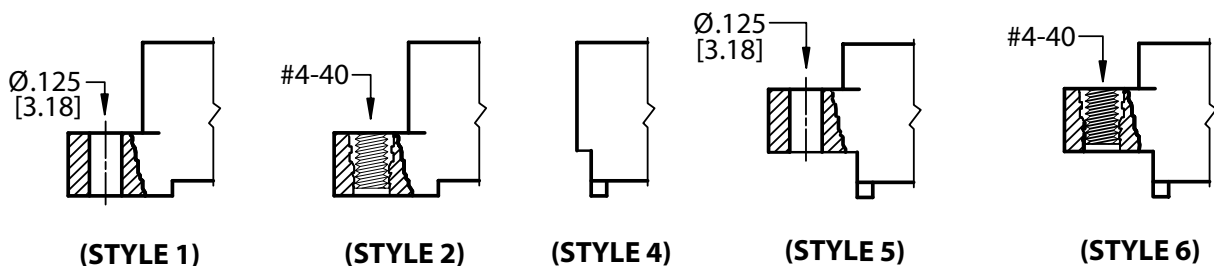
**LOOP BELLOWS**



**LOOP BELLOWS**

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i><b>MPSL-0100-10-DR-1HK</b></i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i><b>MPSL-0100-10-DR-1HK(.165)</b></i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i><b>MPSL-0100-10-DW-1HK</b></i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i><b>MPSL-0100-10-DW-1K</b></i>

**MOUNTING STYLE**





**.100" Contact Centers, .610" Insulator Height,  
Wire Wrap & Dip Solder**

**PART NUMBER CODING**

**PLATING - RoHS Compliant**  
All Platings are Lead Free and have .000050" Nickel Underplate

**Contact Surface Termination**

\*MPSL = .000010" Gold .000100" Pure Tin, Matte  
\*MPL = .000100" Overall Pure Tin, Matte  
MP = .000010" Overall Gold

**\*Requires 'K' Modification Code**

**INSULATOR MATERIAL\*\***  
0 = PBT

**CONTACT CENTERS**  
100 = .100" [2.54mm]

**NUMBER OF POSITIONS**  
Contacts Per Row (See Position Chart Below)

**READOUT**  
D = Dual

**PLATING MODIFICATION CODE\*\***  
K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)

**MODIFICATION CODE\*\***  
(See Opposite Page)  
H = Dip Solder .190[4.83] Tail Length  
(.026 Round or .025 Square)  
H(.165) = Dip Solder .165[4.19] Tail Length  
(.026 Round Only)

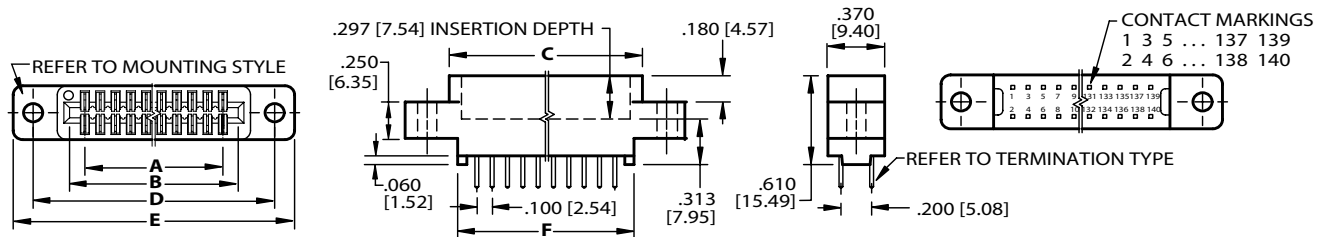
**MOUNTING STYLE** (See Opposite Page)  
1 = .125" Clearance Hole  
2 = #4-40 Threaded Insert  
4 = No Mounting  
5 = Raised, .125" Clearance Hole  
6 = Raised, #4-40 Threaded Insert

**TERMINATION TYPE** (See Opposite Page)  
**LOOP BELLOWS**  
R = .026[.66mm] Round  
W = .025[.64mm] Square

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



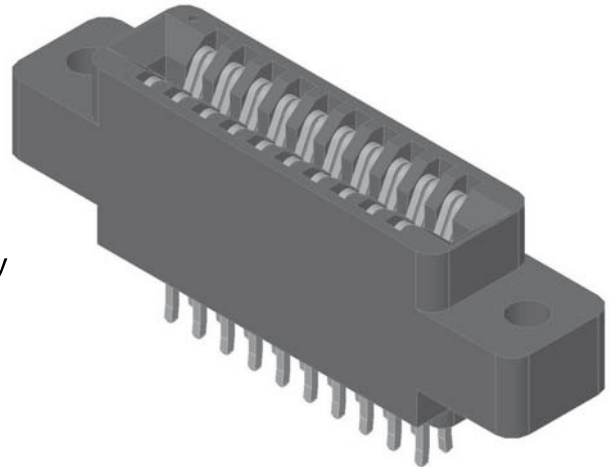
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



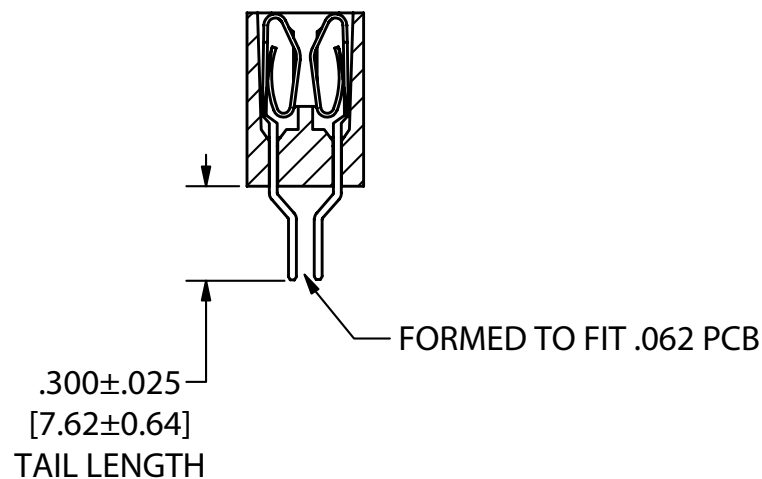
**.100" Contact Centers, .550" Insulator Height,  
.025" Square Card Extender**

## SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

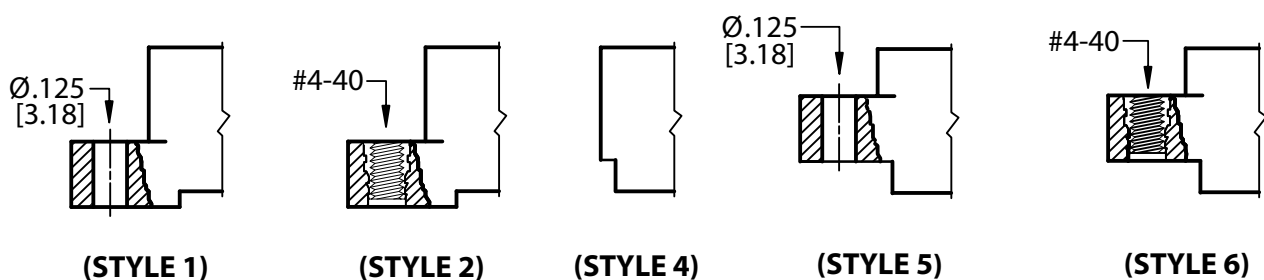


## TERMINATION TYPE



**Example P/N: MP~~SL~~-0100-10-D~~WE~~-4K~~TT~~**

## MOUNTING STYLE





**.100" Contact Centers, .550" Insulator Height,  
.025" Square Card Extender**

**PART NUMBER CODING**

**MPSL - 0 100 - 10 - D WE - 4 K TT**

**PLATING - RoHS Compliant**  
All Platings are Lead Free and have .000050" Nickel Underplate  
**Contact Surface**      **Termination**  
\*MPSL = .000010" Gold      .000100" Pure Tin, Matte  
\*MPL = .000100" Overall Pure Tin, Matte  
MP = .000010" Overall Gold  
\*Requires 'K' Modification Code

**INSULATOR MATERIAL\*\***  
0 = PBT

**CONTACT CENTERS**  
100 = .100" [2.54mm]

**NUMBER OF POSITIONS**  
Contacts Per Row (See Position Chart Below)

**READOUT**  
D = Dual

**MODIFICATION CODE\*\***  
TT = No Standoffs

**PLATING MODIFICATION CODE\*\***  
K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)

**MOUNTING STYLE** (See Opposite Page)  
1 = .125" Clearance Hole  
2 = #4-40 Threaded Insert  
4 = No Mounting  
5 = Raised, .125" Clearance Hole  
6 = Raised, #4-40 Threaded Insert

**TERMINATION TYPE** (See Opposite Page)  
WE = Card Extender

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

<b>DIMENSIONS</b> Dimensions in [ ] are in millimeters, all others are in inches.												
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61

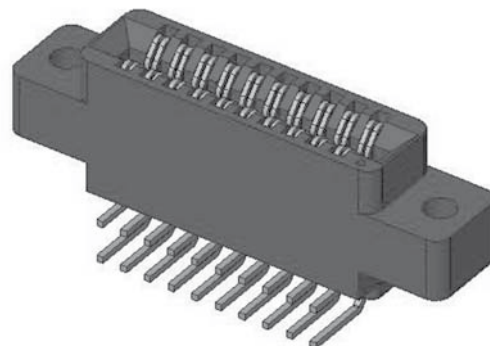




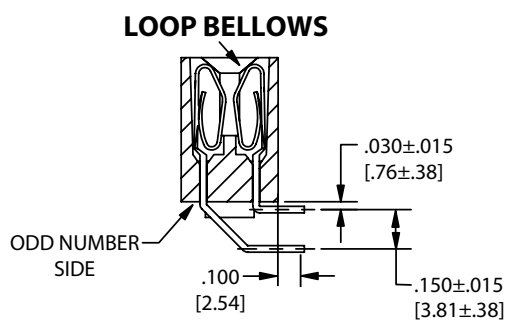
## .100" Contact Centers, .610" Insulator Height, Right Angle

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

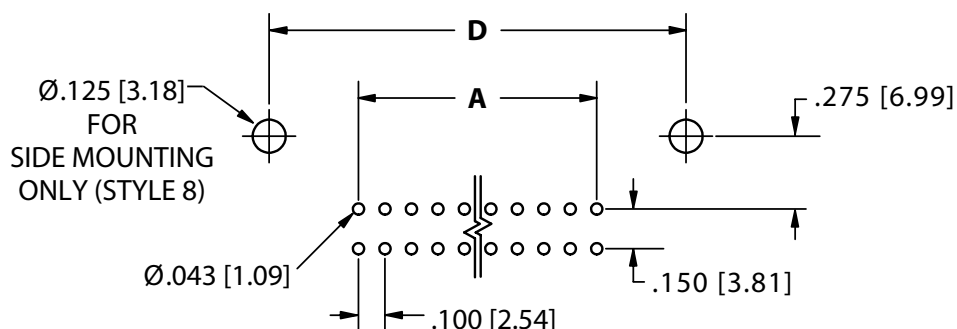


### TERMINATION TYPE

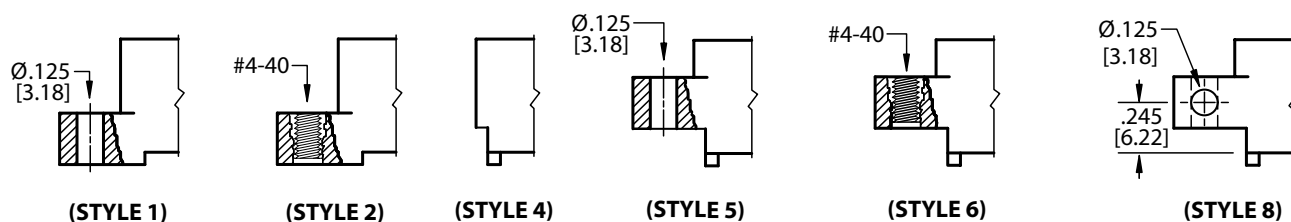


**Example P/N: MP-0100-10-DW-1R**

### PCB LAYOUT

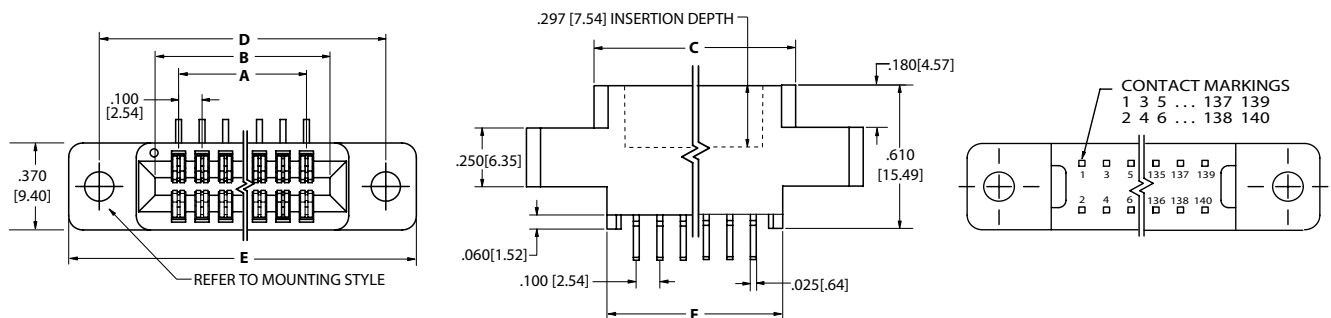


### MOUNTING STYLE



**.100" Contact Centers, .610" Insulator Height,  
Right Angle****PART NUMBER CODING**

<b>PLATING - RoHS Compliant</b> All Platings are Lead Free and have .000050" Nickel Underplate <b>Contact Surface</b> *MPSL = .000010" Gold *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold <b>*Requires 'K' Modification Code</b>	<b>INSULATOR MATERIAL**</b> 0 = PBT	<b>CONTACT CENTERS</b> 100 = .100" [2.54mm]	<b>NUMBER OF POSITIONS</b> Contacts Per Row (See Position Chart Below)	<b>READOUT</b> D = Dual	<b>MODIFICATION CODE**</b> R = Right Angle	<b>PLATING MODIFICATION CODE**</b> K = Required on MPSL or MPL Plating Omit for MP Plating (Overall Gold)	<b>MOUNTING STYLE</b> (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 4 = No Mounting 5 = Raised, .125" Clearance Hole 6 = Raised, #4-40 Threaded Insert 8 = Raised, Side Mounting, .125" Clearance Hole	<b>TERMINATION TYPE</b> (See Opposite Page) <b>LOOP BELLOWS</b> W = .025 [.64] Square
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**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS****DIMENSIONS** Dimensions in [ ] are in millimeters, all others are in inches.

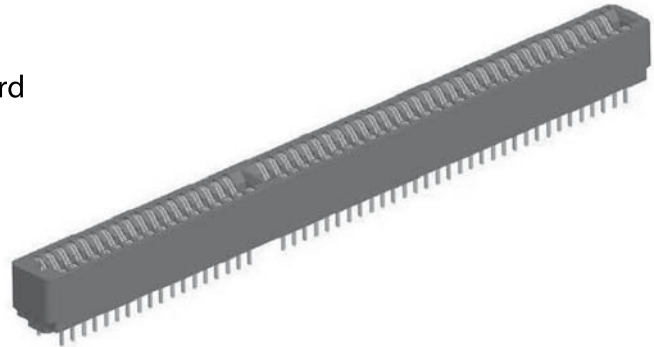
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



**.100" Contact Centers, .610" Insulator Height,  
Special 18/31 with Barrier, Dip Solder/Wire Wrap, [ISA]**

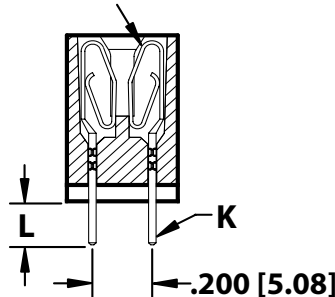
## SPECIFICATIONS

- ISA Connector
- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



## TERMINATION TYPE

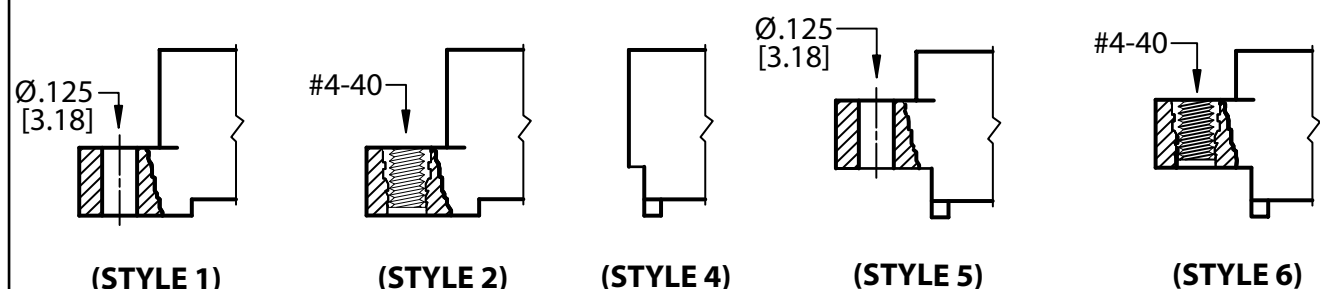
### LOOP BELLOWS



### LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i><b>MPSL-0100-18/31-DR-1HK</b></i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i><b>MPSL-0100-18/31-DR-1HK(.165)</b></i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i><b>MPSL-0100-18/31-DW-1HK</b></i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i><b>MPSL-0100-18/31-DW-1K</b></i>

## MOUNTING STYLE



(STYLE 1)

(STYLE 2)

(STYLE 4)

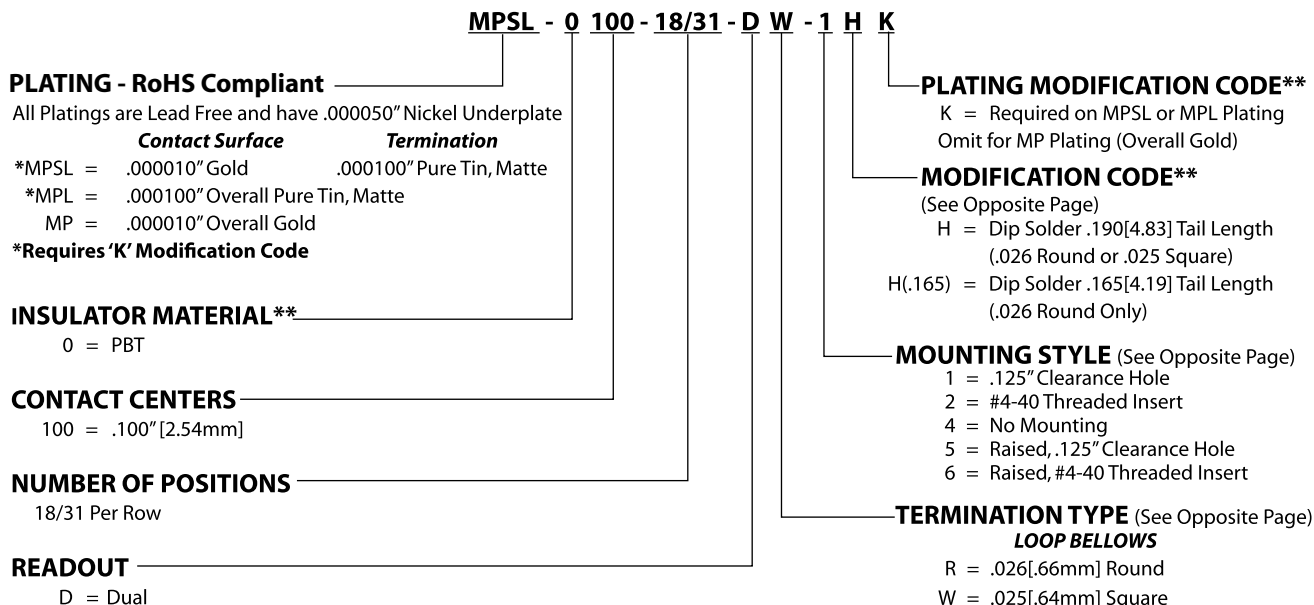
(STYLE 5)

(STYLE 6)



**.100" Contact Centers, .610" Insulator Height,  
Special 18/31 with Barrier, Dip Solder/Wire Wrap, [ISA]**

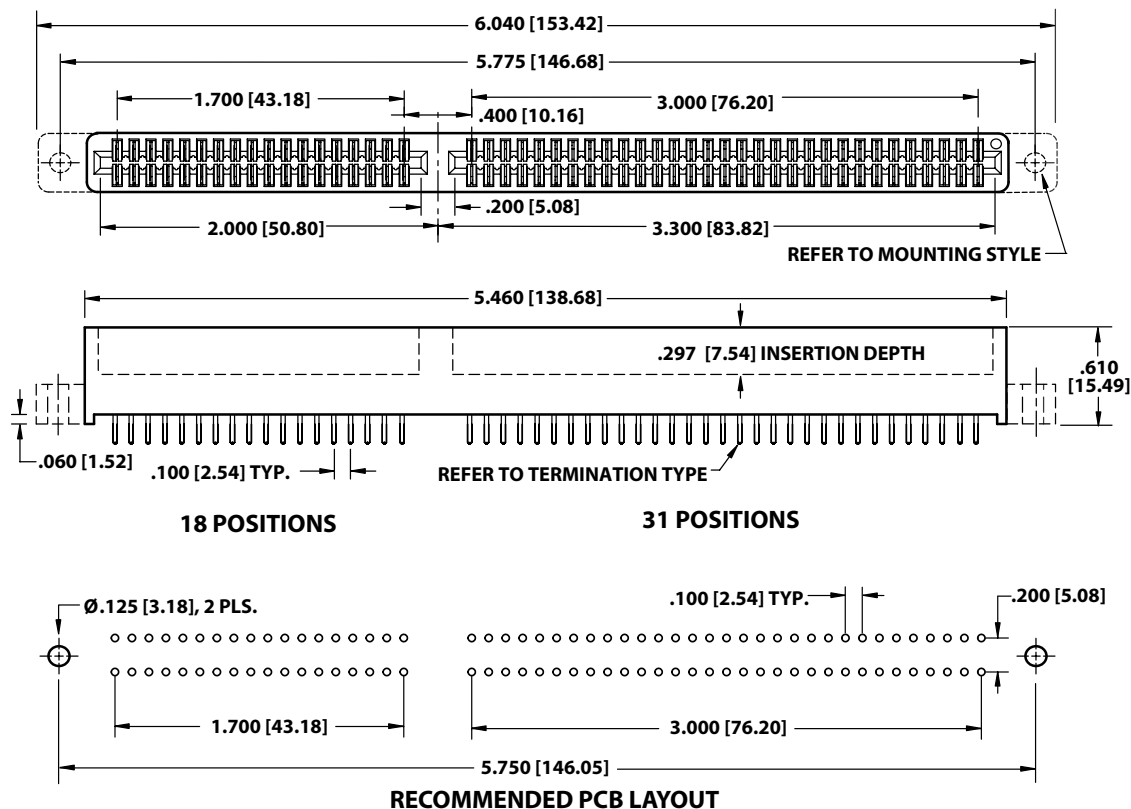
**PART NUMBER CODING**



**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS  
CONSULT FACTORY FOR RIGHT ANGLE VERSION**

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



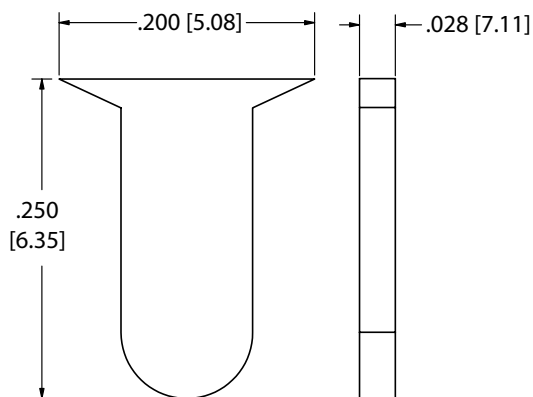
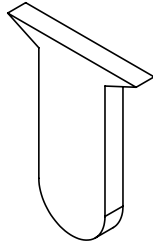


**ALL KEYS ORDERED SEPARATELY**

**IN BETWEEN CONTACT KEY**

**P/N: 04-0001-000**

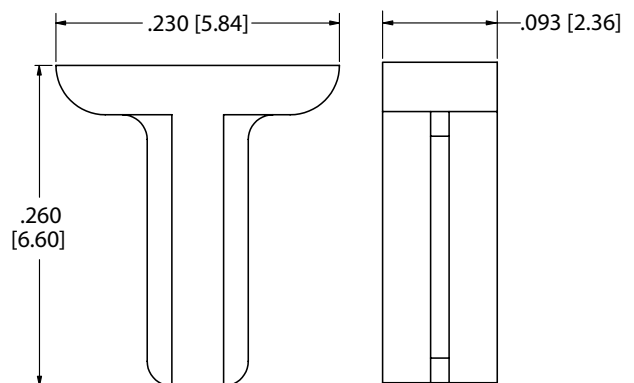
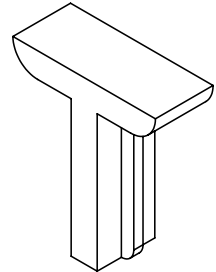
**SULLINS PART: PLM-K1**



**IN CONTACT KEY**

**P/N: 04-0002-000**

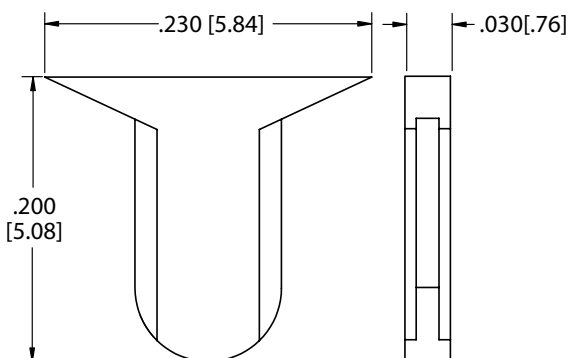
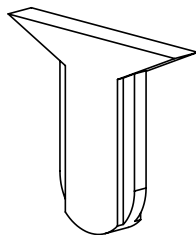
**SULLINS PART: PLM-K2**



**IN BETWEEN CONTACT KEY**

**P/N: 04-0003-000**

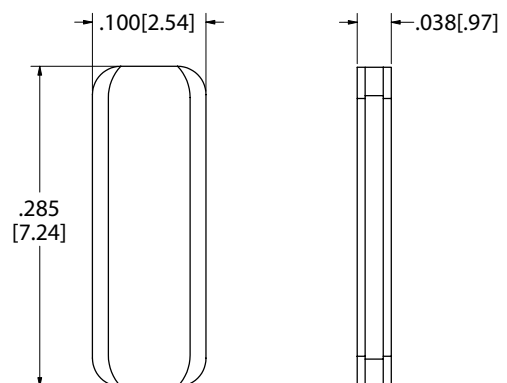
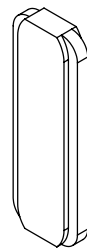
**SULLINS PART: PLA-K1**



**IN BETWEEN CONTACT KEY**

**P/N: 04-0004-000**

**SULLINS PART: PLC-K1**





## GENERAL SPECIFICATIONS

### RoHS COMPLIANT

RoHS  
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 81 of this catalog.

### MATERIALS

To determine Assembly Operating Temperature, take the lower of two temperatures

			Operating Temperature	Processing Temperature
<b>Insulator:</b>				
Standard	PBT, Valox*	Glass filled Thermoplastic Polyester	-65°C to +130°C	260°C / 10 Seconds
Special	PPS, Ryton*	Glass/Mineral filled Polyphenylene Sulfide, Green	-65°C to +220°C	260°C / 120 Seconds
Special	PPS, Ryton*	Glass filled Polyphenylene Sulfide, Brown	-65°C to +200°C	260°C / 120 Seconds
Special	PA9T	High Temperature Polyamide	-65°C to +150°C	260°C / 120 Seconds
Special	Peek	Glass filled Polyetheretherketone	-65°C to +250°C	

**Contacts:**

Standard	Phosphor Bronze (Available in All Contact Styles)	-65°C to +125°C
Special	Beryllium Copper (Consult Factory)	-65°C to +150°C
Special	Spinodal** (Consult Factory)	-65°C to +200°C
Special	Beryllium Nickel (Consult Factory)	-65°C to +300°C

**Plating:**

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

**UL/CUL File Number:** E64287 Section 2

**Cage Code:** 31223

\* Or equivalent.

\*\* Consult factory for special soldering guidelines.

### MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

**Special Insertion/Withdrawal forces available upon request**

### ELECTRICAL PERFORMANCE (Per Mil-C-21097C)

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers: .100"[2.54mm] .125"[3.18mm] .150"[3.81mm] .156"[3.96mm]

Voltage: 600 VDC 800 VDC 1500 VDC 1800 VDC

750 VAC 750 VAC 900 VAC 950 VAC

Current Rating: 3 to 5 amperes (amps) per contact

Voltage Drop: 30 Milli volt at rated current

Contact Resistance: 30 Milli ohm maximum at rated current

**Registered Trademarks**

Sabco Innovative Plastics: Valox

Gardner-Denver Co.: Wire Wrap

Phillips 66: Ryton

Ametek: Spinodal

RTP Compounder: PEEK

Underwriters Labs: UL

Sullins Electronics: Sullins

Sullins Electronics: Zero Lead Time





**MP - 0 100 - 22 - D W - 5 xxx**

## PLATING - RoHS Compliant

ALL PLATINGS ARE LEAD FREE AND HAVE  
.000050" NICKEL UNDERPLATE

	Contact Surface	Termination
*MPSL =	.000010" Gold	.000100" Pure Tin Matte
*EMPSL =	.000010" Gold	.000100" Pure Tin Matte
*MPL =	.000100" Overall Pure Tin, Matte	
*EMPL =	.000100" Overall Pure Tin, Matte	
MP =	.000010" Overall Gold	
EMP =	.000010" Overall Gold	
MPP =	Spinodal Contact Material (Overall Gold Only)	
EMPP =	Spinodal Contact Material (Overall Gold Only)	

### \* Requires 'K' Modification Code

Platings that start with 'E' are for Economy Eyelet Only  
Other Plating and thicknesses available upon request.

## INSULATOR MATERIAL

All Materials are U.L. Approved 94-Vo

- 0 = PBT, Blue
- 1 = PPS, Brown
- 2 = PBT, Green
- 3 = PBT, Black
- 4 = PA9T, Black
- 5 = PPS, Black
- 6 = PPS, Green
- 7 = PPS, Brown
- 8 = Peek, Natural

## CONTACT CENTERS

- 100 = .100" [2.54mm]
- 125 = .125" [3.18mm]
- 150 = .150" [3.84mm]
- 156 = .156" [3.96mm]

## NUMBER OF POSITIONS

02 - 70 Contacts Per Row

## READOUT

D = Dual Row

## TERMINATION TYPE

- FS = .045" Square Tails - .720" Insulator Height
- P = Solder Eyelet - .431" Insulator Height
- PE = Economy Eyelet - .431" Insulator Height,  
Card Extender, .156" only
- R = .026" Round Tails - .610" Insulator Height,
- S = Dip Solder - .431" Insulator Height
- SE = Card Extender - .431" Insulator Height
- W = .025" Square Wire Wrap -  
.610" Insulator Height
- WE = .025" Square Card Extender -  
.610" Insulator Height

## MOUNTING STYLE

- 1 = **.125" Clearance Holes**  
.245" Ears, .431" Insulator Height  
.250" Flush Ears, .610" Insulator Height
- 2 = **#4-40 Threaded Insert**  
.245" Ears, .431" Insulator Height  
.250" Flush Ears, .610" Insulator Height
- 3 = **Floating Bobbin**  
.220" Ears not Including Bobbin  
on All Connectors  
(Flush Ears on .610 Insulator Height )
- 4 = **No Mounting Ears**  
All Connectors
- 5 = **Raised with .125" Clearance Holes**  
Wire Wrap Only, .610" Insulator Height
- 6 = **Raised with #4-40 Threaded Insert**  
Wire Wrap Only, .610" Insulator Height
- 8 = **.125" Side Holes** (Cross Drilled)
- 9 = **One Ear, .125" Clearance Hole**  
Dip Solder & Eyelet
- 10 = **One Ear, #4-40 Threaded Insert**  
Dip Solder & Eyelet
- 11 = **.142" Mounting Holes**  
.431" Insulator Height, Dip Solder, Eyelet  
.610" Insulator Height, Wire Wrap
- 12 = **.128" Clearance Holes**  
.431" Insulator Height, Dip Solder & Eyelet  
.610" Insulator Height, Wire Wrap
- 13 = **Flush Ears, .128" Clearance Holes**  
.430" Ears with Pad on .610" Insulator  
Height, Wire Wrap Only
- 14 = **.142" Side Holes** (Cross Drilled)  
.431" Insulator Height, Dip Solder, Eyelet  
.610" Insulator Height, Wire Wrap
- 15 = **Flush Ears, .125" Clearance Holes**  
.190" Ears, No Pad  
.610" Insulator Height, Wire Wrap Only
- 16 = **Flush .250" Ears to top of the  
Card Entry Side of the Connector,**  
.610" Insulator Height, Wire Wrap Only
- 18 = **Flush Ears, .125" Side Holes**  
(Cross Drilled)
- 19 = **.152" Clearance Holes**  
.610" Insulator Height, Wire Wrap Only
- 58 = **Raised Ears, .125" Side Holes**  
(Cross Drilled)
- 81 = **Flush Ears, .125" Side Holes**  
.250" Ears with Pad, .610" Insulator Height,  
Wire Wrap
- 86 = **Side Holes with #4-40 Threaded Insert**  
.250" Ears with Pad, .610" Insulator Height

## MODIFICATION CODE

### CONSULT FACTORY FOR OTHER OPTIONS

- A = **Contacts Loaded one side only**
- B = **Center Barrier for 28/56 -**  
.156" Dip Solder & Eyelet
- C = **.030" Longer Cardslot and  
Mounting Hole Centers for 22/44,**  
All .156" (Consult Factory)
- D = **.000050" Gold Plating -**  
(Consult Factory)
- E9 = **.200" Row Spacing on .156"**  
**Contact Centers**
- F = **6.802" Cardslot for 43/86**  
.156" Eyelet & Wire Wrap Only
- F9 = **6.802" Cardslot and .200" Row  
Spacing for 43/86 Dip Solder Only**
- G = **.000030" Gold Plating**
- H = **.190" Contact Length for .025"**  
Square & .026" Round Contacts  
**.250" Contact Length** without  
Standoffs
- J = **Low Insertion Force**
- K = **MPSL - Selective Gold with Pure  
Tin, Matte Plating on Tails**  
**MPL - Overall Pure Tin, Matte**
- L = **.140" Contact Length for**  
.156" Dip Solder Only
- M = **Pad on Bottom of Mounting Ears**  
for .156", .431" Insulator Height,  
Dip Solder & Eyelet Only
- N = **Hi-light Contact ID on Bottom**  
(Consult Factory)
- P = **Engraving Reversed**  
(Consult Factory)
- Q = **Right Angle Connector Contacts  
Untrimmed**  
(Requires 'R' Modification Code)
- R = **Right Angle Connectors**
- S = **Shorter Overall Length**
- T = **Center Standoffs Removed**  
.100" & .125" Wire Wrap Only
- TT = **No Standoffs**
- U = **.000020" Gold Plating**
- X9 = **.200" Row Spacing for**  
.100" & .156" Dip Solder Only  
**.250" Row Spacing for**  
.125" Dip Solder Only
- Y = **Beryllium Copper Contacts**
- Z = **Standoffs on .156" Wire Wrap**

**See applicable specification pages for more information.**

Specifications are subject to change without notice.