

# PART NUMBER BREAKDOWN

MP - 0 100 - 22 - DW - 5 XXX

## PLATING

ALL have .000050" NICKEL Underplate  
MPL, EMPL, MPPL & EMPPL  
(Require 'K' Modification code)

MP - .000010" overall gold plating  
MPL or EMPL - .000100" overall pure tin, matte  
MPPL or EMPPL - contact surface .000010" gold termination .000100" pure tin, matte  
MPP - Spinodal contact material (Overall gold only)  
L = LEAD FREE

## INSULATOR MATERIALS

All Materials are U.L. Approved 94-Vo  
0 - G.E. Valox 420-SEO Color: Blue (MPI Std.)  
1 - Ryton R-4 Material Color: Dark Brown  
2 - G.E. Valox 420-SEO Color: Green  
3 - G.E. Valox 420-SEO Color: Black  
4 - Genstar PA9T; Black  
5 - Ryton R-10 Material Color: Black  
6 - Ryton R-10 Material Color: Green  
7 - Ryton R4-04 Material Color: Light Brown

## CONTACT SPACING

.100  
.125  
.150  
.156

## NUMBER OF POSITIONS

02 - 70

D - Dual row

S - Single row

FS - .045 square tails

P - Solder eyelet

R - .026 round tails

S - Dip solder

SE - Extender card low profile

W - .025 square wire wrap

WE - Extender card type - high profile

## MOUNTING STYLES

- 1 - Flush mounted thru-hole .250 including pads on .100 and .125 Dip Solder and Eyelets. .220 No Pads .156 Dip Solder and Eyelets. .250 including pads on all Wire Wraps, .100, .125 and .156
- 2 - Flush mounted Threaded Inserts .250 Including pads on .100 and .125 Dip Solder and Eyelets. .220 No pads on .156 Dip Solders and Eyelets. .250 Including pads on all Wire Wraps, .100, .125 and .156
- 3 - Flush mounted Floating Bushings for any connector. Ears to be .220 thick not including bushing.
- 4 - NO Mounting Ears, All connectors
- 5 - Raised (Mid Ear) Mounting Ears .125 thru-hole, Wire Wraps only.
- 6 - Raised (Mid Ear) Mounting Ears 4- 40 Threaded Insert, Wire Wraps Only.
- 7 -
- 8 - Cross Drilled .125 thru-holes
- 9 - One Ear Only, .125 thru hole Dip Solder and Eyelets Only
- 10 - One Ear Only, Threaded Insert Dip Solder and Eyelets only
- 11 - .142 thru-hole in mounting styles-Dip Solders and Eyelets. Also raised ears Wire Wrap.
- 12 - .128 thru-hole in mounting-1 Dip Solder and Eyelets, -5 Wire Wraps
- 13 - .128 thru-hole, .430 thick Flush Ears including pads. Wire Wraps Only
- 14 - Cross Drilled .142 thru-holes, No Std. holes molded in Ears. -1 Dip Solder and Eyelets, -5 Wire Wraps.
- 15 - Flush mounting with .125 thru-holes in .190 Thick Ears. No pads, Wire Wrap Only.
- 16 - Flush .250 Mounting Ears to the top of the card entry side of the connector. Wire Wraps Only.
- 17 -
- 18 - Flush .125 thru-holes with .125 Cross Drilled Holes
- 19 - Raised (Mid Ear) Mounting Ears with .152 thru-holes. Wire Wraps Only.
- 58 - Raised .125 thru-holes with .125 Cross Drilled holes
- 81 - Flush .250 Thick Ears with pads with .125 Cross Drilled Holes Only. Wire Wraps Only.
- 86 - Raised .250 Thick Ears with .125 Cross Drilled holes and 4-40 Inserts installed. No holes molded in Wire Wraps Only.

## MODIFICATION CODES

- A - Contact loaded on one side ONLY
- B - Center Barrier for 28/56, .156 Dip Solder and Eyelet only.
- C - .030 longer card slot, .030 longer mounting hole centers on 22/44 .156 (SPECIAL)
- D - .000050 Gold plating
- E9 - .200" Rows on .156" Contact Centers.
- F - 6.802 card slot for 43/86, .156 Dip Solder, Eyelet and Wire Wrap Only.
- F9 - 6.802 card slot and .200 between row spacing for 43/86 Dip Solder Only.
- G - .000030 Gold plating
- H - .200 contact length for .025 Square and .026 Round contacts for .100 and .125 .260 length for .156 without Stand-off.
- J - Low Insertion forces
- K - MP series is All tin plated contacts MPS series is tin plated contact tails.
- L - .140 contact length for .156, Double Row, Dip Solder Only.
- M - Pad on bottom of mounting ears for .156 Dip Solder and Eyelets Only.
- N - Hi-Liting of Engraved Numbers on bottom
- P - Engraving Reversed
- Q - Right angle Connectors with contacts NOT cut-off
- R - Right Angle connectors
- S - Shorter overall length
- T - Center Stand-Offs removed from .100 and .125 Wire Wraps Only.
- TT - No Stand-offs at all on .100 and .125 Wire Wraps Only.
- U - .000020 Gold plating
- V - .000015 Gold Plating
- W - .100 Wire Wrap, cross to OLD Winchester version
- X -
- X9 - .200 Between row spacing for .100 and .156 Dip Solder Only. .250 between row spacing for .125 Dip Solder Only.
- Y - Beryllium Copper contacts
- Z - Stand-offs on .156 Wire Wraps

# .156

## Contact Centers Edgecard Connectors Dip Solder and Pierced Eyelet - Single Row

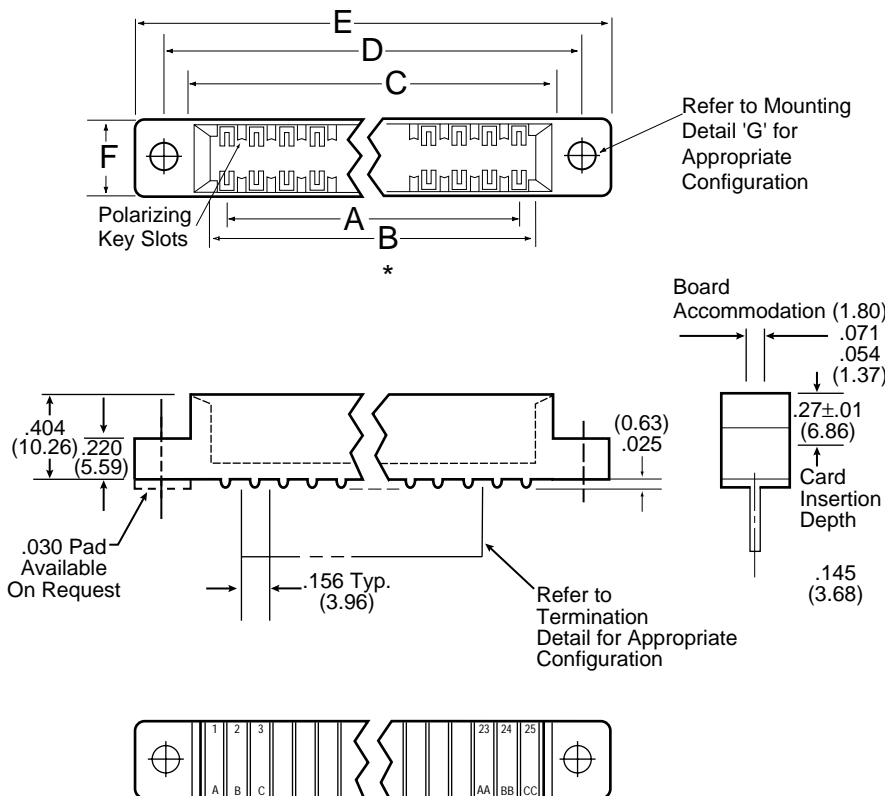
U.L. APPROVED E78000 (S)

### Part Number Description



	MP - 0156 - 10 - S P - 1 K
Micro Plastics	MP
Contact Spacing	0156
Number of Contacts per row	10
Single Readout	S
Pierced Eyelet	P
Dip Solder	S
.125 Dia. Hole	1
4-40 Thread	2
Floating Bobbin	3
No. Mtg. Ears	4
.125 Dia. Side Hole	8
All Tin Plated Contacts for MP Series	K

### Dimensions



Note: 36/72 & 43/86 contact identification  
 Letters A, B, C ...  $\bar{A}\bar{B}\bar{C}$  ...  $\bar{R}$   
 Numers 1, 2, 3 ... 36

Note: Omit letters G, I, O, Q

### General Information

**CONTACT FORCES PER MIL-C-21097C**

**MATERIALS/FINISHES:**

- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)  
**Color:** Blue U.L. Approved\* Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Bifurcated full bellows style in phosphor bronze material. Beryllium copper and pfinodal materials available upon request for hi-temp applications.
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface.

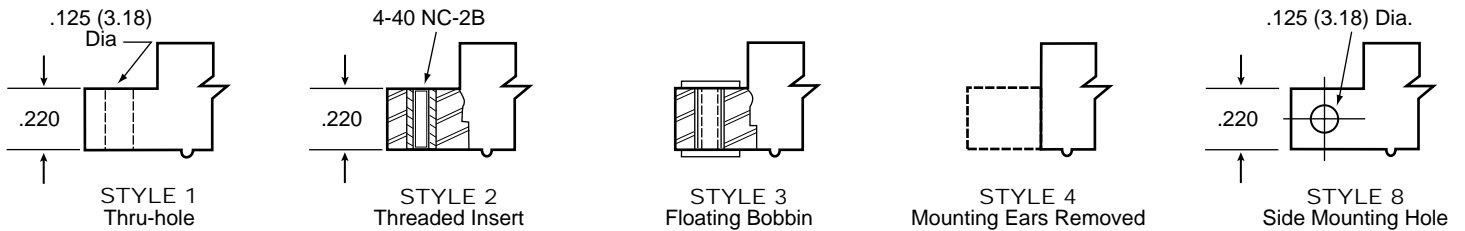
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material and thickness available upon request.

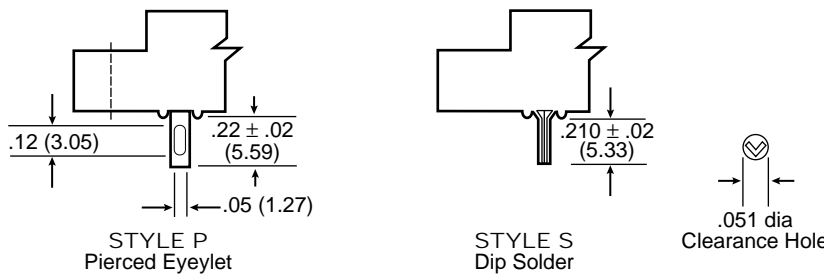
# Low Profile

## .156 SINGLE ROW

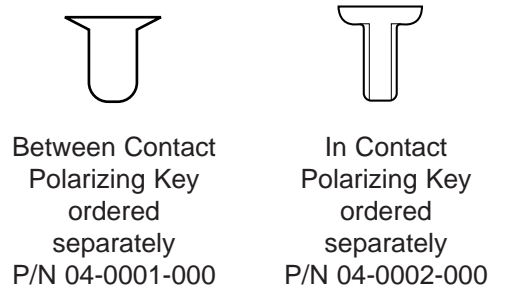
### Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



### Termination Styles-Detail H



### Polarizing Key



### Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.010	E ±.020	F ±.006	A ±0.25	B ±0.25	C ±0.38	D ±0.25	E ±0.51	F ±0.38
MP-0156-02-**-*	2	.156	.456	.596	—	—	.320	3.96	11.58	15.14	—	—	8.13
MP-0156-03-**-*	3	.312	.612	.752	—	—	.320	7.93	15.55	19.10	—	—	8.13
MP-0156-06-**-*	6	.780	1.080	1.220	1.533	1.860	.320	19.81	27.43	30.99	38.94	47.24	8.13
MP-0156-08-**-*	8	1.092	1.392	1.532	1.845	2.172	.320	27.74	35.36	38.91	46.86	55.17	8.13
MP-0156-10-**-*	10	1.404	1.704	1.844	2.157	2.484	.320	35.66	43.28	46.84	54.79	63.09	8.13
MP-0156-11-**-*	11	1.560	1.860	2.000	2.313	2.640	.320	39.62	47.24	50.80	58.75	67.06	8.13
MP-0156-12-**-*	12	1.716	2.016	2.156	2.469	2.796	.320	43.59	51.21	54.76	62.71	71.02	8.13
MP-0156-15-**-*	15	2.184	2.484	2.624	2.937	3.264	.320	55.47	63.09	66.65	74.60	82.91	8.13
MP-0156-18-**-*	18	2.652	2.952	3.092	3.405	3.732	.320	67.36	74.98	78.54	86.49	94.79	8.13
MP-0156-22-**-*	22	3.276	3.576	3.716	4.029	4.356	.320	83.21	90.83	94.39	102.34	110.64	8.13
MP-0156-24-**-*	24	3.588	3.888	4.028	4.341	4.668	.320	91.14	98.76	102.31	110.26	118.57	8.13
MP-0156-25-**-*	25	3.744	4.044	4.184	4.497	4.824	.320	95.10	102.72	106.27	114.22	122.53	8.13
MP-0156-28-**-*	28	4.212	4.512	4.652	4.965	5.276	.438	106.99	114.61	118.16	126.11	134.01	11.13
MP-0156-30-**-*	30	4.524	4.824	4.964	5.277	5.588	.500	114.91	122.53	126.09	134.04	141.94	12.70
MP-0156-36-**-*	36	5.460	5.762	5.906	6.219	6.540	.438	138.68	146.36	150.01	157.96	166.12	11.13
MP-0156-43-**-*	43	6.552	6.854	7.000	7.302	7.615	.500	166.42	174.09	177.80	185.47	193.42	12.70

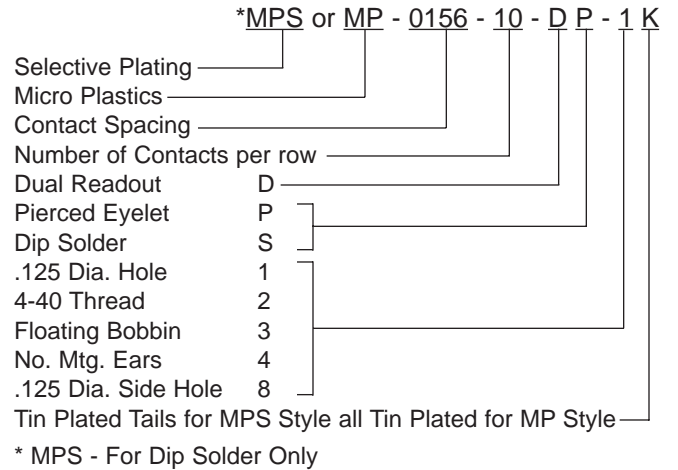
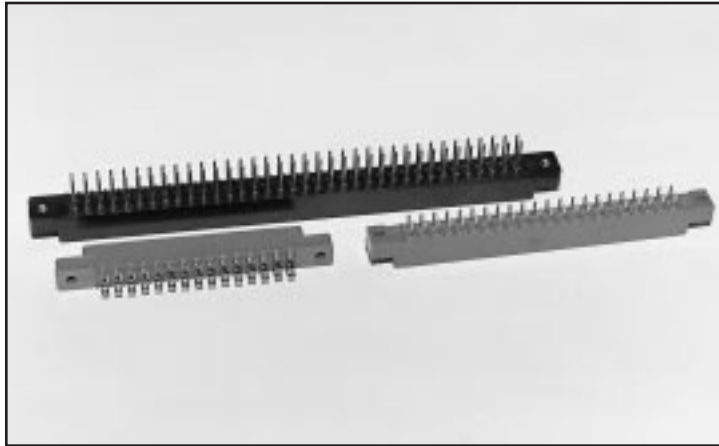
NOTE: Add mounting and termination style digits to part number.  
\*.020 (0.51) Longer card slot available (modification 'E')

# .156

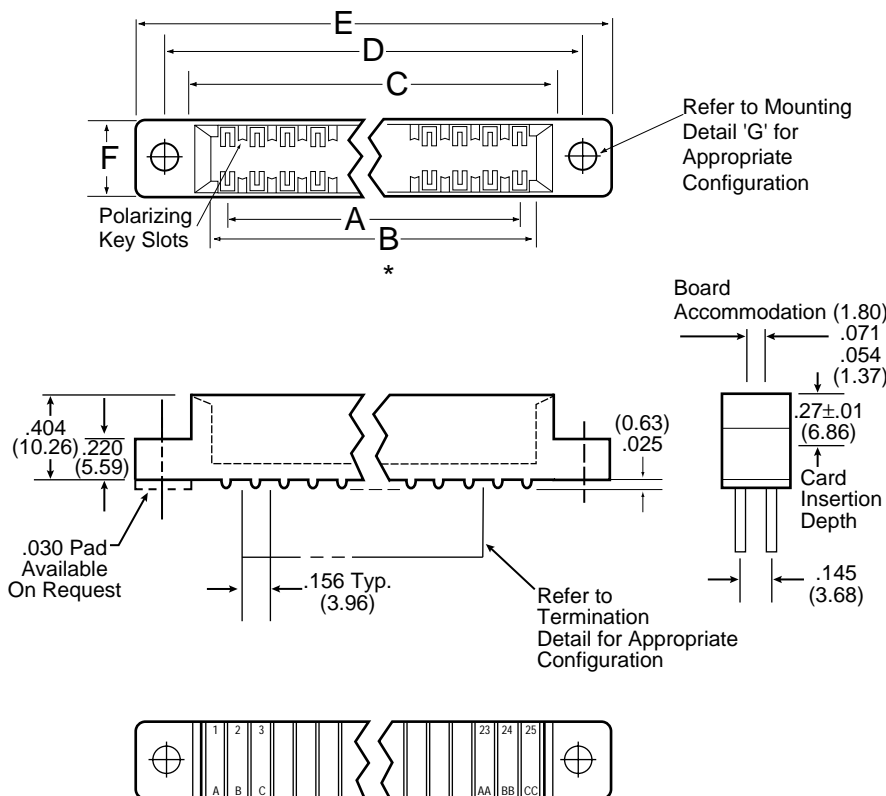
## Contact Centers Edgecard Connectors Dip Solder and Pierced Eyelet - Double Row

U.L. APPROVED E78000 (S)

### Part Number Description



### Dimensions



Note: 36/72 & 43/86 contact identification  
Letters A, B, C ...  $\bar{A}\bar{B}\bar{C}$  ... R  
Numerals 1, 2, 3 ... 36

Note: Omit letters G, I, O, Q

### General Information

**CONTACT FORCES PER MIL-C-21097C**

**MATERIALS/FINISHES:**

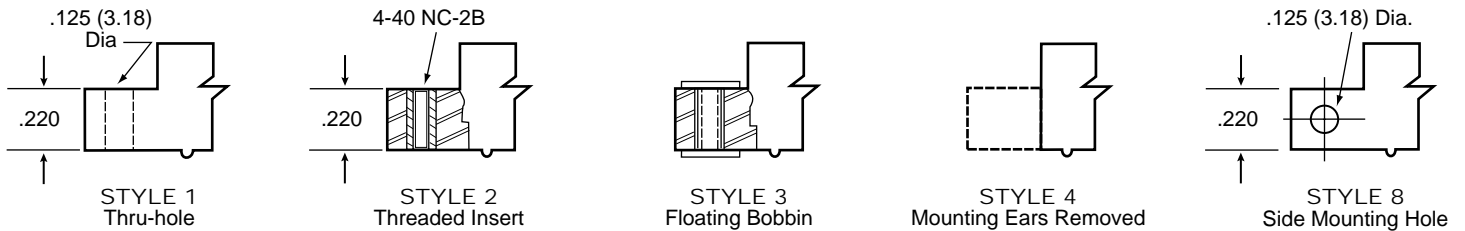
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)
- **Color:** Blue U.L. Approved\* Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Bifurcated full bellows style in phosphor bronze material. Beryllium copper and pfinodal materials available upon request for hi-temp applications.
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface. 'MPS' style is .000010 to .000015 gold per MIL-G-45204 over nickel on bellows face only, tails are tin plated (must have Mod. Code 'K' with 'MPS' style).
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material and thickness available upon request.

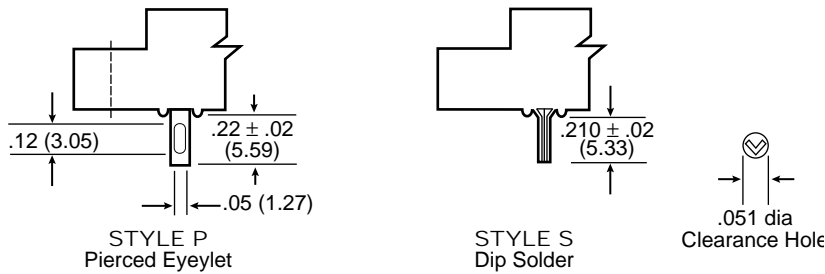
# Low Profile

.156 x .145 ROW

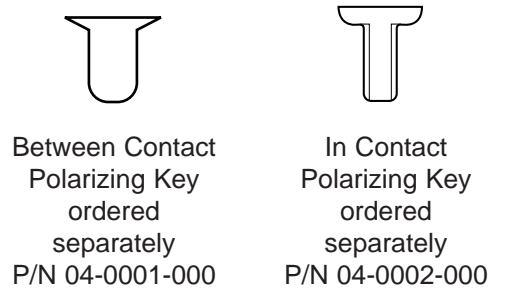
## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key



## Part Numbers/Dimensions

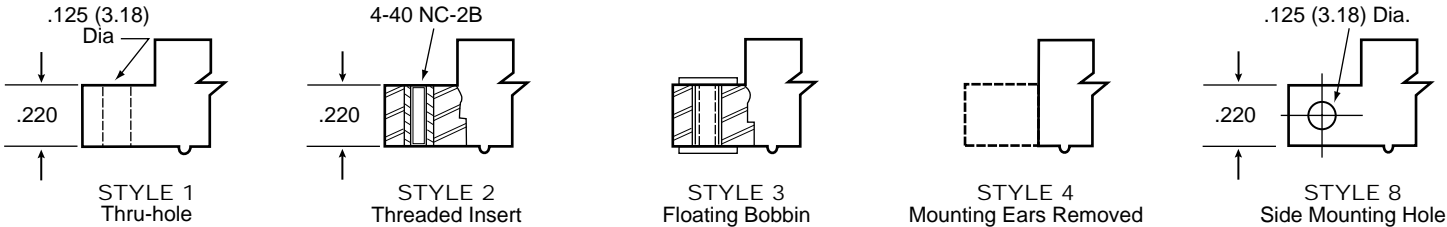
PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.010	E ±.020	F ±.006	A ±0.25	B ±0.38	C ±0.38	D ±0.25	E ±0.51	F ±0.38
MP-0156-02-***	2/4	.156	.456	.596	—	—	.320	3.96	11.58	15.14	—	—	8.13
MP-0156-03-***	3/6	.312	.612	.752	—	—	.320	7.93	15.55	19.10	—	—	8.13
MP-0156-06-***	6/12	.780	1.080	1.220	1.533	1.860	.320	19.81	27.43	30.99	38.94	47.24	8.13
MP-0156-08-***	8/16	1.092	1.392	1.532	1.845	2.172	.320	27.74	35.36	38.91	46.86	55.17	8.13
MP-0156-10-***	10/20	1.404	1.704	1.844	2.157	2.484	.320	35.66	43.28	46.84	54.79	63.09	8.13
MP-0156-11-***	11/22	1.560	1.860	2.000	2.313	2.640	.320	39.62	47.24	50.80	58.75	67.06	8.13
MP-0156-12-***	12/24	1.716	2.016	2.156	2.469	2.796	.320	43.59	51.21	54.76	62.71	71.02	8.13
MP-0156-15-***	15/30	2.184	2.484	2.624	2.937	3.264	.320	55.47	63.09	66.65	74.60	82.91	8.13
MP-0156-18-***	18/36	2.652	2.952	3.092	3.405	3.732	.320	67.36	74.98	78.54	86.49	94.79	8.13
MP-0156-22-***	22/44	3.276	3.576	3.716	4.029	4.356	.320	83.21	90.83	94.39	102.34	110.64	8.13
MP-0156-24-***	24/48	3.588	3.888	4.028	4.341	4.668	.320	91.14	98.76	102.31	110.26	118.57	8.13
MP-0156-25-***	25/50	3.744	4.044	4.184	4.497	4.824	.320	95.10	102.72	106.27	114.22	122.53	8.13
MP-0156-28-***	28/56	4.212	4.512	4.652	4.965	5.276	.438	106.99	114.61	118.16	126.11	134.01	11.13
MP-0156-30-***	30/60	4.524	4.824	4.964	5.277	5.588	.500	114.91	122.53	126.09	134.04	141.94	12.70
MP-0156-36-***	36/72	5.460	5.762	5.906	6.219	6.540	.438	138.68	146.36	150.01	157.96	166.12	11.13
MP-0156-43-***	43/86	6.552	6.854	7.000	7.302	7.615	.500	166.42	174.09	177.80	185.47	193.42	12.70

NOTE: Add mounting and termination style digits to part number.  
\*.020 (0.51) Longer card slot available (modification 'E')

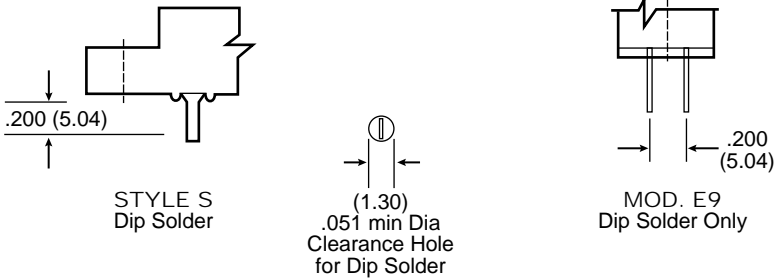
# Low Profile

.156 x .200 ROW

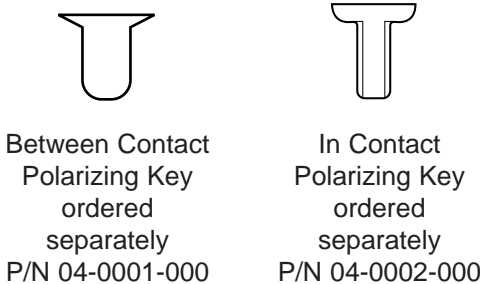
## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key



## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	INCHES						MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.008	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.20
MP-0156-02-***	2/4	.156	.476	.596	—	—	.320	3.96	12.09	15.14	—	—	8.13
MP-0156-03-***	3/6	.312	.632	.752	—	—	.320	7.93	16.06	19.10	—	—	8.13
MP-0156-06-***	6/12	7.80	1.200	1.220	1.533	1.860	.320	19.81	27.94	30.99	38.94	47.24	8.13
MP-0156-08-***	8/16	1.092	1.412	1.532	1.845	2.172	.320	27.74	35.87	38.91	46.86	55.17	8.13
MP-0156-10-***	10/20	1.404	1.724	1.844	2.157	2.484	.320	35.66	43.79	46.84	54.79	63.09	8.13
MP-0156-11-***	11/22	1.560	1.880	2.000	2.313	2.640	.320	39.62	47.75	50.80	58.75	67.06	8.13
MP-0156-12-***	12/24	1.716	2.036	2.156	2.469	2.796	.320	43.59	51.72	54.76	62.71	71.02	8.13
MP-0156-15-***	15/30	2.184	2.504	2.624	2.937	3.264	.320	55.47	63.60	66.65	74.60	82.91	8.13
MP-0156-18-***	18/36	2.652	2.972	3.092	3.405	3.732	.320	67.36	75.49	78.54	86.49	94.79	8.13
MP-0156-22-***	22/44	3.276	3.596	3.716	4.029	4.356	.320	83.21	91.34	95.39	102.34	110.65	8.13
MP-0156-24-***	24/48	3.588	3.908	4.028	4.341	4.668	.320	91.14	99.27	102.31	110.26	118.57	8.13
MP-0156-25-***	25/50	3.744	4.064	4.184	4.497	4.824	.320	95.10	103.23	106.27	114.22	122.53	8.13
MP-0156-28-***	28/56	4.212	4.532	4.652	4.965	5.276	.438	106.99	107.50	118.16	126.11	134.01	11.13
MP-0156-30-***	30/60	4.524	4.844	4.964	5.277	5.588	.500	114.91	123.04	126.09	134.04	141.94	12.70
MP-0156-36-***	36/72	5.460	5.782	5.906	6.219	6.540	.438	138.68	146.87	150.01	157.96	166.12	11.13
MP-0156-43-***	43/86	6.552	6.872	7.000	7.302	7.615	.500	166.42	174.60	177.80	185.47	193.42	12.70

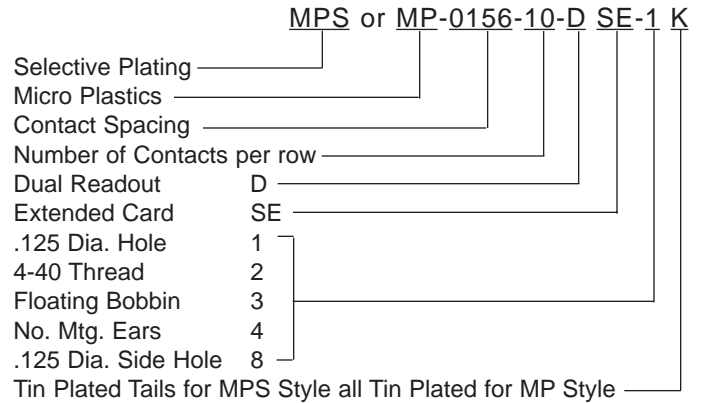
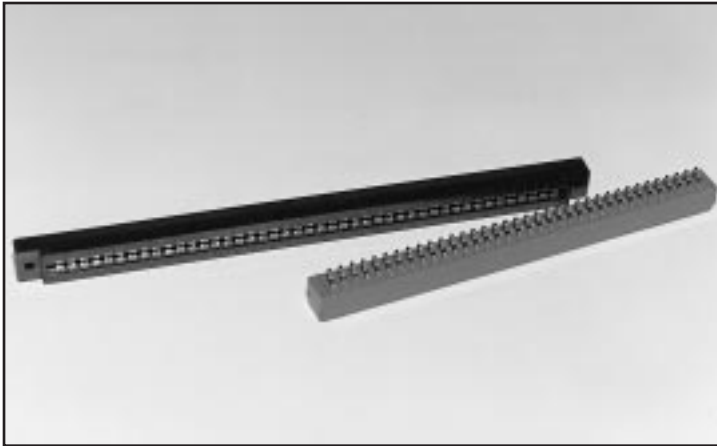
\*NOTE: Add mounting and termination style digits to part number.

# .156

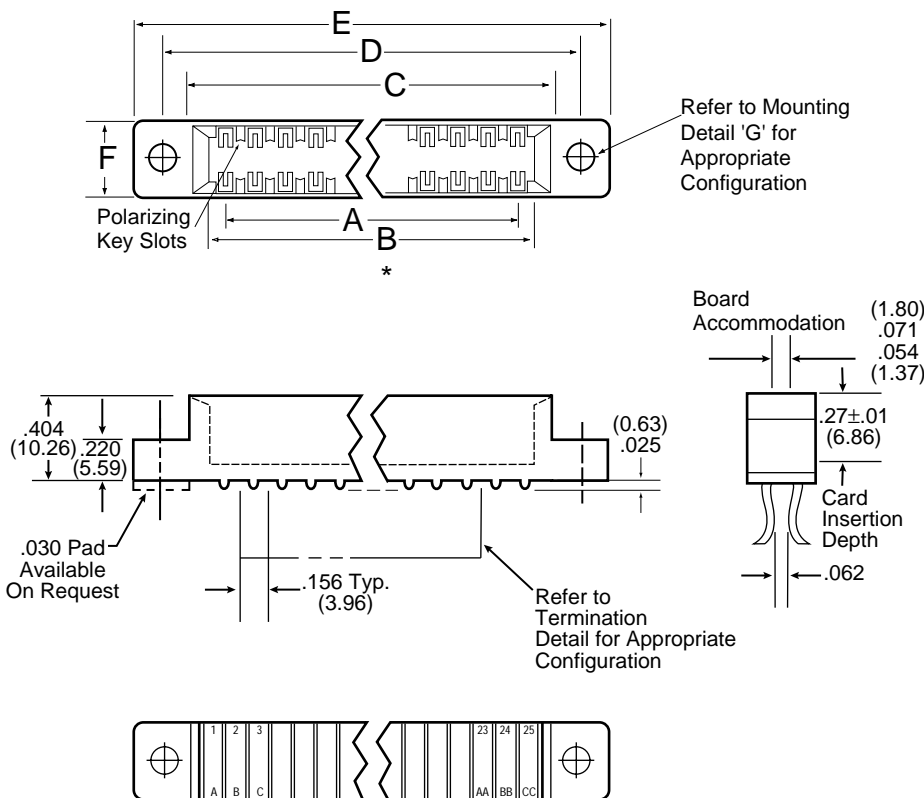
## Contact Centers Edgecard Connectors Dip Solder and Extended Card Style - Double Row

U.L. APPROVED E78000 (S)

### Part Number Description



### Dimensions



Note: 36/72 & 43/86 contact identification  
 Letters A, B, C . . .  $\bar{A}\bar{B}\bar{C}$  . . .  $\bar{R}$   
 Numbers 1, 2, 3 . . . . . 36

Note: Omit letters G, I, O, Q

### General Information

**CONTACT FORCES PER MIL-C-21097C**

**MATERIALS/FINISHES:**

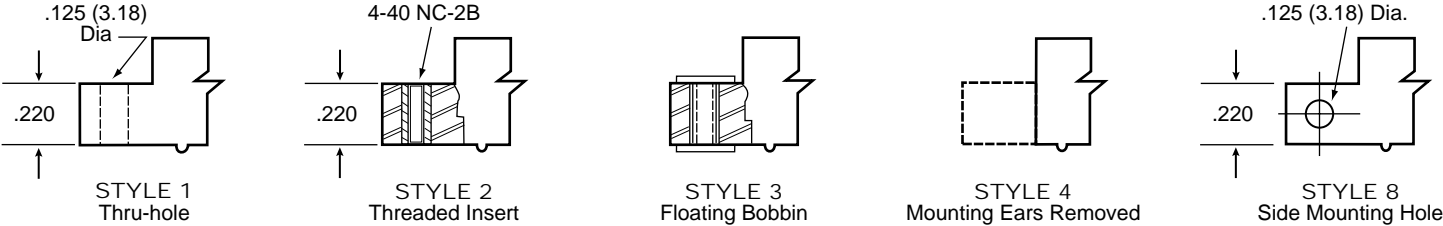
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)
- **Color:** Blue U.L. Approved\* Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Bifurcated full bellows style in phosphor bronze material. Beryllium copper and pfinodal materials available upon request for hi-temp applications.
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface. 'MPS' style is .000015 gold per MIL-G-45204 over nickel on bellows face only, tails are tin plated (must have Mod. Code 'K' with 'MPS' style).
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material and thickness available upon request.

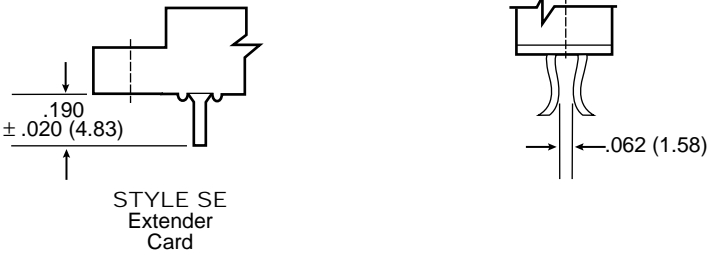
# Low Profile

.156 x .062 Row

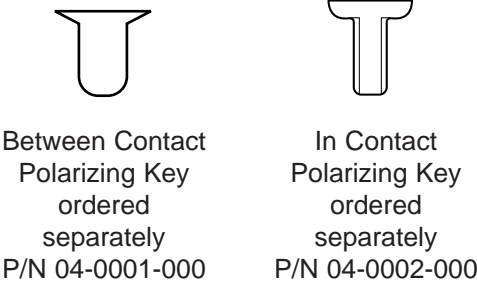
## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key



## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.010	E ±.020	F ±.006	A ±0.25	B ±0.38	C ±0.38	D ±0.25	E ±0.51	F ±0.38
MP-0156-02-DSE-*	2	.156	.456	.596	—	—	.320	3.96	11.58	15.14	—	—	8.13
MP-0156-03-DSE-*	3	.312	.612	.752	—	—	.320	7.93	15.55	19.10	—	—	8.13
MP-0156-06-DSE-*	6	.780	1.080	1.220	1.533	1.860	.320	19.81	27.43	30.99	38.94	47.24	8.13
MP-0156-08-DSE-*	8	1.092	1.392	1.532	1.845	2.172	.320	27.74	35.36	38.91	46.86	55.17	8.13
MP-0156-10-DSE-*	10	1.404	1.704	1.844	2.157	2.484	.320	35.66	43.28	46.84	54.79	63.09	8.13
MP-0156-11-DSE-*	11	1.560	1.860	2.000	2.313	2.640	.320	39.62	47.24	50.80	58.75	67.06	8.13
MP-0156-12-DSE-*	12	1.716	2.016	2.156	2.469	2.796	.320	43.59	51.21	54.76	62.71	71.02	8.13
MP-0156-15-DSE-*	15	2.184	2.484	2.624	2.937	3.264	.320	55.47	63.09	66.65	74.60	82.91	8.13
MP-0156-18-DSE-*	18	2.652	2.952	3.092	3.405	3.732	.320	67.36	74.98	78.54	86.49	94.79	8.13
MP-0156-22-DSE-*	22	3.276	3.576	3.716	4.029	4.356	.320	83.21	90.83	94.39	102.34	110.64	8.13
MP-0156-24-DSE-*	24	3.588	3.888	4.028	4.341	4.668	.320	91.14	98.76	102.31	110.26	118.57	8.13
MP-0156-25-DSE-*	25	3.744	4.044	4.184	4.497	4.824	.320	95.10	102.72	106.27	114.22	122.53	8.13
MP-0156-28-DSE-*	28	4.212	4.512	4.652	4.965	5.276	.438	106.99	114.61	118.16	126.11	134.01	11.13
MP-0156-30-DSE-*	30	4.524	4.824	4.964	5.277	5.588	.500	114.91	122.53	126.09	134.04	141.94	12.70
MP-0156-36-DSE-*	36	5.460	5.762	5.906	6.219	6.540	.438	138.68	146.36	150.01	157.96	166.12	11.13
MP-0156-43-DSE-*	43	6.552	6.854	7.000	7.302	7.615	.500	166.42	174.09	177.80	185.47	193.42	12.70

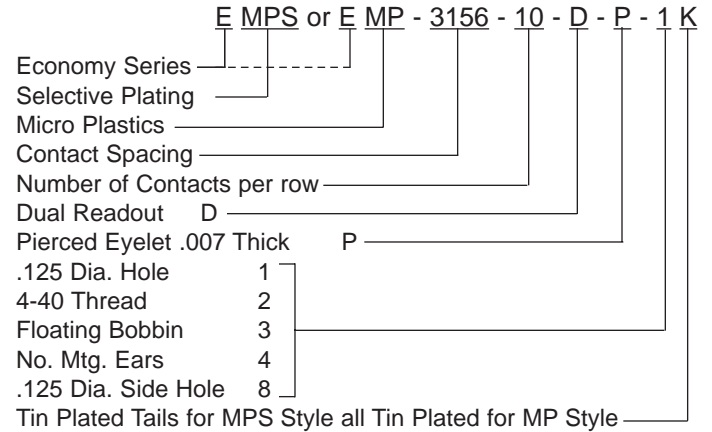
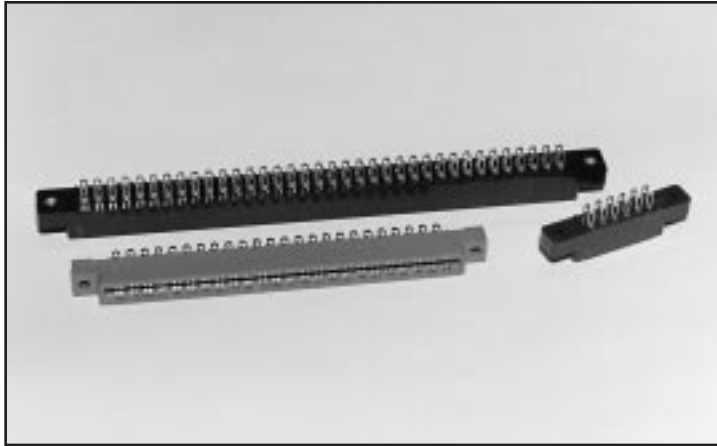
NOTE: Add mounting and termination style digits to part number.  
\*.020 (0.51) Longer card slot available (modification 'E')

# .156

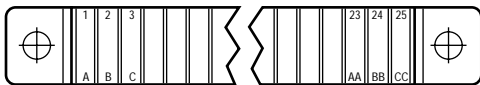
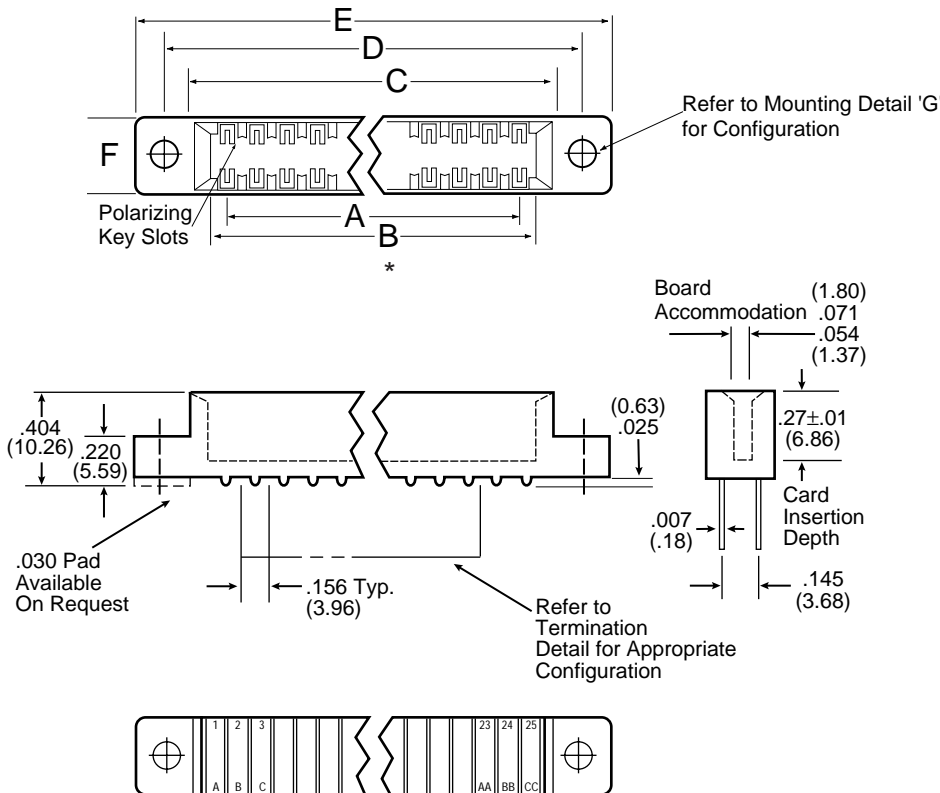
## Contact Centers Edgecard Connectors Economy Pierced Eyelet - Double Row

U.L. APPROVED E78000 (S)

### Part Number Description



### Dimensions



Note: 36/72 & 43/86 contact identification  
Letters A, B, C ... ABC ... R  
Numbers 1, 2, 3 ... 36

Note: Omit letters G, I, O, Q

### General Information

**CONTACT FORCES PER  
MIL-C-21097C**

#### MATERIALS/FINISHES:

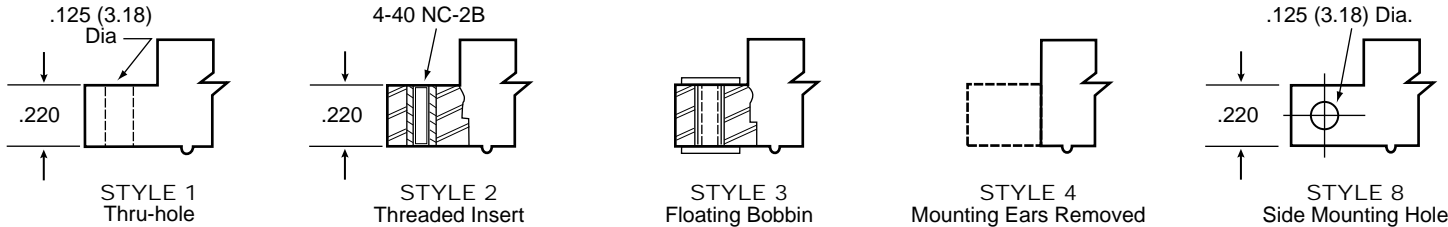
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)  
**Color:** Black U.L. Approved\* Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Bifurcated full bellows style in phosphor bronze material. Beryllium copper and pfinodal materials available upon request for hi-temp applications.
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface. 'MPS' style is .000010 to .000015 gold per MIL-G-45204 over nickel on bellows face only, tails are tin plated (must have Mod. Code 'K' with 'MPS' style).
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material and thickness available upon request.

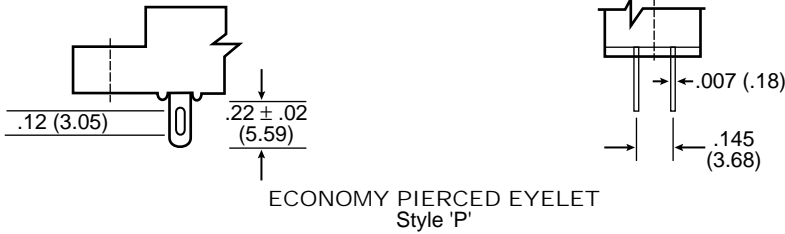
# Low Profile

.156 x .145 ROW

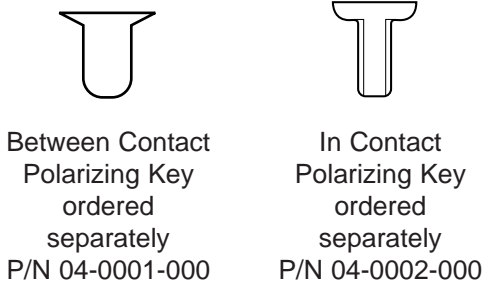
## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key



## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.010	E ±.020	F ±.006	A ±0.25	B ±0.25	C ±0.38	D ±0.25	E ±0.51	F ±0.38
EMP-0156-02-**-*	2/4	.156	.456	.596	—	—	.320	3.96	11.58	15.14	—	—	8.13
EMP-0156-03-**-*	3/6	.312	.612	.752	—	—	.320	7.93	15.55	19.10	—	—	8.13
EMP-0156-06-**-*	6/12	.780	1.080	1.220	1.533	1.860	.320	19.81	27.43	30.99	38.94	47.24	8.13
EMP-0156-08-**-*	8/16	1.092	1.392	1.532	1.845	2.172	.320	27.74	35.36	38.91	46.86	55.17	8.13
EMP-0156-10-**-*	10/20	1.404	1.704	1.844	2.157	2.484	.320	35.66	43.28	46.84	54.79	63.09	8.13
EMP-0156-11-**-*	11/22	1.560	1.860	2.000	2.313	2.640	.320	39.62	47.24	50.80	58.75	67.06	8.13
EMP-0156-12-**-*	12/24	1.716	2.016	2.156	2.469	2.796	.320	43.59	51.21	54.76	62.71	71.02	8.13
EMP-0156-15-**-*	15/30	2.184	2.484	2.624	2.937	3.264	.320	55.47	63.09	66.65	74.60	82.91	8.13
EMP-0156-18-**-*	18/36	2.652	2.952	3.092	3.405	3.732	.320	67.36	74.98	78.54	86.49	94.79	8.13
EMP-0156-22-**-*	22/44	3.276	3.576	3.716	4.029	4.356	.320	83.21	90.83	94.39	102.34	110.64	8.13
EMP-0156-24-**-*	24/48	3.588	3.888	4.028	4.341	4.668	.320	91.14	98.76	102.31	110.26	118.57	8.13
EMP-0156-25-**-*	25/50	3.744	4.044	4.184	4.497	4.824	.320	95.10	102.72	106.27	114.22	122.53	8.13
EMP-0156-28-**-*	28/56	4.212	4.512	4.652	4.965	5.276	.438	106.99	114.61	118.16	126.11	134.01	11.13
EMP-0156-30-**-*	30/60	4.524	4.824	4.964	5.277	5.588	.500	114.91	122.53	126.09	134.04	141.94	12.70
EMP-0156-36-**-*	36/72	5.460	5.762	5.906	6.219	6.540	.438	138.68	146.36	150.01	157.96	166.12	11.13
EMP-0156-43-**-*	43/86	6.552	6.854	7.000	7.302	7.615	.500	166.42	174.09	177.80	185.47	193.42	12.70

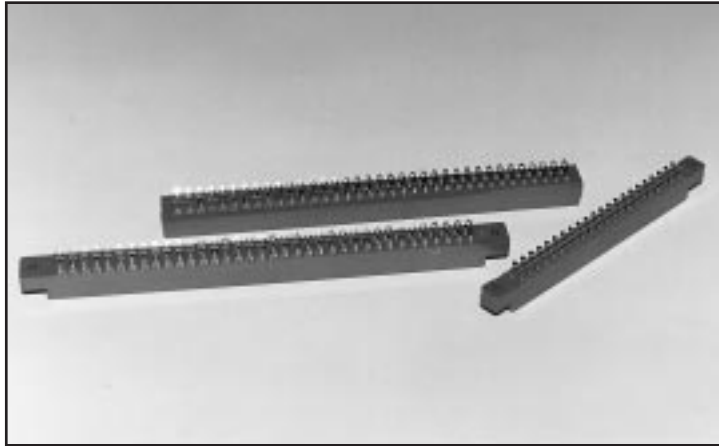
NOTE: Add mounting and termination style digits to part number.  
 \*.020 (0.51) Longer card slot available (modification 'E')

# .156

## Contact Centers Edgecard Connectors Economy Pierced Eyelet - Double Row Extended Card Style

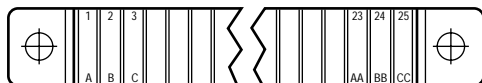
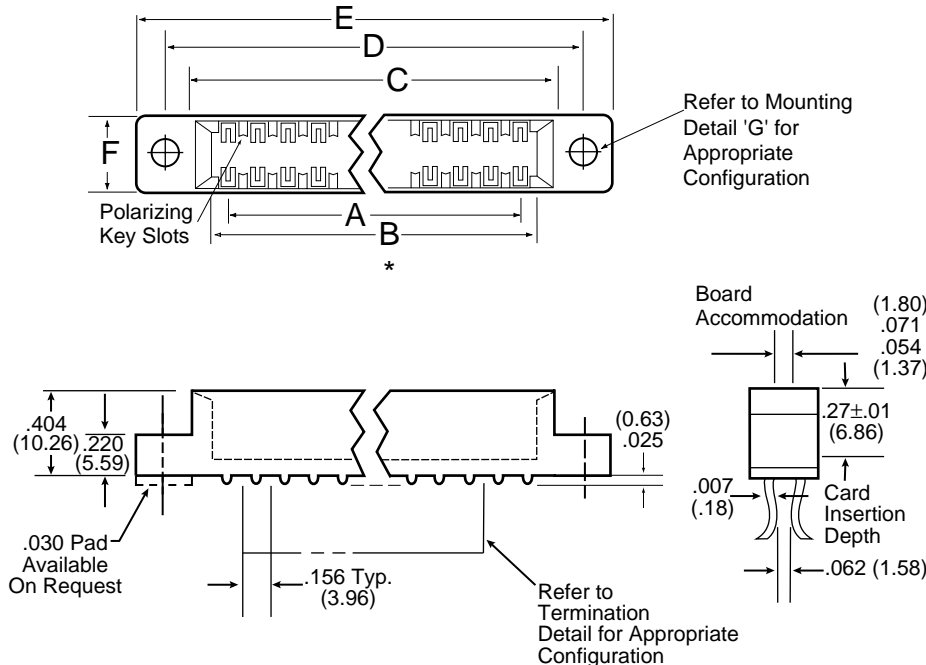
U.L. APPROVED E78000 (S)

### Part Number Description



Economy Series	E	MPS or E	MP	- 3156	- 10	- D	- PE	- 1	K
Selective Plating	-----								
Micro Plastics									
Contact Spacing									
Number of Contacts per row									
Dual Readout						D			
Pierced Eyelet .007 Thick - .062 Row Extended Card PE									
.125 Dia. Hole								1	
4-40 Thread								2	
Floating Bobbin								3	
No. Mtg. Ears								4	
.125 Dia. Side Hole								8	
Tin Plated Tails for MPS Style all Tin Plated for MP Style									

### Dimensions



Note: 36/72 & 43/86 contact identification  
Letters A, B, C . . . ABC . . . R  
Numers 1, 2, 3 . . . . . 36

Note: Omit letters G, I, O, Q

### General Information

**CONTACT FORCES PER MIL-C-21097C**

#### MATERIALS/FINISHES:

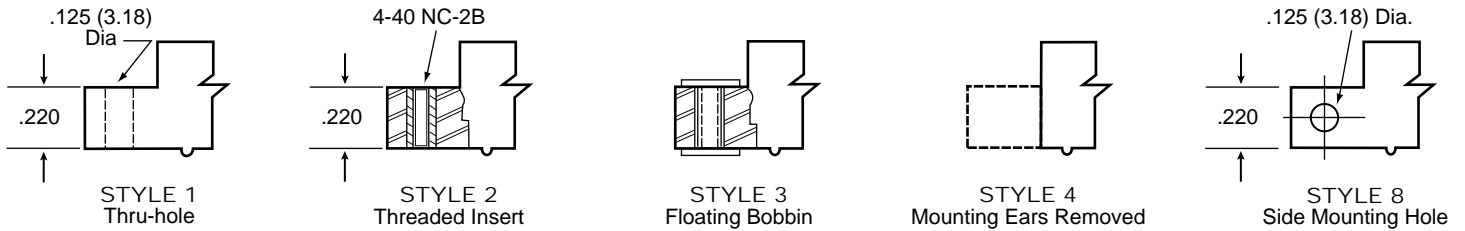
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)  
**Color:** Blue U.L. Approved\* Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Bifurcated full bellows style in phosphor bronze material. Beryllium copper and pfinodal materials available upon request for hi-temp applications.
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface. 'MPS' style is .000015 gold per MIL-G-45204 over nickel on bellows face only, tails are tin plated (must have Mod. Code 'K' with 'MPS' style).
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material and thickness available upon request.

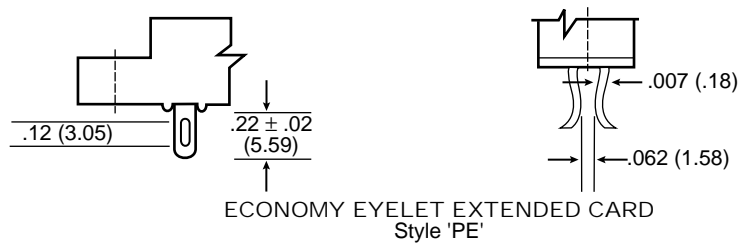
# Low Profile

.156 x .062 Row

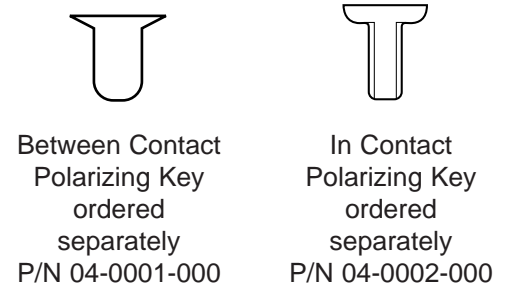
Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key



## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.010	E ±.020	F ±.006	A ±0.25	B ±0.25	C ±0.38	D ±0.25	E ±0.51	F ±0.38
EMP-0156-02-DPE-*	2	.156	.456	.596	—	—	.320	3.96	11.58	15.14	—	—	8.13
EMP-0156-03-DPE-*	3	.312	.612	.752	—	—	.320	7.93	15.55	19.10	—	—	8.13
EMP-0156-06-DPE-*	6	.780	1.080	1.220	1.533	1.860	.320	19.81	27.43	30.99	38.94	47.24	8.13
EMP-0156-08-DPE-*	8	1.092	1.392	1.532	1.845	2.172	.320	27.74	35.36	38.91	46.86	55.17	8.13
EMP-0156-10-DPE-*	10	1.404	1.704	1.844	2.157	2.484	.320	35.66	43.28	46.84	54.79	63.09	8.13
EMP-0156-11-DPE-*	11	1.560	1.860	2.000	2.313	2.640	.320	39.62	47.24	50.80	58.75	67.06	8.13
EMP-0156-12-DPE-*	12	1.716	2.016	2.156	2.469	2.796	.320	43.59	51.21	54.76	62.71	71.02	8.13
EMP-0156-15-DPE-*	15	2.184	2.484	2.624	2.937	3.264	.320	55.47	63.09	66.65	74.60	82.91	8.13
EMP-0156-18-DPE-*	18	2.652	2.952	3.092	3.405	3.732	.320	67.36	74.98	78.54	86.49	94.79	8.13
EMP-0156-22-DPE-*	22	3.276	3.576	3.716	4.029	4.356	.320	83.21	90.83	94.39	102.34	110.64	8.13
EMP-0156-24-DPE-*	24	3.588	3.888	4.028	4.341	4.668	.320	91.14	98.76	102.31	110.26	118.57	8.13
EMP-0156-25-DPE-*	25	3.744	4.044	4.184	4.497	4.824	.320	95.10	102.72	106.27	114.22	122.53	8.13
EMP-0156-28-DPE-*	28	4.212	4.512	4.652	4.965	5.276	.438	106.99	114.61	118.16	126.11	134.01	11.13
EMP-0156-30-DPE-*	30	4.524	4.824	4.964	5.277	5.588	.500	114.91	122.53	126.09	134.04	141.94	12.70
EMP-0156-36-DPE-*	36	5.460	5.762	5.906	6.219	6.540	.438	138.68	146.36	150.01	157.96	166.12	11.13
EMP-0156-43-DPE-*	43	6.552	6.854	7.000	7.302	7.615	.500	166.42	174.09	177.80	185.47	193.42	12.70

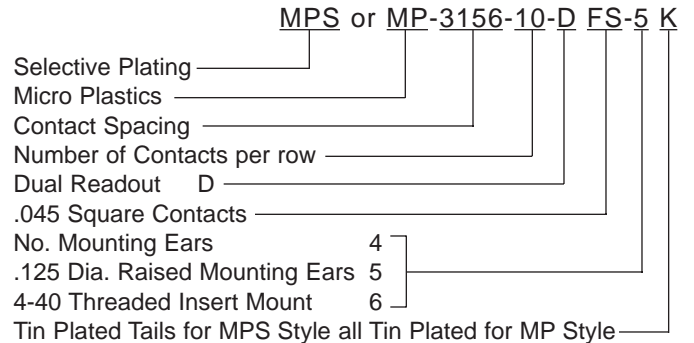
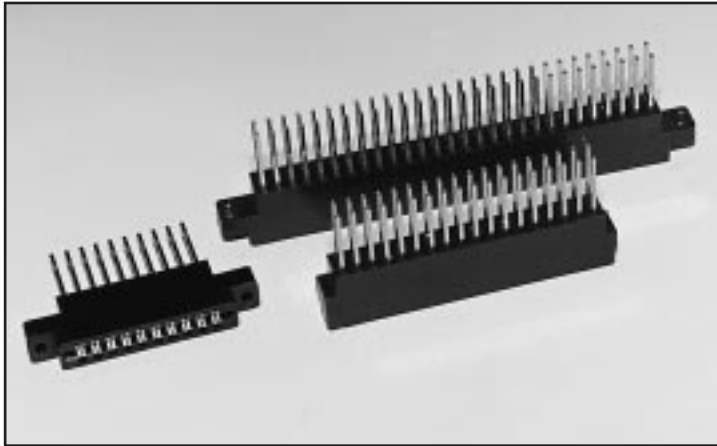
NOTE: Add mounting and termination style digits to part number.  
\* .020 (0.51) Longer card slot available (modification 'E')

# .156

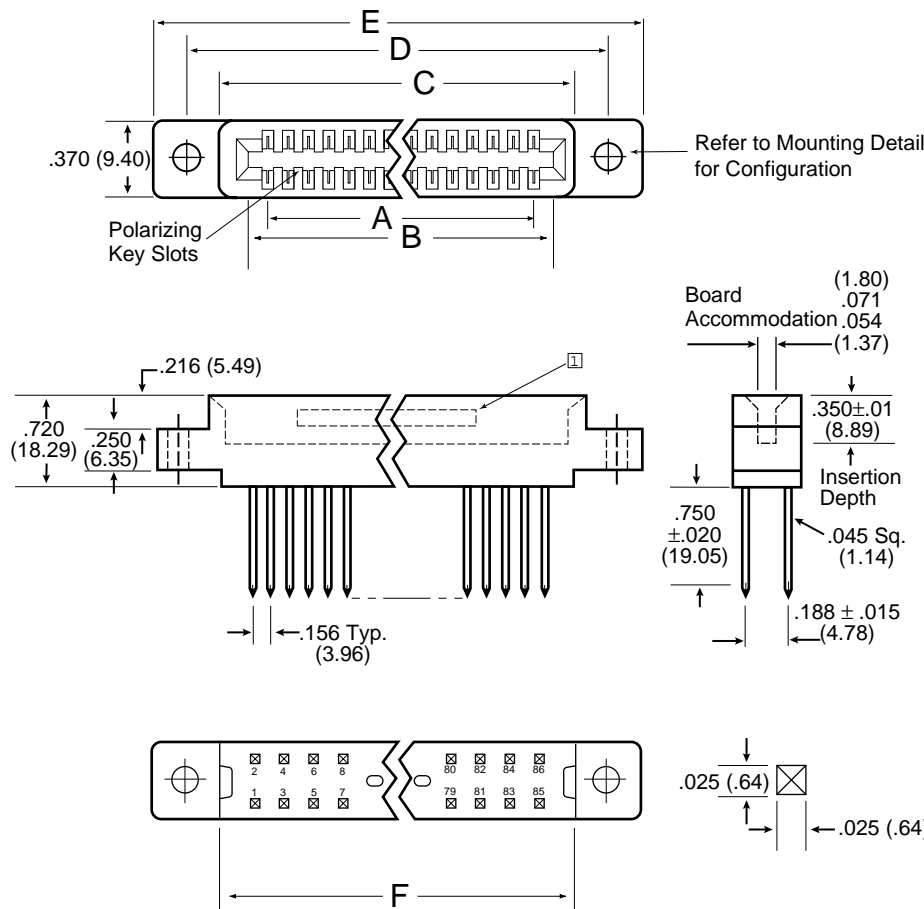
## Contact Centers Edgecard Connectors .045 Square Wire Wrap Contacts

U.L. APPROVED E78000 (S)

### Part Number Description



### Dimensions



### General Information

**CONTACT FORCES PER MIL-C-21097C**

**MATERIALS/FINISHES:**

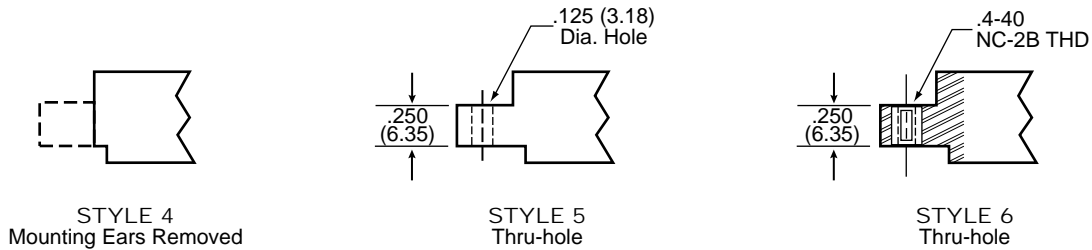
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)
- **Color:** Black (Blue or Green available upon request)
- **Keys:** Nylon, **Color:** White
- **Contacts:** Phosphor Bronze
- **Contact Finishes:** (MP Version) .000010 gold per MIL-G-45204 type II over nickel (MPS Version) CA 725 copper alloy .000010 to .000015 gold inlay; (Western Electric Type 1) over .000030 nickel on bellows face only. Tails are tin/lead plated.
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material, thickness and sizes available upon request.

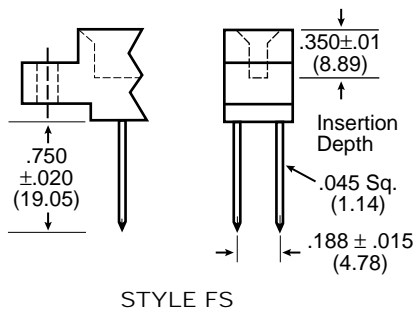
# High Profile

.156 x .188 ROW

## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key (Between Contact Positions)

Polarizing Key  
ordered separately  
P/N 04-0004-000



## Part Numbers/Dimensions

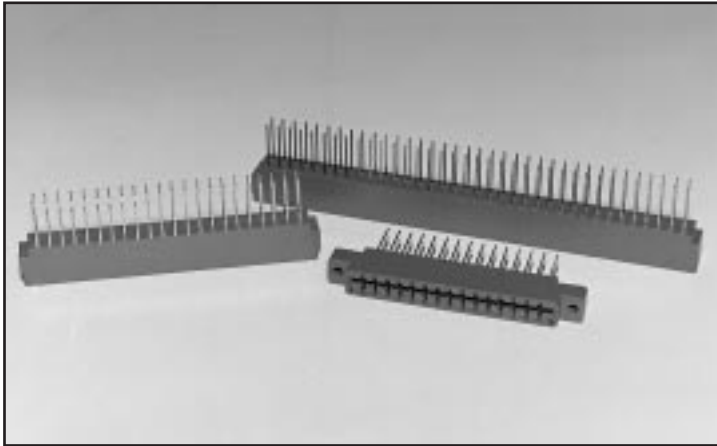
PART NUMBER	NO. OF CONT.	* INCHES						* MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.015	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.25
MP-3156-10-DFS-*	10/20	1.404	1.724	1.845	2.158	2.408	1.604	35.66	43.79	46.86	54.81	61.16	40.74
MP-3156-12-DFS-*	12/24	1.716	2.038	2.157	2.470	2.720	1.916	43.59	51.77	54.79	62.74	69.09	48.67
MP-3156-15-DFS-*	15/30	2.184	2.506	2.625	2.938	3.188	2.384	55.47	63.65	66.68	74.63	80.98	60.55
MP-3156-18-DFS-*	18/36	2.652	2.974	3.093	3.406	3.656	2.852	67.36	75.54	78.56	86.51	92.86	72.44
MP-3156-22-DFS-*	22/44	3.276	3.598	3.717	4.030	4.280	3.476	83.21	91.39	94.41	102.36	108.71	88.29
MP-3156-25-DFS-*	25/50	3.744	4.064	4.188	4.498	4.748	3.944	95.10	103.23	106.38	114.25	120.60	100.18
MP-3156-28-DFS-*	28/56	4.212	4.534	4.653	4.966	5.216	4.412	106.98	115.16	118.19	126.14	132.49	112.07
MP-3156-30-DFS-*	30/60	4.524	4.844	4.968	5.278	5.528	4.724	114.91	123.04	126.19	134.06	140.41	119.99
MP-3156-31-DFS-*	31/62	4.680	5.000	5.124	5.434	5.684	4.880	118.87	127.00	130.15	138.02	144.37	123.95
MP-3156-36-DFS-*	36/72	5.460	5.782	5.901	6.214	6.464	5.660	138.68	146.86	149.89	160.38	164.19	143.76
MP-3156-43-DFS-*	43/86	6.552	6.874	6.993	7.306	7.556	6.752	166.42	174.60	177.62	185.57	189.20	171.50

# .156

## Contact Centers Edgecard Connectors .025 Long Wire Wrap Contacts

U.L. APPROVED E78000 (S)

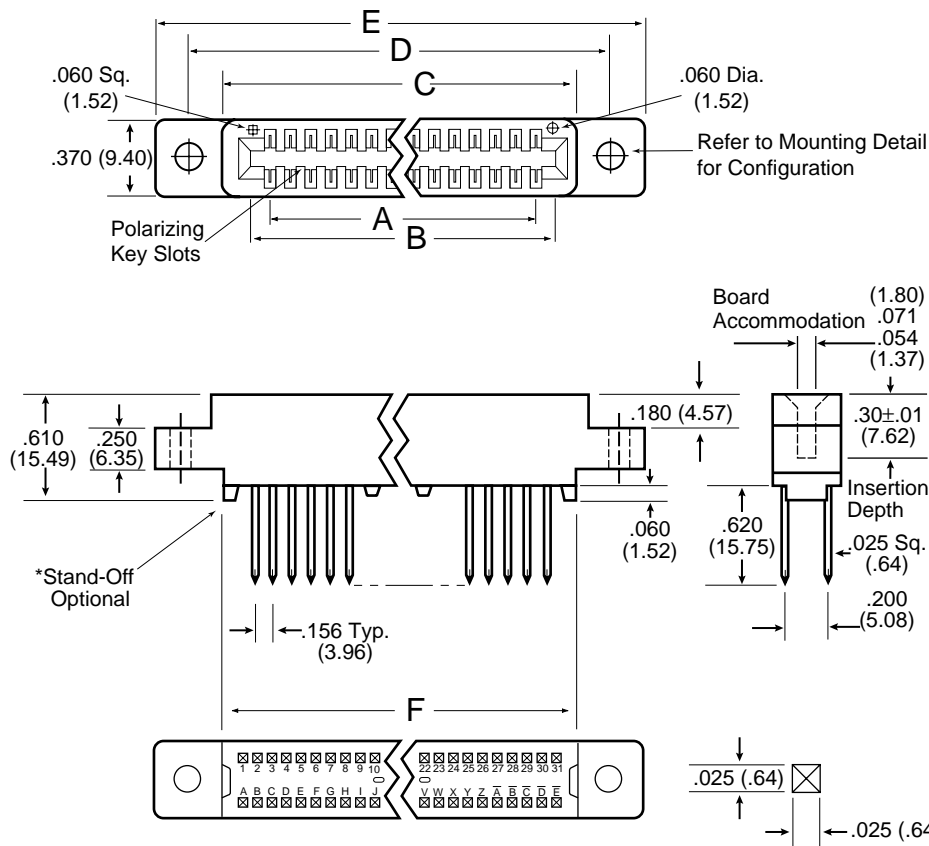
### Part Number Description



	MPS or MP	-	0156	-	10	-	D	W	-	5	K	Z
Selective Gold Plating												
Micro Plastics												
Contact Spacing												
Number of Contacts per row												
Dual Readout							D					
.025 Square Contacts												
.125 Flush Mounting Holes										1		
4-40 Flush Threaded Inserts										2		
No. Mounting Ears										4		
.125 Dia. Raised Mounting Ears										5		
4-40 Thread Insert Mount										6		
Tin Plated Tails for MPS Style all Tin Plated for MP Style												
With Stand-Off												

\* For No Stand-Off – Do Not Use Mod. Code 'Z'

### Dimensions



### General Information

#### CONTACT FORCES PER MIL-C-21097C

#### MATERIALS/FINISHES:

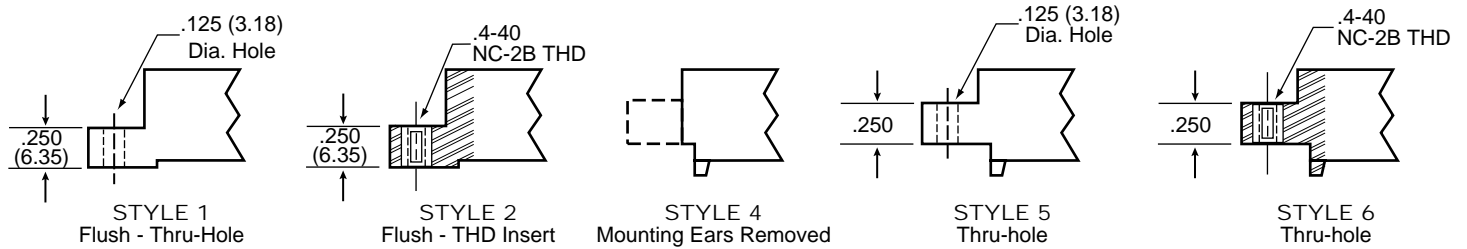
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)  
**Color:** Blue U.L. Approved\*  
Ryton R-4 available upon request for Hi-Temp Applications.
- **Keys:** Nylon, **Color:** White
- **Contacts:** Phosphor Bronze
- **Contact Finishes:** 'MP' style is .000010 gold per MIL-G-45204 over nickel covering entire contact surface. 'MPS' style is CA 725 copper alloy. .000010 to .000015 gold (Western Electric Type 1) over .000030 nickel on bellows face only, tails are tin/lead plated.
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material thickness and sizes available upon request.

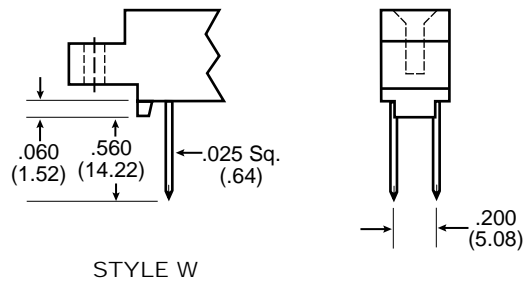
# High Profile

.156 x .200 ROW

## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



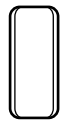
## Termination Styles-Detail H



STYLE W

## Polarizing Key (Between Contact Positions)

Polarizing Key  
ordered separately  
P/N 04-0004-000



## Part Numbers/Dimensions

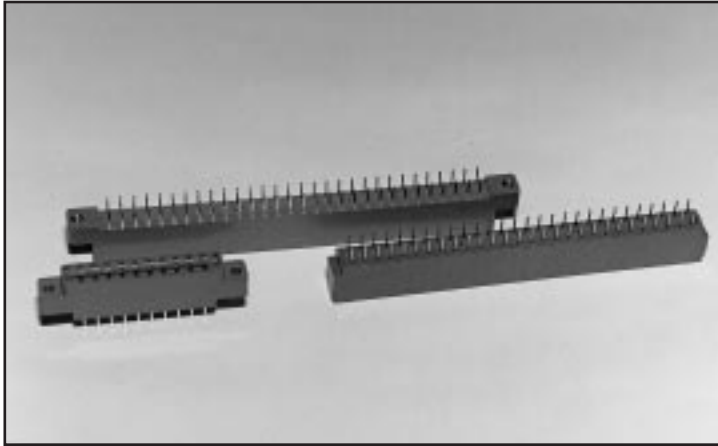
PART NUMBER	NO. OF CONT.	** INCHES						** MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.015	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.20
MP-0156-06-DW-*	6/12	.780	1.082	1.221	1.534	1.782	1.030	19.81	27.48	31.01	38.96	45.26	26.62
MP-0156-10-DW-*	10/20	1.404	1.706	1.845	2.158	2.406	1.654	35.66	43.33	46.86	54.81	61.11	42.01
MP-0156-12-DW-*	12/24	1.716	2.018	2.157	2.470	2.718	1.966	43.59	51.26	54.79	62.74	69.04	49.94
MP-0156-15-DW-*	15/30	2.184	2.486	2.625	2.938	3.187	2.434	55.47	63.14	66.68	74.63	80.95	61.82
MP-0156-18-DW-*	18/36	2.652	2.954	3.093	3.406	3.656	2.902	67.36	75.03	78.56	86.51	92.86	73.71
MP-0156-22-DW-*	22/44	3.276	3.578	3.717	4.030	4.330	3.526	83.21	90.88	94.41	102.36	109.98	89.56
MP-0156-24-DW-*	24/48	3.588	3.890	4.029	4.342	4.642	3.838	91.14	98.81	102.34	110.29	117.91	97.49
MP-0156-25-DW-*	25/50	3.744	4.046	4.185	4.492	4.798	3.994	95.10	102.77	106.30	114.10	121.87	101.45
MP-0156-28-DW-*	28/56	4.212	4.514	4.653	4.966	5.216	4.462	106.98	114.66	118.19	126.14	132.49	113.34
MP-0156-30-DW-*	30/60	4.524	4.826	4.965	5.278	5.528	4.774	114.91	122.58	126.11	134.06	140.41	121.26
MP-0156-31-DW-*	31/62	4.680	4.982	5.121	5.434	5.684	4.930	118.87	126.54	130.07	138.02	144.37	125.22
MP-0156-36-DW-*	36/72	5.460	5.762	5.901	6.214	6.464	5.710	138.68	146.36	149.89	157.84	164.19	145.03
MP-0156-40-DW-*	40/80	6.084	6.386	6.525	6.838	7.088	6.334	154.53	162.20	165.74	173.69	180.04	160.88
MP-0156-43-DW-*	43/86	6.552	6.854	6.993	7.306	7.556	6.802	166.42	174.09	177.62	185.57	191.92	172.77

\*NOTE: Add mounting and termination style digits to part number.  
\*\* .020 longer card slot available (MOD. 'E')

# .156

## Contact Centers Edgecard Connectors .025 Short Square Contacts

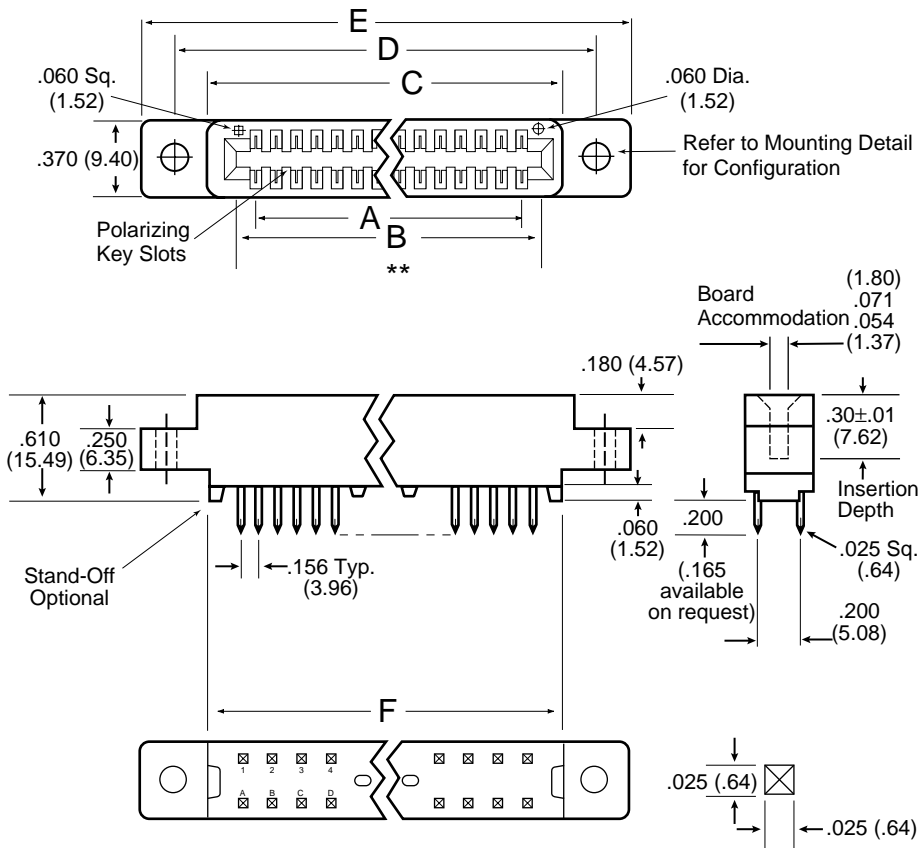
U.L. APPROVED E78000 (S)



### Part Number Description

	MPS or MP	- 0156-	10 -	D	W -	4	H	K	Z
Selective Plating	_____	_____	_____	_____	_____	_____	_____	_____	_____
Micro Plastics	_____	_____	_____	_____	_____	_____	_____	_____	_____
Contact Spacing	_____	_____	_____	_____	_____	_____	_____	_____	_____
Number of Contacts per row	_____	_____	_____	_____	_____	_____	_____	_____	_____
Dual Readout	D	_____	_____	_____	_____	_____	_____	_____	_____
.025 Square Contacts	_____	_____	_____	_____	_____	_____	_____	_____	_____
.125 Flush Mounting Holes	1	_____	_____	_____	_____	_____	_____	_____	_____
4-40 Flush Threaded Inserts	2	_____	_____	_____	_____	_____	_____	_____	_____
No. Mounting Ears	4	_____	_____	_____	_____	_____	_____	_____	_____
.125 Dia. Raised Mounting Ears	5	_____	_____	_____	_____	_____	_____	_____	_____
4-40 Threaded Insert Mount	6	_____	_____	_____	_____	_____	_____	_____	_____
Short .025 Square Wire Wrap Contacts	_____	_____	_____	_____	_____	_____	_____	_____	_____
(.165 Long Available - Mod. Code H (165) - on Request)									
Tin Plated Tails for MPS Style, all Tin Plated for MP Style	_____	_____	_____	_____	_____	_____	_____	_____	_____
With Stand-Off	_____	_____	_____	_____	_____	_____	_____	_____	_____
* For No Stand-Off – Do Not Use Mod. Code 'Z'									

### Dimensions



### General Information

**CONTACT FORCES PER  
MIL-C-21097C**

#### MATERIALS/FINISHES:

- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)
- **Color:** Blue (Black or Green available upon request)
- **Keys:** Nylon, **Color:** White
- **Contacts:** Phosphor Bronze
- **Contact Finishes:** (MP Version) .000010 gold per MIL-G-45204 type II over nickel (MPS Version) CA 725 copper alloy .000010 to .000015 gold; (Western Electric Type 1) over .000030 nickel on bellows face only. Tails are tin/lead plated.
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material, thickness and sizes available upon request.

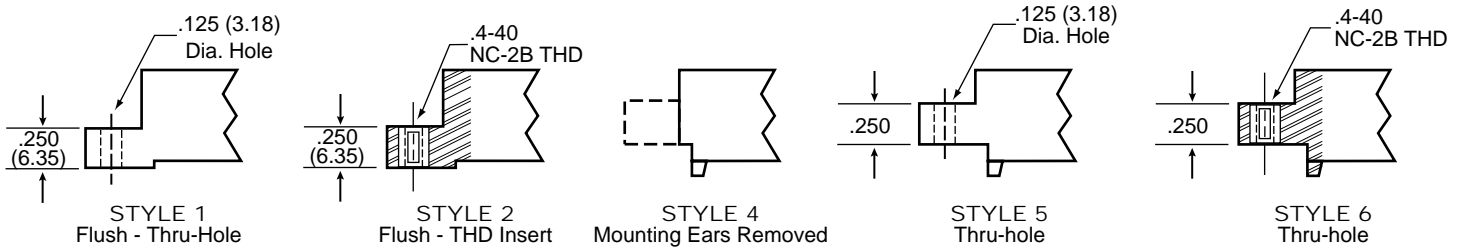
#### Contact Identification

for 10 thru 31 size                      for 36, 40 and 43 size  
Numbers: 1, 2, 3 ... 31                  Letters: A, B, C, ... Z, A, B, C, ...  
Letters: A, B, C, ... Z, A, B, C, ...      Numbers: 1, 2, 3 ... 43

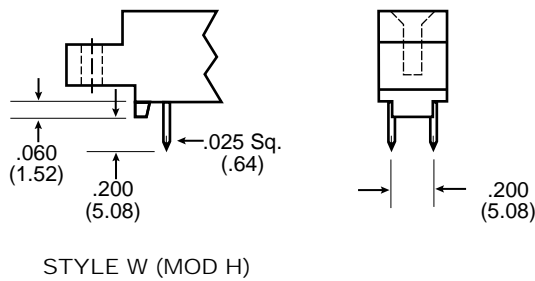
# High Profile

.156 x .200 ROW

## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key (Between Contact Positions)

Polarizing Key  
ordered separately  
P/N 04-0004-000



## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	** INCHES						** MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.015	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.20
MP-0156-06-DW-*	6/12	.780	1.082	1.221	1.534	1.782	1.030	19.81	27.48	31.01	38.96	45.26	26.62
MP-0156-10-DW-*	10/20	1.404	1.706	1.845	2.158	2.406	1.654	35.66	43.33	46.86	54.81	61.11	42.01
MP-0156-12-DW-*	12/24	1.716	2.018	2.157	2.470	2.718	1.966	43.59	51.26	54.79	62.74	69.04	49.94
MP-0156-15-DW-*	15/30	2.184	2.486	2.625	2.938	3.187	2.434	55.47	63.14	66.68	74.63	80.95	61.82
MP-0156-18-DW-*	18/36	2.652	2.954	3.093	3.406	3.656	2.902	67.36	75.03	78.56	86.51	92.86	73.71
MP-0156-22-DW-*	22/44	3.276	3.578	3.717	4.030	4.330	3.526	83.21	90.88	94.41	102.36	109.98	89.56
MP-0156-24-DW-*	24/48	3.588	3.890	4.029	4.342	4.642	3.838	91.14	98.81	102.34	110.29	117.91	97.49
MP-0156-25-DW-*	25/50	3.744	4.046	4.185	4.492	4.798	3.994	95.10	102.77	106.30	114.10	121.87	101.45
MP-0156-28-DW-*	28/56	4.212	4.514	4.653	4.966	5.216	4.462	106.98	114.66	118.19	126.14	132.49	113.34
MP-0156-30-DW-*	30/60	4.524	4.826	4.965	5.278	5.528	4.774	114.91	122.58	126.11	134.06	140.41	121.26
MP-0156-31-DW-*	31/62	4.680	4.982	5.121	5.434	5.684	4.930	118.87	126.54	130.07	138.02	144.37	125.22
MP-0156-36-DW-*	36/72	5.460	5.762	5.901	6.214	6.464	5.710	138.68	146.36	149.89	157.84	164.19	145.03
MP-0156-40-DW-*	40/80	6.084	6.386	6.525	6.838	7.088	6.334	154.53	162.20	165.74	173.69	180.04	160.88
MP-0156-43-DW-*	43/86	6.552	6.854	6.993	7.306	7.556	6.802	166.42	174.09	177.62	185.57	191.92	172.77

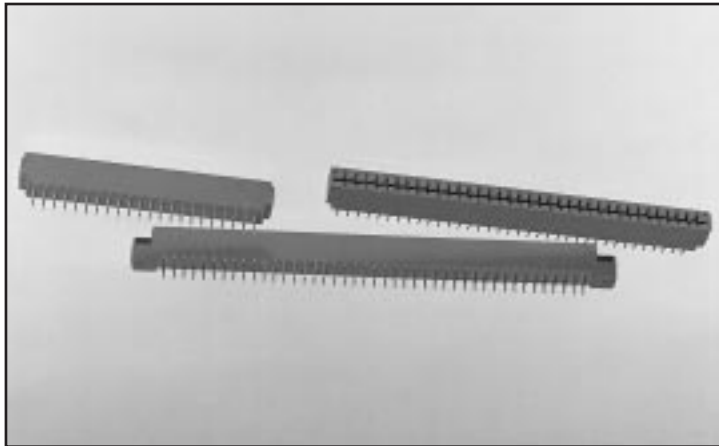
\*NOTE: Add mounting and termination style digits to part number.  
\*\* .020 longer card slot available (MOD. 'E')

# .156

## Contact Centers Edgecard Connectors .026 Short Round Contacts

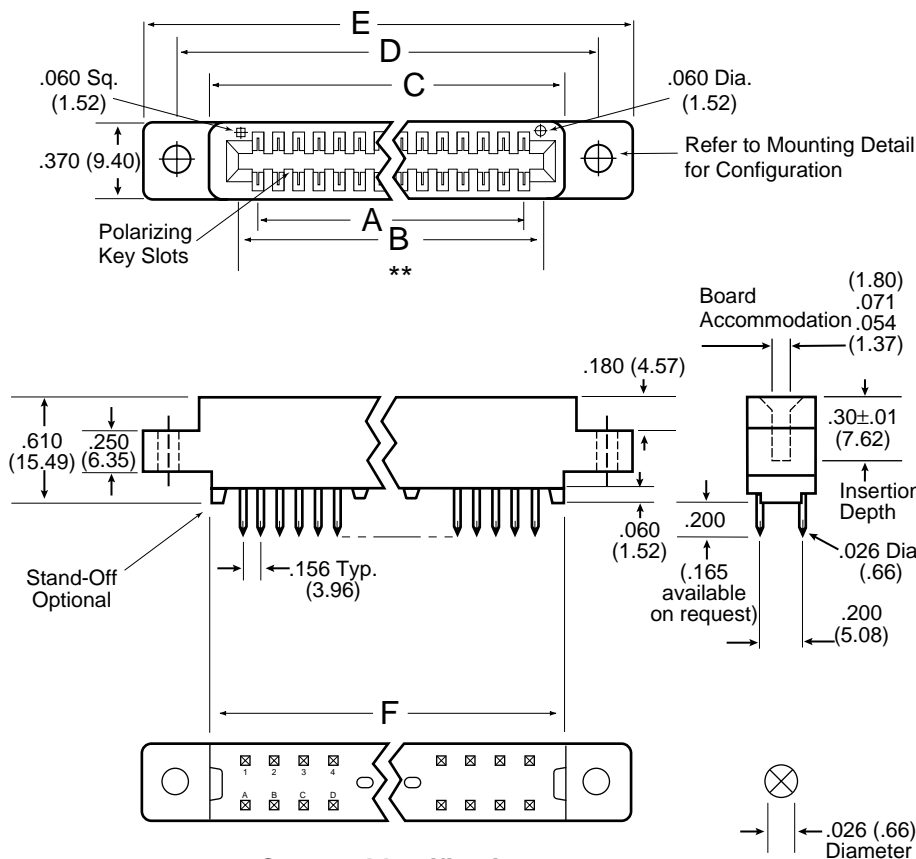
U.L. APPROVED E78000 (S)

### Part Number Description



	MPS or MP	- 0156-	10 -	D	R -	4	H	K	Z
Selective Plating	_____	_____	_____	_____	_____	_____	_____	_____	_____
Micro Plastics	_____	_____	_____	_____	_____	_____	_____	_____	_____
Contact Spacing	_____	_____	_____	_____	_____	_____	_____	_____	_____
Number of Contacts per row	_____	_____	_____	_____	_____	_____	_____	_____	_____
Dual Readout	D _____	_____	_____	_____	_____	_____	_____	_____	_____
.026 Round Contacts	_____	_____	_____	_____	_____	_____	_____	_____	_____
.125 Flush Mounting Holes	_____	_____	_____	_____	_____	1	_____	_____	_____
4-40 Flush Threaded Inserts	_____	_____	_____	_____	_____	2	_____	_____	_____
No. Mounting Ears	_____	_____	_____	_____	_____	4	_____	_____	_____
.125 Dia. Raised Mounting Ears	_____	_____	_____	_____	_____	5	_____	_____	_____
4-40 Threaded Insert Mount	_____	_____	_____	_____	_____	6	_____	_____	_____
Short .026 Round Contacts	_____	_____	_____	_____	_____	_____	_____	_____	_____
(.165 Long Available - Mod. Code H (165) - on Request)									
Tin Plated Tails for MPS Style, all Tin Plated for MP Style	_____	_____	_____	_____	_____	_____	_____	_____	_____
With Stand-Off	_____	_____	_____	_____	_____	_____	_____	_____	_____
* For No Stand-Off – Do Not Use Mod. Code 'Z'									

### Dimensions



#### Contact Identification

for 10 thru 31 size      for 36, 40 and 43 size  
 Numbers: 1, 2, 3 ... 31      Letters: A, B, C, ... Z, A, B, C, ...  
 Letters: A, B, C, ... Z, A, B, C, ...      Numbers: 1, 2, 3 ... 43

### General Information

#### CONTACT FORCES PER MIL-C-21097C

#### MATERIALS/FINISHES:

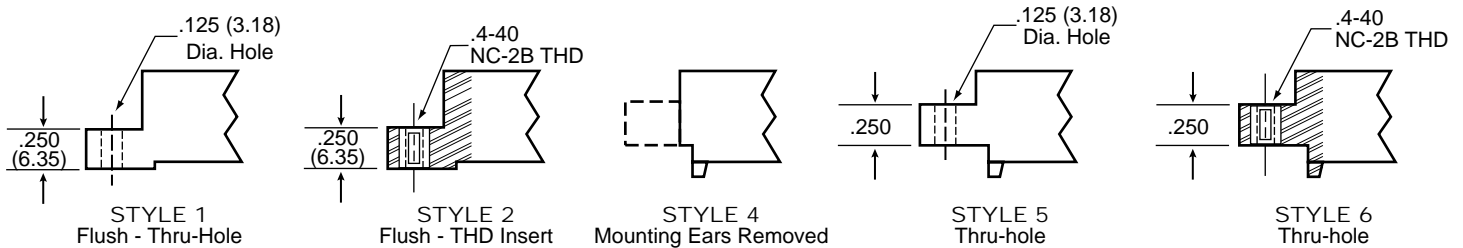
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)
- **Color:** Blue (Black or Green available upon request)
- **Keys:** Nylon, **Color:** White
- **Contacts:** Phosphor Bronze
- **Contact Finishes:** (MP Version) .000010 gold per MIL-G-45204 type II over nickel (MPS Version) CA 725 copper alloy .000010 to .000015 gold; (Western Electric Type 1) over .000030 nickel on bellows face only. Tails are tin/lead plated.
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material, thickness and sizes available upon request.

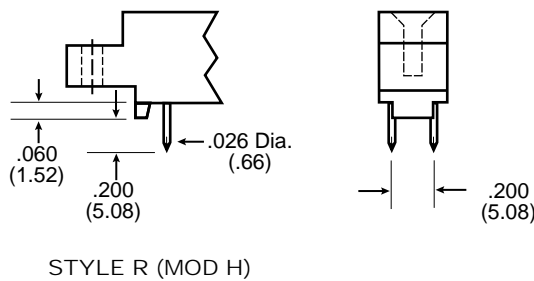
# High Profile

.156 x .200 ROW

## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key (Between Contact Positions)

Polarizing Key  
ordered separately  
P/N 04-0004-000

## Part Numbers/Dimensions

PART NUMBER	NO. OF CONT.	** INCHES						** MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.015	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.20
MP-0156-06-DR-*	6/12	.780	1.082	1.221	1.534	1.782	1.030	19.81	27.48	31.01	38.96	45.26	26.62
MP-0156-10-DR-*	10/20	1.404	1.706	1.845	2.158	2.406	1.654	35.66	43.33	46.86	54.81	61.11	42.01
MP-0156-12-DR*	12/24	1.716	2.018	2.157	2.470	2.718	1.966	43.59	51.26	54.79	62.74	69.04	49.94
MP-0156-15-DR-*	15/30	2.184	2.486	2.625	2.938	3.187	2.434	55.47	63.14	66.68	74.63	80.95	61.82
MP-0156-18-DR-*	18/36	2.652	2.954	3.093	3.406	3.656	2.902	67.36	75.03	78.56	86.51	92.86	73.71
MP-0156-22-DR-*	22/44	3.276	3.578	3.717	4.030	4.330	3.526	83.21	90.88	94.41	102.36	109.98	89.56
MP-0156-24-DR-*	24/48	3.588	3.890	4.029	4.342	4.642	3.838	91.14	98.81	102.34	110.29	117.91	97.49
MP-0156-25-DR-*	25/50	3.744	4.046	4.185	4.492	4.798	3.994	95.10	102.77	106.30	114.10	121.87	101.45
MP-0156-28-DR-*	28/56	4.212	4.514	4.653	4.966	5.216	4.462	106.98	114.66	118.19	126.14	132.49	113.34
MP-0156-30-DR-*	30/60	4.524	4.826	4.965	5.278	5.528	4.774	114.91	122.58	126.11	134.06	140.41	121.26
MP-0156-31-DR-*	31/62	4.680	4.982	5.121	5.434	5.684	4.930	118.87	126.54	130.07	138.02	144.37	125.22
MP-0156-36-DR-*	36/72	5.460	5.762	5.901	6.214	6.464	5.710	138.68	146.36	149.89	157.84	164.19	145.03
MP-0156-40-DR-*	40/80	6.084	6.386	6.525	6.838	7.088	6.334	154.53	162.20	165.74	173.69	180.04	160.88
MP-0156-43-DR-*	43/86	6.552	6.854	6.993	7.306	7.556	6.802	166.42	174.09	177.62	185.57	191.92	172.77

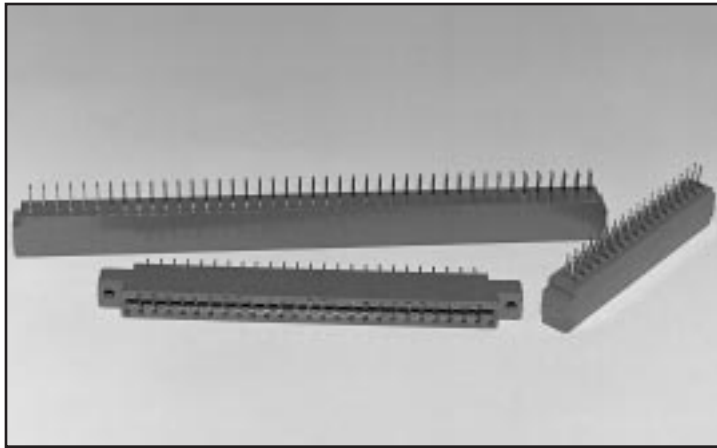
\*NOTE: Add mounting and termination style digits to part number.  
\*\* .020 longer card slot available (MOD. 'E')

# .156

## Contact Centers Edgecard Connector .025 Square Extender Card Connector

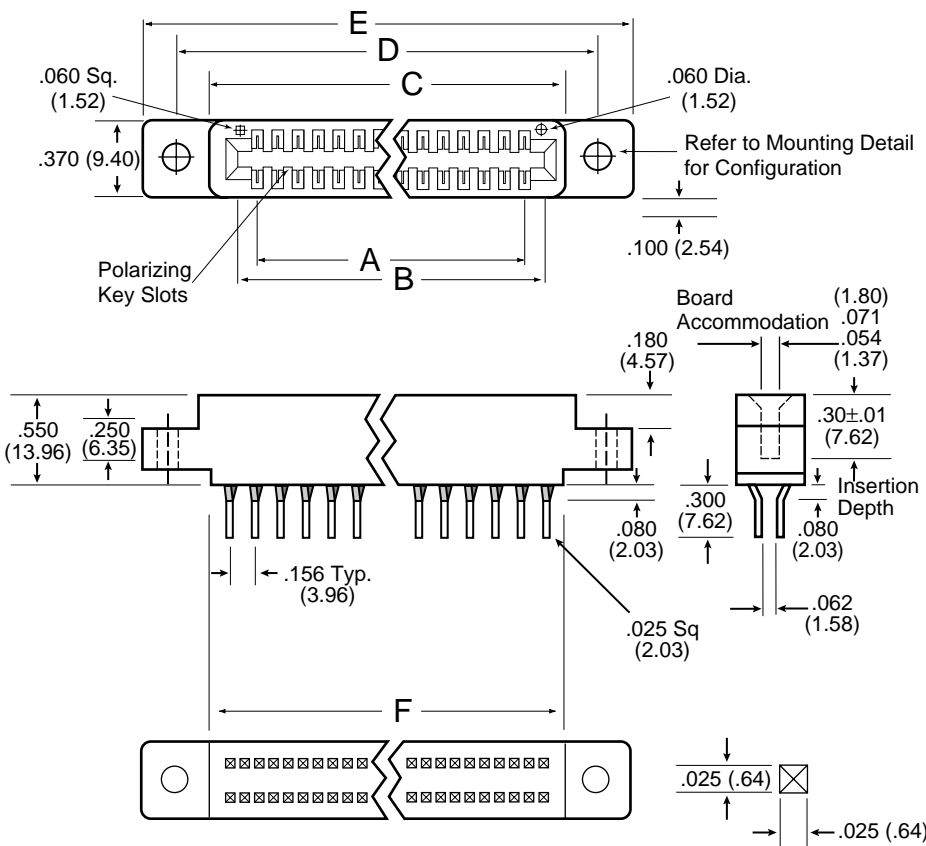
U.L. APPROVED E78000 (S)

### Part Number Description



MPS or MP-0156-10-D W E-4 K	
Selective Gold Plating	_____
Standard All Gold Plating	_____
Contact Spacing	_____
Number of Contacts per row	_____
Dual Readout D	_____
.025 Square Wire Wrap	_____
Extender Card	_____
.125 Flush Mounting Holes	1
4-40 Flush Threaded Inserts	2
No. Mounting Ears	4
.125 Dia. Raised Mounting Ears	5
4-40 Threaded Insert Mount	6
Tin Plated Tails for MPS Style all Tin Plated for MP Style	_____

### Dimensions



#### Contact Identification

for 10 thru 31 size      for 36, 40 and 43 size  
 Numbers: 1, 2, 3 ... 31      Letters: A, B, C, ... Z, A, B, C, ...  
 Letters: A, B, C, ... Z, A, B, C, ...      Numbers: 1, 2, 3 ... 43

### General Information

**CONTACT FORCES PER MIL-C-21097C**

#### MATERIALS/FINISHES:

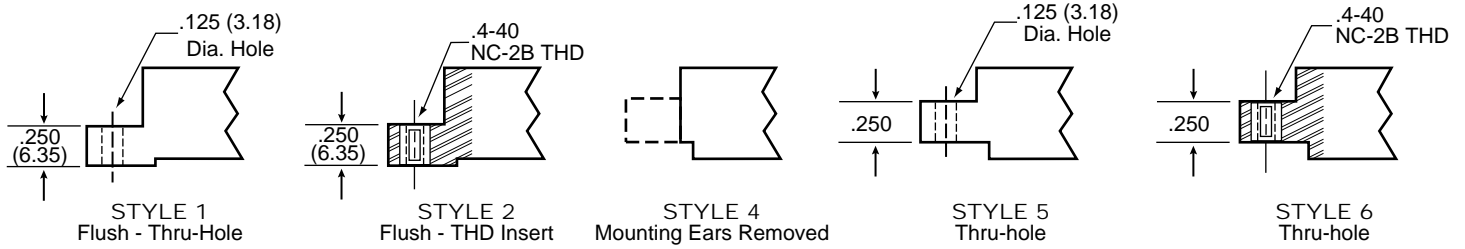
- **Insulator:** Glass filled polyester (G.E. Valox 420-SEO or Equiv.)  
**Color:** Blue (Black or Green available upon request)
- **Keys:** Nylon, **Color:** White
- **Contacts:** Phosphor Bronze
- **Contact Finishes:** (MP Version) .000010 gold per MIL-G-45204 type II over nickel (MPS Version) CA 725 copper alloy .000010 to .000015 gold inlay; (Western Electric Type 1) over .000030 nickel on bellows face only. Tails are tin/lead plated.
- **Hardware:** Nickel plated brass.

**NOTE:** Various insulator materials, colors, plating material, thickness and sizes available upon request.

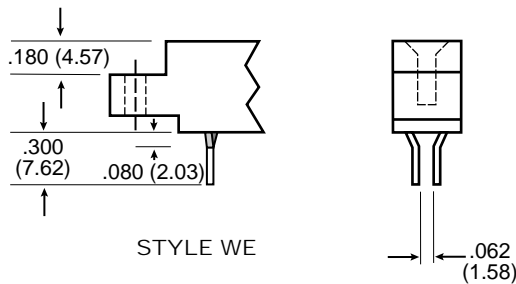
# High Profile

.156 x .062 ROW

## Mounting Styles-Detail G \* NOTE: Additional mounting styles and hole sizes available upon request.



## Termination Styles-Detail H



## Polarizing Key (Between Contact Positions)

Polarizing Key  
ordered separately  
P/N 04-0004-000

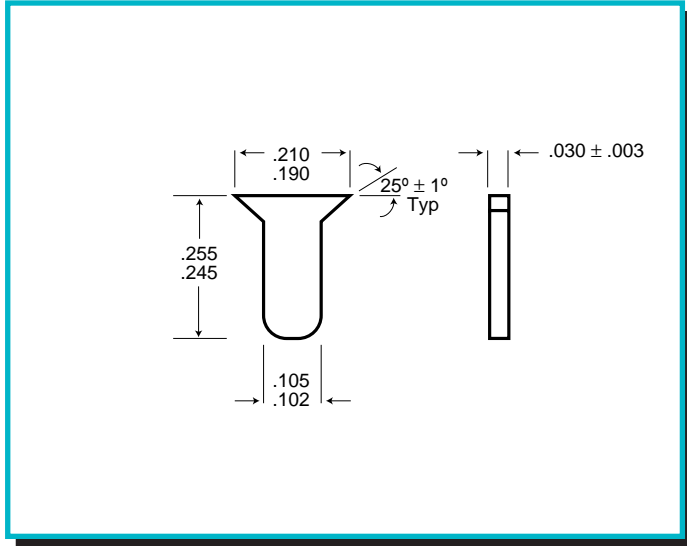


## Part Numbers/Dimensions

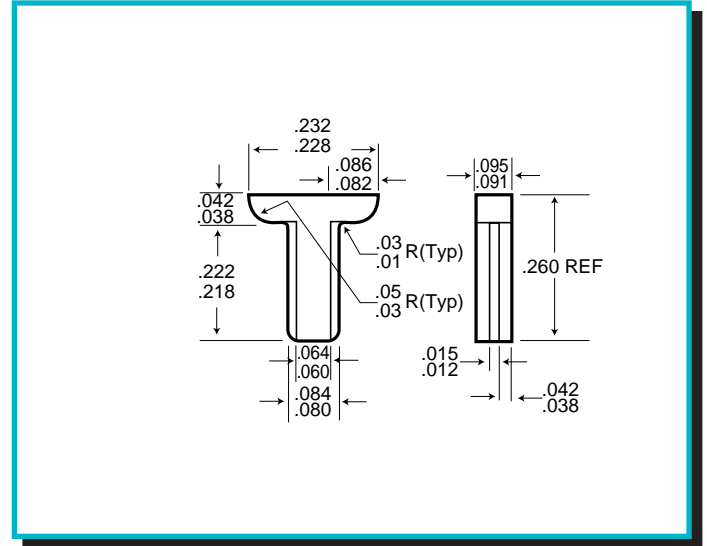
PART NUMBER	NO. OF CONT.	** INCHES						** MILLIMETERS					
		A ±.010	B ±.010	C ±.015	D ±.015	E ±.020	F ±.015	A ±0.25	B ±0.25	C ±0.38	D ±0.38	E ±0.51	F ±0.20
MP-0156-06-DWE-*	6/12	.780	1.082	1.221	1.534	1.782	1.030	19.81	27.48	31.01	38.96	45.26	26.62
MP-0156-10-DWE-*	10/20	1.404	1.706	1.845	2.158	2.406	1.654	35.66	43.33	46.86	54.81	61.11	42.01
MP-0156-12-DWE-*	12/24	1.716	2.018	2.157	2.470	2.718	1.966	43.59	51.26	54.79	62.74	69.04	49.94
MP-0156-15-DWE-*	15/30	2.184	2.486	2.625	2.938	3.187	2.434	55.47	63.14	66.68	74.63	80.95	61.82
MP-0156-18-DWE-*	18/36	2.652	2.954	3.093	3.406	3.656	2.902	67.36	75.03	78.56	86.51	92.86	73.71
MP-0156-22-DWE-*	22/44	3.276	3.578	3.717	4.030	4.330	3.526	83.21	90.88	94.41	102.36	109.98	89.56
MP-0156-24-DWE-*	24/48	3.588	3.890	4.029	4.342	4.642	3.838	91.14	98.81	102.34	110.29	117.91	97.49
MP-0156-25-DWE-*	25/50	3.744	4.046	4.185	4.492	4.798	3.994	95.10	102.77	106.30	114.10	121.87	101.45
MP-0156-28-DWE-*	28/56	4.212	4.514	4.653	4.966	5.216	4.462	106.98	114.66	118.19	126.14	132.49	113.34
MP-0156-30-DWE-*	30/60	4.524	4.826	4.965	5.278	5.528	4.774	114.91	122.58	126.11	134.06	140.41	121.26
MP-0156-31-DWE-*	31/62	4.680	4.982	5.121	5.434	5.684	4.930	118.87	126.54	130.07	138.02	144.37	125.22
MP-0156-36-DWE-*	36/72	5.460	5.762	5.901	6.214	6.464	5.710	138.68	146.36	149.89	157.84	164.19	145.03
MP-0156-40-DWE-*	40/80	6.084	6.386	6.525	6.838	7.088	6.334	154.53	162.20	165.74	173.69	180.04	160.88
MP-0156-43-DWE-*	43/86	6.552	6.854	6.993	7.306	7.556	6.802	166.42	174.09	177.62	185.57	191.92	172.77

\*NOTE: Add mounting and termination style digits to part number.

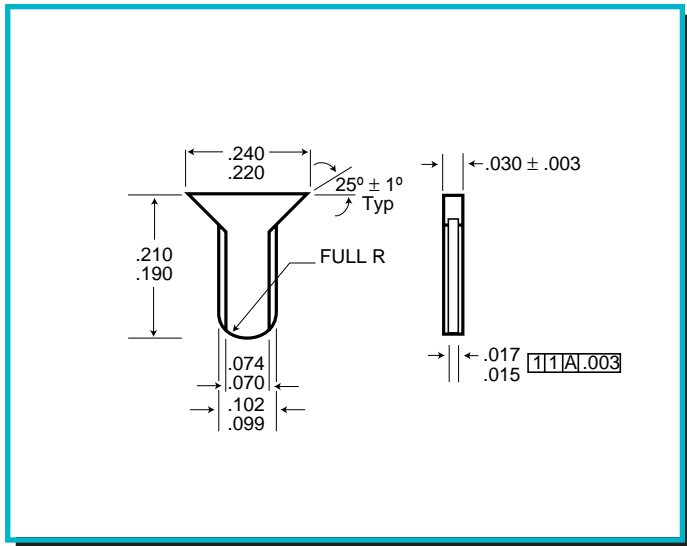
# Polarizing Keys



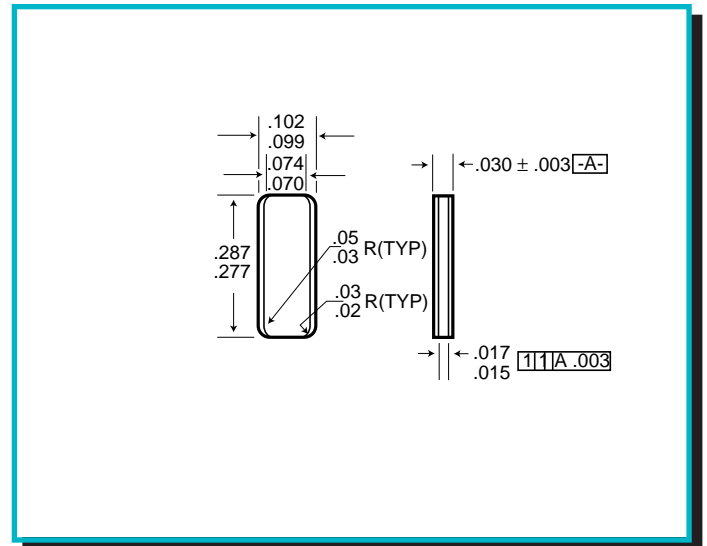
Polarizing Key  
Ordered Separately  
P/N 04-0001-000



Polarizing Key  
Ordered Separately  
P/N 04-0002-000



Polarizing Key  
Ordered Separately  
P/N 04-0003-000



Polarizing Key  
Ordered Separately  
P/N 04-0004-000