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Since 1969, Sullins has been providing high quality connectors at reasonable prices - and our quick turnaround on delivery. We’re specialists in service, experienced technicians, and proud of our outstanding name in the industry. With over a million listed part numbers, we are prepared to meet your request, and still welcome any special application that we’ll help you design. If your application has unique dimensions, requires particular materials or demands an unusual plating thickness, we will be happy to evaluate your engineering requirements.

Please contact our sales office at (619) 744-0125 for samples, quotes or specifications. We look forward to serving you.
**General Specifications**

**MATERIALS**
- **Insulator:** Blue glass filled thermoplastic polyester Valox UL 94V-O Approved; Green glass filled ployphenylene sulfide Ryton UL 94V-O Approved; Natural brown polyetheretherketone Peek UL 94V-O Approved; Other materials available.
- **Contacts:** Phosphor Bronze (Standard); Beryllium Copper; Pfinodal; Beryllium Nickle.
- **Contact Plating:** Gold and/or Tin over .000050" Nickle Under Plate.

**UL File Number:** E64287  
**CSA File Number:** 69695  
**Federal ID Number:** 54453

**MECHANICAL**
- **Board Insertion Force:** 16 oz. maximum per contact using .062" (1.57) steel test blade
- **Board Withdraw Force:** 1 oz. minimum per contact using .062" (1.57) steel test blade

**ELECTRICAL**
- **Insulation Resistance:** 5,000 megohms
- **Dielectric Withstanding Voltage:**
  - Contact Centers— .050 (1.27) .100 (2.54) .125 (3.17) .150 (3.81) .156 (3.96)
  - Voltage— 250 VDC 600 VDC 800 VDC 1500 VDC 1800 VDC
- **Current Rating:** 3 amperes
- **Voltage Drop:** 30 millivolts at rated current
- **Contact Resistance:** 10 milliohms maximum at 3 amp rating.

**ENVIRONMENTAL**
- **Solvent Resistance:** Perchloroethylene, Freon 113, Freon 11, Trichloroethylene
- **Operating Temperature:** Valox* -65° to +135° C  
  Phosphor Bronze -65° to +125° C  
  Ryton* -65° to +220° C  
  Beryllium Copper -65° to +150° C  
  Peek -65° to +250° C  
  Pfinodal* -65° to +200° C  
  Beryllium Nickle -65° to +300° C
  *(Continuous temperatures, higher for short duration.)*

**Special Applications**

Sullins connectors are available with over 700 modifications for customers with specific applications. If your design application has unique dimensions, requires special materials for insulators or contacts, or demands an unusual plating thickness, etc., Sullins will be happy to evaluate your engineering requirements.
Part Number Coding

P = .025 Square Post Headers (See pages 30-31)
D = D Subminiature Connectors (See pages 32-33)

MATERIALS (Insulator/Contact)
E = Valox®/Copper Alloy (Standard)
H = Valox/Beryllium Copper
A = Ryton/Beryllium Copper
G = Ryton/Beryllium Nickel (Consult Factory)
F = Ryton/Pfinodalt® (Consult Factory)
N = Peek/Beryllium Copper (Consult Factory)
M = Peek/Beryllium Copper (Consult Factory)

CONTACT FINISH
Contact Surface Termination
Z = .000010 Gold .000100 Tin
X = .000030 Gold .000100 Tin
Y = .000030 Gold .000005 Gold
Contact Surface Overall Plating
T = .000100 Tin .000100 Tin
M = .000030 Gold .000010 Gold
All Gold Plated Over .000050 Inch Nickel

CONTACT CENTERS
B = .050 (1.27) J = .150 (3.81)
C = .100 (2.54) M = .156 (3.96)
A = .125 (3.17)

NUMBER OF CONTACT POSITIONS
02 thru 110

TERMINATION TYPE
Eyelet
RE, TE, SE = Eyelet Tail
RZ = Forked Eyelet Tail

Low Profile Dip Solder
SX, SU = Single Centered
RT, RK, RY = Single/.140 (3.56) Row Spacing
RX, RU, RP = .200 (5.08) Row Spacing
RJ = .250 (6.35) Row Spacing

High Profile Dip Solder
RS = .025 (64) Square Tail with Loop Bellows
CS, SC = .025 (64) Square Tail with Hairpin Bellows
CT, CW = .015 x .025 Tail with Hairpin Bellows
CF, CH, CR = .012 x .018 Tail with Hairpin Bellows
TK = .026 (.66) Round Tail with Loop Bellows
CK = .026 (.66) Round Tail with Hairpin Bellows
KJ = .031 (.79) Square Tail with Cantilever Beam

Wire Wrap
RM = .025 (64) Square Post with Loop Bellows
CM, MC = .025 (64) Square Post with Hairpin Bellows
KK = .031 (.79) x .062 (1.57) Post
KL = .031 (.79) x .062 (1.57) Post Twisted 90°
WW = .045 (1.14) Square Post

Right Angle
RA, SA = Right Angle with Full Bellows
TA, TB, TM = Right Angle with Loop Bellows
CA, CB, CC = Right Angle with Hairpin Bellows

Specifications are subject to change without notice.

†High tin solder cannot be used with Pfinodal contacts in applications greater than 150°C. Consult factory for recommendation.
.050 (1.27mm) Contact Centers

Features:
- Accommodates .062 (±.008) PC Board
- One-third greater density than D.I.N.
- High reliability/High cycle hairpin bellows contact
- Low insertion force with 150g normal force
- Available with ears and/or robotic slots
- Surface mount and card extender versions
- .125 tail length
- No special chamfer requirements
- Consult factory for other sizes

Readout

![Readout Diagram]

Materials:
Insulator Material:
- Brown Ryton (Glass-filled polyphenylene sulfide)
Contact Material:
- Phosphor bronze contact (Standard)
- Beryllium copper
- Pfinodal (Special order)

Termination Type

![Termination Type Diagram]

Mounting Style

![Mounting Style Diagram]
High Profile Dip Solder/SMT Edgecard Connectors

**Part Number Coding**

MATERIALS (Insulator/Contact)

- **R** = Ryton/Phosphor Bronze
- **A** = Ryton/Beryllium Copper
- **F** = Ryton/Pinodal (Special)**

CONTACT FINISH

- **Z** = 0000010 Gold
- **X** = 0000030 Gold

CONTACT CENTERS

- **B** = 050 (1.27)

NUMBER OF CONTACT POSITIONS

- **05** Thru 105

**High tin solder cannot be used with Pinodal contacts in applications greater than 150°C. Consult factory for recommendation.**

**Dimensions**

- **EVEN POSITIONS, .040 Dia. Hole**
- **ODD POSITIONS**

**Part Number**

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.050 (1.27 mm) contact centers

Features:
- High reliability/High cycle hairpin bellows contact
- Low insertion force with 150g normal force
- Washable after wave solder
- Available with ears and/or robotic slots
- Surface mount and card extender versions
- 125" tail length
- Closed bottom allows for less crosstalk
- No special chamfer requirements
- Consult factory for other sizes

Readout

Materials:
Insulator Material:
- Brown Ryton (Glass-filled polyphenylene sulfide) – 65°C to +220°C

Contact Material:
- Phosphor bronze (Standard)
- Beryllium copper
- Plinodal

Termination Type

Mounting Style

EARS REMOVED

NO MOUNTING EARS (N)

FLUSH MOUNTING (D)

FLUSH MOUNTING WITH THREADED INSERT (T)
Micro Channel™ Edgecard Connectors

Part Number Coding

**MATERIALS (Insulator/Contact)**

R = Ryton/Phosphor Bronze
A = Ryton/Beryllium Copper
F = Ryton/Pinodal (Special)*

**CONTACT FINISH**

Contact Surface
Z = .000010 Gold
X = .000030 Gold

Termination
.000050 = Tin
.000100 = Nickle underplate

**CONTACT CENTERS**

A = .050 (1.27)

**NUMBER OF CONTACT POSITIONS**

56 = 11/45
60 = 11/49
66 = 11/45/10
91 = 42/49

*High tin solder cannot be used with Pinodal contacts in applications greater than 150°C. Consult factory for recommendation.

Dimensions

**PART NUMBER**

**NUMBER OF POSITIONS**

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<th>E</th>
<th>F</th>
<th>G</th>
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<td>3.624</td>
<td>3.940</td>
<td>N/A</td>
<td>N/A</td>
<td>15.88 64.14 12.70 60.96 64.77 84.84 92.10 100.08 N/A N/A</td>
</tr>
<tr>
<td>RXB 66 DCHD-S578</td>
<td>11/45/10</td>
<td>0.625</td>
<td>N/A</td>
<td>0.500</td>
<td>2.200</td>
<td>2.356</td>
<td>3.740</td>
<td>4.024</td>
<td>4.340</td>
<td>2.925</td>
<td>0.450</td>
<td>15.88 N/A 12.70 55.88 59.69 95.00 102.26 110.24 74.30 11.43</td>
</tr>
<tr>
<td>RXB 91 DCHD-S578</td>
<td>42/49</td>
<td>2.175</td>
<td>2.525</td>
<td>2.050</td>
<td>2.400</td>
<td>2.556</td>
<td>4.890</td>
<td>5.176</td>
<td>5.490</td>
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<td>N/A</td>
<td>55.24 64.14 52.07 60.96 64.77 84.84 92.10 131.47 139.45 N/A N/A</td>
</tr>
<tr>
<td>RXB 106 DCHD-S578</td>
<td>11/45/50</td>
<td>0.625</td>
<td>0.500</td>
<td>2.200</td>
<td>2.356</td>
<td>5.740</td>
<td>N/A</td>
<td>N/A</td>
<td>4.925</td>
<td>2.450</td>
<td>15.88 N/A 12.70 55.88 59.69 145.80 N/A N/A 125.10 62.23</td>
<td></td>
</tr>
</tbody>
</table>
.100 (2.54 mm) contact centers

Features
- Multi Bus I P2 available in all configurations
- S-100 Bus available in all configurations
- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated full bellows contacts
- Blue Valox or Green Ryton insulator

Readout

Polarizing Key
Order Separately
PLA-K1

Termination Type

Mounting Style
Low Profile Dip Solder/Eyelet Edgecard Connectors

Part Number Coding

**MATERIALS (Insulator/Contact)**
- E = Valox/Phosphor Bronze (Standard)  
- H = Valox/Beryllium Copper  
- R = Ryton/Phosphor Bronze  
- A = Ryton/Beryllium Copper  
- C = Ryton/Beryllium Nickel (Consult Factory)  
- N = Peek/Beryllium Copper (Consult Factory)  
- F = Ryton/Pinodal® (Consult Factory)

**CONTACT FINISH**
- Z = .000010 Gold  
- X = .000030 Gold  
- G = .000010 Gold  
- Y = .000030 Gold  
- Contact Surface: Overall Plating  
- T = .000100 Tin  
- S = .000100 Tin  
- M = .000300 Gold

**CONTACT CENTERS**
- C = .100 (2.54)  
  *High tin solder cannot be used with Pinodal contacts in applications greater than 150°C. Consult factory for recommendation.*

**Dimensions**

Dimensions in () are in millimeters, all others are in inches. Tolerance with Ryton Insulator material may vary slightly due to shrinkage differential; consult factory.

**MULTIBUS I**

**S-100 BUS**

**Part Number Coding**

- **Part Number**
  - **Number of Contacts**
  - **Inches**
  - **Millimeters**

**MODIFICATIONS (Consult Factory)**
- OMIT FOR STANDARD
- -S13 = Card Extender Formed to Fit .062 (1.57) PCB

**Mounting Style**
- M = Clearance Hole
- N = No Mounting Ears
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

**Termination Type**
- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140 (3.56) x .200 (5.08) Dip Solder
- RH = .140 (3.56) x .440 (11.15) Dip Solder
- RX = .200 (5.08) x .185 (4.70) Dip Solder

**Number of Contact Positions**
- 05 thru 60

---

1 For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZC15DREH).
2 Consult factory for availability.
.100 (2.54 mm) contact centers

Features
- Multi Bus I P2 available in all configurations
- S-100 Bus available in all configurations
- Accommodates .62 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Readout

Polarizing Key
Order Separately

Termination Type

Mounting Style

<table>
<thead>
<tr>
<th>Bellows</th>
<th>Termination Type</th>
<th>Post Cross Section (K)</th>
<th>Post Length (L)</th>
<th>Fits Min. Hole Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK</td>
<td>TK</td>
<td>.020 (.51) Round</td>
<td>.190 (4.83)</td>
<td>.033 (0.84)</td>
</tr>
<tr>
<td>CM</td>
<td>RM</td>
<td>.026 (.66) Square</td>
<td>.190 (4.83)</td>
<td>.040 (1.02)</td>
</tr>
<tr>
<td>CA</td>
<td>TA</td>
<td>.025 (.64) Square</td>
<td>.560 (14.2)</td>
<td>.040 (1.02)</td>
</tr>
<tr>
<td>CB</td>
<td>TB</td>
<td>.025 (.64) Square</td>
<td>.100 (2.54)</td>
<td>.043 (1.00)</td>
</tr>
<tr>
<td>CC</td>
<td>TM</td>
<td>.025 (.64) Square</td>
<td>.180 (4.57)</td>
<td>.043 (1.00)</td>
</tr>
<tr>
<td>CW</td>
<td>Dip Solder</td>
<td>.015 (.38x.64)</td>
<td>.125 (3.18)</td>
<td>.035 (0.76)</td>
</tr>
<tr>
<td>CT</td>
<td>Dip Solder</td>
<td>.015 (.38x.64)</td>
<td>.170 (4.32)</td>
<td>.035 (0.76)</td>
</tr>
<tr>
<td>CS</td>
<td>Dip Solder</td>
<td>.025 (.64) Square</td>
<td>.160 (4.06)</td>
<td>.040 (1.02)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting Style</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEARANCE HOLE (H)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
<tr>
<td>THREADED INSERT (I)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
<tr>
<td>SIDE MOUNTING (S)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
<tr>
<td>NO MOUNTING EARS (N)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
<tr>
<td>FLUSH MOUNTING (W) WITH THREADED INSERT (T)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
<tr>
<td>FLUSH MOUNTING (D)</td>
<td><img src="#" alt="Diagram" /></td>
</tr>
</tbody>
</table>
High Profile Dip Solder/Wire Wrap Edgecard Connectors

Part Number Coding

MATERIALS (Insulator/Contact)  
E = Valox/Phosphor Bronze  
Consult Factory for Other Materials

CONTACT FINISH

Contact Surface  
Z = .000010 Gold  
X = .000030 Gold  
G = .000010 Gold  
Y = .000030 Gold  
T = .000100 Tin  
S = .000010 Gold  
M = .000030 Gold

Overall Plating

Contact Surface  
Z = .000010 Gold  
X = .000030 Gold  
G = .000010 Gold  
Y = .000030 Gold  
T = .000100 Tin  
S = .000010 Gold  
M = .000030 Gold

CONTACT CENTERS  
C = .100 (2.54)

*Not available with Hairpin Bellows

NUMBER OF POSITIONS  
08 thru 70

See page 35 for additional modifications

MODIFICATIONS (Consult Factory)

OMIT FOR STANDARD

S189 = .200 Row to Row on Right Angle

MOUNTING STYLE

H = Clearance Hole  
I = Threaded Insert  
S = Side Mounting  
N = No Mounting Ear

W = Flush Mounting  
D = Flush Mounting  
X = Flush Mounting with Threaded Insert  
T = Flush Mounting with Threaded Insert

TERMINATION TYPE (See Table)

Hairpin Bellows  
CS = .035 (.84) Square Dip Solder  
CM = .025 (.64) Round Dip Solder  
CA, CB, CC = Right Angle  
CW, CT = .015 x .025 Dip Solder

Loop Bellows  
RS = .025 (.64) Square Dip Solder  
TR = .025 (.64) Square Wire Wrap  
TA, TB, TM = Right Angle

READOUT

D = Dual  
H = Half Loaded

Dimensions

All dimensions are in inches. Dimensions in ( ) are in millimeters.

MULTIBUS I  
S-100 BUS

For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZC15DCSH).

Consult factory for availability.

---

13
.125 (3.17 mm) contact centers

Features
- STD Bus available in all configurations
- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated full bellows contacts
- Blue Valox or Green Ryton insulator

Readout
- Full Bellows
- Back-up Springs

Polarizing Key
Order Separately
- Number Side

Termination Type
- EYELET (TE) (SPECIAL)
- EYELET (RE) (STANDARD)
- RIGHT ANGLE (RA)
- NARROW DIP SOLDER (RT, RY)
- WIDE DIP SOLDER (RX, RJ)

Mounting Style
- CLEARANCE HOLE (H)
- THREADED INSERT (I)
- FLOATING BOBBIN (F)
- NO MOUNTING EARS (N)
- SIDE MOUNTING (S)
### Low Profile Dip Solder/Eyelet Edgecard Connectors

**Part Number Coding**

<table>
<thead>
<tr>
<th>MATERIALS (Insulator/Contact)</th>
<th>CONTACT FINISH</th>
<th>CONTACT CENTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E = Valox/Phosphor Bronze (Standard)</td>
<td>Contact Surface</td>
<td>A = .125 (3.17)</td>
</tr>
<tr>
<td>H = Valox/Beryllium Copper</td>
<td>Z = .000010 Gold</td>
<td><em>High tin solder cannot be used with Plinodal contacts in applications greater than 150°C. Consult factory for recommendation.</em></td>
</tr>
<tr>
<td>R = Ryton/Phosphor Bronze</td>
<td>X = .000030 Gold</td>
<td></td>
</tr>
<tr>
<td>A = Ryton/Beryllium Copper</td>
<td>G = .000010 Gold</td>
<td></td>
</tr>
<tr>
<td>C = Ryton/Beryllium Nickel (Consult Factory)</td>
<td>Y = .000030 Gold</td>
<td></td>
</tr>
<tr>
<td>W = Peek/Beryllium Nickel (Consult Factory)</td>
<td>Contact Surface</td>
<td></td>
</tr>
<tr>
<td>F = Ryton/Plinodal* (Consult Factory)</td>
<td>Overall Plating</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

Dimensions in () are in millimeters, all others in inches. Tolerance with Ryton Insulator material may vary slightly due to shrinkage differential; consult factory.

---

**Part Number Coding**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NUMBER OF CONTACTS</th>
<th>INCHES</th>
<th>MILLIMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZA06</td>
<td>6/12</td>
<td>0.625</td>
<td>15.88</td>
</tr>
<tr>
<td>EZA10</td>
<td>10/20</td>
<td>1.125</td>
<td>28.58</td>
</tr>
<tr>
<td>EZA14</td>
<td>14/28</td>
<td>1.625</td>
<td>41.28</td>
</tr>
<tr>
<td>EZA15</td>
<td>15/30</td>
<td>1.750</td>
<td>44.45</td>
</tr>
<tr>
<td>EZA18</td>
<td>18/36</td>
<td>2.125</td>
<td>53.98</td>
</tr>
<tr>
<td>EZA22</td>
<td>22/44</td>
<td>2.625</td>
<td>66.68</td>
</tr>
<tr>
<td>EZA28</td>
<td>28/56</td>
<td>3.375</td>
<td>85.73</td>
</tr>
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<td>EZA30</td>
<td>30/60</td>
<td>3.625</td>
<td>92.08</td>
</tr>
<tr>
<td>EZA31</td>
<td>31/62</td>
<td>3.750</td>
<td>95.25</td>
</tr>
<tr>
<td>EZA35</td>
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<td>4.250</td>
<td>117.95</td>
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<td>36/72</td>
<td>4.375</td>
<td>111.13</td>
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<td>EZA37</td>
<td>37/74</td>
<td>4.500</td>
<td>114.30</td>
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<tr>
<td>EZA40</td>
<td>40/80</td>
<td>4.875</td>
<td>123.83</td>
</tr>
<tr>
<td>EZA43</td>
<td>43/86</td>
<td>5.250</td>
<td>133.39</td>
</tr>
<tr>
<td>EZA44</td>
<td>44/88</td>
<td>5.375</td>
<td>136.53</td>
</tr>
<tr>
<td>EZA49</td>
<td>49/96</td>
<td>6.000</td>
<td>152.40</td>
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<tr>
<td>EZA50</td>
<td>50/100</td>
<td>6.125</td>
<td>155.58</td>
</tr>
</tbody>
</table>

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**Contact Markings**

<table>
<thead>
<tr>
<th>LETTERS</th>
<th>MILLIMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A B a b AA BB</td>
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</tr>
</tbody>
</table>

---

**Consult factory for availability.**

---

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NUMBER OF CONTACTS</th>
<th>INCHES</th>
<th>MILLIMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZA06</td>
<td>6/12</td>
<td>0.625</td>
<td>15.88</td>
</tr>
<tr>
<td>EZA10</td>
<td>10/20</td>
<td>1.125</td>
<td>28.58</td>
</tr>
<tr>
<td>EZA14</td>
<td>14/28</td>
<td>1.625</td>
<td>41.28</td>
</tr>
<tr>
<td>EZA15</td>
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<td>44.45</td>
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<td>18/36</td>
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<td>53.98</td>
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<td>EZA22</td>
<td>22/44</td>
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</tr>
<tr>
<td>EZA28</td>
<td>28/56</td>
<td>3.375</td>
<td>85.73</td>
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<td>30/60</td>
<td>3.625</td>
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<td>31/62</td>
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<td>35/70</td>
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<td>36/72</td>
<td>4.375</td>
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<td>37/74</td>
<td>4.500</td>
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<td>43/86</td>
<td>5.250</td>
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<td>44/88</td>
<td>5.375</td>
<td>136.53</td>
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<tr>
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<td>49/96</td>
<td>6.000</td>
<td>152.40</td>
</tr>
<tr>
<td>EZA50</td>
<td>50/100</td>
<td>6.125</td>
<td>155.58</td>
</tr>
</tbody>
</table>

---

1 For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZA15DREH).

2 Consult factory for availability.
.125 (3.17 mm) contact centers

Features
- STD Bus available in all configurations
- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Readout
DUAL (D)
HALF LOADED (H)

Polarizing Key
Order Separately

Termination Type

Mounting Style
High Profile Dip Solder/Wire Wrap Edgecard Connectors

Part Number Coding

MATERIALS (Insulator/Contact)
E = Valox/Phosphor Bronze
Consult Factory for Other Materials

CONTACT FINISH
Z = .000010 Gold
X = .000030 Gold
Y = .000010 Gold
Contact Surface
T = .000100 Tin
*S = .000010 Gold
*M = .000030 Gold
Overall Plating
0.00010 Tin
0.000010 Gold
0.000030 Gold

CONTACT CENTERS
A = .125 (3.17)

TERMINATION TYPE (See Table)

TERMINATION
Hairpin Bellows
CS = 025 (.64) Square Dip Solder
CX = 026 (.66) Round Dip Solder
CM = 025 (.64) Square Wire Wrap
CA, CB, CC = Right Angle
CW, CT = .015 x .025 Dip Solder

Loop Bellows
RS = .025 (.64) Square Dip Solder
TK = .025 (.66) Round Dip Solder
RM = .025 (.64) Square Wire Wrap
TA, TB, TM = Right Angle

READEOUT
D = Dual
H = Half Loaded

NUMBER OF POSITIONS
06 thru 56

Dimensions
All dimensions are in inches. Dimensions in ( ) are in millimeters.

Part Number Coding

MOUNTING STYLE
H = Clearance Hole
W = Flush Mounting
I = Threaded Insert
D = Flush Mounting
S = Side Mounting
X = Flush Mounting with Threaded Insert
T = Flush Mounting with Threaded Insert

READOUT
D = Dual
H = Half Loaded

NUMBEF OF POSITIONS
06 thru 56

For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZA40DCSH).
Consult factory for availability.

†For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZA40DCSH).
‡Consult factory for availability.

17
.125 (3.17 mm) contact centers

Features

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Readout

- Cantilever Contact

Termination Type

- .225 (5.71)

Mounting Style

- .142 Dia. Hole (3.61)
- #4-40NC-2B-Thd.
- Ears Removed

- CLEARANCE HOLE (P)
- THREADED INSERT (I)
- NO MOUNTING EARS (N)
.720 Profile Dip Solder Edgecard Connectors

Part Number Coding

MATERIALS (Insulator/Contact)
E = Valox/PHOSPHOR BRONZE

CONTACT FINISH
Contact Surface
Z = .000010 Gold
X = .000030 Gold
G = .000010 Gold
Y = .000030 Gold
Overall Plating
T = .000100 Tin
S = .000010 Gold

CONTACT CENTERS
A = .125 (3.17)

TERMINATION TYPE
KJ = .031 (.79) Square Post

READOUT
D = Dual
H = Half Loaded

NUMBER OF CONTACT POSITIONS
12 thru 50

Dimensions
All dimensions are in inches. Dimensions in ( ) are in millimeters.

<table>
<thead>
<tr>
<th>PART NUMBER †</th>
<th>NUMBER OF CONTACTS</th>
<th>A ± .008</th>
<th>B ± .008</th>
<th>C ± .015</th>
<th>D ± .010</th>
<th>E ± .020</th>
<th>F ± .015</th>
<th>A ± .20</th>
<th>B ± .20</th>
<th>C ± .38</th>
<th>D ± .25</th>
<th>E ± .51</th>
<th>F ± .38</th>
</tr>
</thead>
<tbody>
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<td>1.502</td>
<td>1.625</td>
<td>1.875</td>
<td>2.125</td>
<td>1.625</td>
<td>34.93</td>
<td>38.15</td>
<td>41.28</td>
<td>47.63</td>
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<td>41.28</td>
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<tr>
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<td>2.250</td>
<td>2.500</td>
<td>2.000</td>
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<td>47.68</td>
<td>50.80</td>
<td>57.15</td>
<td>63.50</td>
<td>50.80</td>
</tr>
<tr>
<td>EZA31 - - - †</td>
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<td>3.877</td>
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<td>4.500</td>
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<tr>
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<td>4.625</td>
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<td>5.750</td>
<td>6.000</td>
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<td>133.35</td>
<td>136.58</td>
<td>146.06</td>
<td>146.06</td>
<td>152.40</td>
<td>139.70</td>
</tr>
</tbody>
</table>

† For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZA50DKJP).
‡ Consult factory for availability.
.150 (3.8 mm) contact centers

Features
- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Readout
Hairpin Bellows
Gold Plate
Even Number Side

Termination Type
.WIRE WRAP (MC)
.DIP SOLDER (SC)

Mounting Style
.CLEARANCE HOLE (H)
.NE MOUNTING EARS (N)

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
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.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
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.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
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- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.

- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

Polarizing Key
Order Separately
PLC-K1

Terminals Type
.DUAL (D)
.HALF LOADED (H)

Mounting Style
#4-40 NC-2B Thd.
High Profile Dip Solder/Wire Wrap Edgecard Connectors

**Part Number Coding**

<table>
<thead>
<tr>
<th>MATERIALS (Insulator/Contact)</th>
<th>CONTACT FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>E = Valox/Phosphor Bronze</td>
<td>Contact Surface</td>
</tr>
<tr>
<td>Z = .000010 Gold</td>
<td>Termination .000100 Tin</td>
</tr>
<tr>
<td>X = .000030 Gold</td>
<td>.00050 Ni</td>
</tr>
<tr>
<td>Overall Plating T = .000100 Tin</td>
<td>Nipple underplate</td>
</tr>
<tr>
<td>S = .000010 Gold</td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT CENTERS**

J = .150 (3.81)

**MOUNTING STYLE**

H = Clearance Hole

I = Threaded Insert

N = No Mounting Ear

**TERMINATION TYPE**

MC = .025 (.64) Square Wire Wrap

SC = .025 (.64) Square Dip Solder

**READOUT**

D = Dual

H = Half Loaded

**NUMBER OF CONTACT POSITIONS**

18 thru 31 (See Table)

---

**Dimensions**

All dimensions are in inches. Dimensions in ( ) are in millimeters.

<table>
<thead>
<tr>
<th>PART NUMBER †</th>
<th>NUMBER OF CONTACTS</th>
<th>A ±.008</th>
<th>B ±.008</th>
<th>C ±.015</th>
<th>D ±.010</th>
<th>E ±.020</th>
<th>F ±.015</th>
<th>A ±.20</th>
<th>B ±.20</th>
<th>C ±.38</th>
<th>D ±.25</th>
<th>E ±.51</th>
<th>F ±.38</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZJ18 ___ ___ †</td>
<td>18/36</td>
<td>2.550</td>
<td>2.650</td>
<td>2.990</td>
<td>3.300</td>
<td>3.550</td>
<td>2.800</td>
<td>64.77</td>
<td>72.39</td>
<td>75.95</td>
<td>83.82</td>
<td>90.17</td>
<td>71.12</td>
</tr>
<tr>
<td>EZJ22 ___ ___ †</td>
<td>22/44</td>
<td>3.150</td>
<td>3.450</td>
<td>3.590</td>
<td>3.900</td>
<td>4.150</td>
<td>3.400</td>
<td>80.01</td>
<td>87.63</td>
<td>91.19</td>
<td>99.06</td>
<td>105.51</td>
<td>86.36</td>
</tr>
<tr>
<td>EZJ26 ___ ___ †</td>
<td>26/52</td>
<td>3.750</td>
<td>4.050</td>
<td>4.190</td>
<td>4.500</td>
<td>4.750</td>
<td>4.000</td>
<td>95.25</td>
<td>102.87</td>
<td>106.43</td>
<td>114.30</td>
<td>120.65</td>
<td>101.60</td>
</tr>
<tr>
<td>EZJ28 ___ ___ †</td>
<td>28/56</td>
<td>4.050</td>
<td>4.350</td>
<td>4.490</td>
<td>4.800</td>
<td>5.050</td>
<td>4.300</td>
<td>102.87</td>
<td>110.49</td>
<td>114.05</td>
<td>121.92</td>
<td>128.27</td>
<td>109.22</td>
</tr>
<tr>
<td>EZJ31 ___ ___ †</td>
<td>31/62</td>
<td>4.500</td>
<td>4.800</td>
<td>4.940</td>
<td>5.250</td>
<td>5.500</td>
<td>4.750</td>
<td>114.30</td>
<td>121.92</td>
<td>125.48</td>
<td>133.35</td>
<td>139.70</td>
<td>120.65</td>
</tr>
</tbody>
</table>

† For complete part number add readout and mounting style from Part Number Coding (e.g. EZJ26DSCH).

‡ Consult factory for availability.
Features

- Multi Bus I P1 available in all configurations
- Accommodates .062 (± .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox or Green Ryton insulator

Readout

- Full Bellows
- Back-up Springs

SINGLE (S)  DUAL (D)  HALF LOADED (H)

Polarizing Key

Order Separately

PLM-K1

0.21 (5.33)

PLM-K2

0.23 (5.84)

Termination Type

<table>
<thead>
<tr>
<th>RA</th>
<th>.125 (3.17) For All Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA</td>
<td>.270 (6.85) 02 thru 25 Positions</td>
</tr>
<tr>
<td>SA</td>
<td>.230 (5.84) 26 thru 36 Positions</td>
</tr>
</tbody>
</table>

Tolerance: RA ± .025 (.64), (SA) ± .040 (1.0)

Fits .051 (1.3) Min. Dia. Hole

RIGHT ANGLE DIP SOLDER (RA, SA)

.156 ± .025 (3.96 ± .64)

.050 (.13)

.225 (5.71)

.425 (10.8)

.225 (5.71)

.014 (0.36)

Material Thickness (SE), .007 (18)

Ears Removed

Mounting Style

.125 Dia. Hole (3.17)

#4-40NC-2B Thd.

.116 (2.95) Dia. Hole (Cl. for #4 Screw)

Ears Removed

.125 (3.17) Dia. Hole

CLEARANCE HOLE (H)

THREADED INSERT (I)

FLOATING BOBBIN (F)

NO MOUNTING EARS (N)

SIDE MOUNTING (S)
## Low Profile Dip Solder/Eyelet Edgocard Connectors

### Part Number Coding

**MATERIALS (Insulator/Contact)**
- E = Valox/Phosphor Bronze (Standard)
- H = Valox/Beryllium Copper
- R = Ryton/Phosphor Bronze
- A = Ryton/Beryllium Copper
- C = Ryton/Beryllium Nickel (Consult Factory)
- N = Peek/Beryllium Copper (Consult Factory)
- W = Peek/Beryllium Nickel (Consult Factory)
- F = Ryton/Phinodal* (Consult Factory)

**CONTACT FINISH**
- Z = .000010 Gold
- X = .000030 Gold
- G = .000010 Gold
- Y = .000030 Gold
- T = .000100 Tin
- S = .000010 Gold
- M = .000030 Gold

**CONTACT CENTERS**
- M = .156 (3.96)

**NUMBER OF CONTACT POSITIONS**
- 02 thru 43

### Dimensions

Dimensions in ( ) are in millimeters, all others are in inches. Tolerances with Ryton Insulator material may vary slightly due to shrinkage differential; consult factory.

**Contact Markings**
- (Letters G, I, O & Q Not Used)

**Sizes 28 Thru 43**
- 1 2 23 24
- A B AA BB

**PART NUMBER †**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NUMBER OF CONTACTS</th>
<th>A ± .008</th>
<th>B ± .008</th>
<th>C ± .015</th>
<th>D ± .010</th>
<th>E MAX ± .005</th>
<th>F ± .005</th>
<th>A ± .20</th>
<th>B ± .20</th>
<th>C ± .038</th>
<th>D ± .25</th>
<th>E ± .025</th>
<th>F ± .013</th>
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<tbody>
<tr>
<td>EZM02</td>
<td>2/4</td>
<td>.156</td>
<td>.476</td>
<td>.596</td>
<td>.596</td>
<td>.596</td>
<td>.596</td>
<td>.156</td>
<td>.476</td>
<td>.596</td>
<td>.596</td>
<td>.596</td>
<td>.596</td>
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<tr>
<td>EZM08</td>
<td>8/16</td>
<td>1.092</td>
<td>1.412</td>
<td>1.532</td>
<td>1.845</td>
<td>2.187</td>
<td>2.527</td>
<td>27.74</td>
<td>35.86</td>
<td>38.91</td>
<td>38.91</td>
<td>38.91</td>
<td>38.91</td>
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<tr>
<td>EZM10</td>
<td>10/20</td>
<td>1.404</td>
<td>1.724</td>
<td>1.844</td>
<td>2.157</td>
<td>2.499</td>
<td>2.846</td>
<td>35.66</td>
<td>43.79</td>
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<td>EZM11</td>
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<td>1.560</td>
<td>1.880</td>
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<td>2.655</td>
<td>3.000</td>
<td>39.62</td>
<td>47.75</td>
<td>50.80</td>
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<tr>
<td>EZM12</td>
<td>12/24</td>
<td>1.716</td>
<td>2.036</td>
<td>2.156</td>
<td>2.469</td>
<td>2.811</td>
<td>3.157</td>
<td>43.58</td>
<td>51.71</td>
<td>54.76</td>
<td>54.76</td>
<td>54.76</td>
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<td>EZM15</td>
<td>15/30</td>
<td>2.184</td>
<td>2.504</td>
<td>2.624</td>
<td>2.937</td>
<td>3.279</td>
<td>3.632</td>
<td>55.47</td>
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<td>2.972</td>
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<td>3.405</td>
<td>3.747</td>
<td>4.029</td>
<td>67.36</td>
<td>75.49</td>
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<td>22/44</td>
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<td>3.596</td>
<td>3.716</td>
<td>4.029</td>
<td>4.371</td>
<td>4.632</td>
<td>83.21</td>
<td>91.34</td>
<td>99.38</td>
<td>102.34</td>
<td>102.34</td>
<td>102.34</td>
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<tr>
<td>EZM24</td>
<td>24/48</td>
<td>3.588</td>
<td>3.908</td>
<td>4.028</td>
<td>4.341</td>
<td>4.663</td>
<td>4.984</td>
<td>91.13</td>
<td>99.26</td>
<td>102.34</td>
<td>102.34</td>
<td>102.34</td>
<td>102.34</td>
</tr>
<tr>
<td>EZM25</td>
<td>25/50</td>
<td>3.744</td>
<td>4.064</td>
<td>4.184</td>
<td>4.497</td>
<td>4.839</td>
<td>5.140</td>
<td>95.03</td>
<td>103.12</td>
<td>106.27</td>
<td>106.27</td>
<td>106.27</td>
<td>106.27</td>
</tr>
<tr>
<td>EZM26</td>
<td>28/56</td>
<td>4.212</td>
<td>4.532</td>
<td>4.652</td>
<td>4.964</td>
<td>5.303</td>
<td>5.616</td>
<td>106.98</td>
<td>115.11</td>
<td>118.26</td>
<td>118.26</td>
<td>118.26</td>
<td>118.26</td>
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<tr>
<td>EZM28</td>
<td>32/72</td>
<td>5.460</td>
<td>5.780</td>
<td>5.906</td>
<td>6.219</td>
<td>6.666</td>
<td>7.022</td>
<td>138.96</td>
<td>146.81</td>
<td>150.51</td>
<td>150.51</td>
<td>150.51</td>
<td>150.51</td>
</tr>
<tr>
<td>EZM36</td>
<td>43/86</td>
<td>6.552</td>
<td>6.872</td>
<td>7.000</td>
<td>7.302</td>
<td>7.643</td>
<td>8.000</td>
<td>166.42</td>
<td>174.55</td>
<td>177.70</td>
<td>180.85</td>
<td>180.85</td>
<td>180.85</td>
</tr>
</tbody>
</table>

† For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZM18DREH).

‡ Available with style N mounting only.

*High tin solder cannot be used with Phinodal contacts in applications greater than 150°C. Consult factory for recommendation.

**Readout**
- D = Dual
- S = Single (Available with Overall Plating and RT, RK, RE, RZ Termination Only)
- H = Half Loaded

---

Sullins orderline: 619/744-0125 Fax/744-6081
**Features**

- Multi Bus I P1 available in all configurations
- Accommodates .062 (+ .008) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 amper current rating
- Contact resistance 10 milliohms max
- Bifurcated contacts
- Blue Valox insulator

**Readout**

- **DUAL (D)**
- **HALF LOADED (H)**

**Number Side**

- .200 ± .015
- (5.08)

**Polarizing Key**

Order Separately

- PLC-K1

**Termination Type**

<table>
<thead>
<tr>
<th>Bellows Harpin</th>
<th>Loop</th>
<th>Termination Type</th>
<th>Post Cross Section</th>
<th>Post Length</th>
<th>Fits Min. Hole Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK</td>
<td>TK</td>
<td>Dip Solder</td>
<td>.026 (.66) Round</td>
<td>.190 (4.83)</td>
<td>.035 (0.84)</td>
</tr>
<tr>
<td>CM</td>
<td>RM</td>
<td>Dip Solder</td>
<td>.025 (.64) Square</td>
<td>.190 (4.83)</td>
<td>.040 (1.02)</td>
</tr>
<tr>
<td>CA</td>
<td>TA</td>
<td>Wire Wrap</td>
<td>.025 (.64) Square</td>
<td>.560 (14.2)</td>
<td>.043 (1.09)</td>
</tr>
<tr>
<td>CB</td>
<td>TB</td>
<td>Right Angle</td>
<td>.025 (.64) Square</td>
<td>.100 (2.54)</td>
<td>.043 (1.09)</td>
</tr>
<tr>
<td>CC</td>
<td>TM</td>
<td>Right Angle</td>
<td>.025 (.64) Square</td>
<td>.180 (4.57)</td>
<td>.043 (1.09)</td>
</tr>
<tr>
<td>CW</td>
<td>Dip Solder</td>
<td>.025 (.64) Square</td>
<td>.250 (6.35)</td>
<td>.043 (1.09)</td>
<td></td>
</tr>
<tr>
<td>CT</td>
<td>Dip Solder</td>
<td>.015 x .025 (.38 x .64)</td>
<td>.125 (3.18)</td>
<td>.035 (0.76)</td>
<td></td>
</tr>
<tr>
<td>CS</td>
<td>Dip Solder</td>
<td>.015 x .025 (.38 x .64)</td>
<td>.170 (4.32)</td>
<td>.035 (0.76)</td>
<td></td>
</tr>
</tbody>
</table>

**Mounting Style**

- CLEARANCE HOLE (H)
- #4-40-NC-28 Thd.
- 125 Dia. Hole
- .317 (3.17)
- 245 (.62)
- Ears Removed
- .030 (.76) Max.
- 125 Dia. Hole
- (3.17)
- FLUSH MOUNTING (W)
- FLUSH MOUNTING (D)
- FLUSH MOUNTING WITH THREADED INSERT (X)
- WITH THREADED INSERT (T)
# High Profile Dip Solder/Wire Wrap Edgecard Connectors

## Part Number Coding

**MATERIALS (Insulator/Contact)**

| E = Valox/Phosphor Bronze |
| Consult Factory for Other Materials |

### CONTACT FINISH

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### CONTACT CENTERS

| M = .156 (3.96) |

*Not available with Hairpin Bellows*

---

## Dimensions

All dimensions are in inches. Dimensions in ( ) are in millimeters.

### PART NUMBER

#### NUMBER OF CONTACTS

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### Contact Markings

- Letters G, I, O & Q Not Used
- SIZES 06-25 & 30

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### Multi-Bus I

For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZM36DCS). Consult factory for availability.
.156 (3.96 mm) contact centers

Features
- Multi Bus 1 P1 available in all configurations
- Accommodates .062 (+.008) PC Board
- Solvent resistant insulator U.L. recognized
- Low cost cantilever contacts
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Black Valox insulator

Readout

Termination Type

Mounting Style
.720 Profile Wire Wrap Edgecard Connectors

Part Number Coding

**MATERIALS** (Insulator/Contact)
- E = Valox/Phosphor Bronze

**CONTACT FINISH**
- **Terminal**
  - 000100 Tin
  - 000050 Nickel
  - 000005 Gold

**CONTACT CENTERS**
- M = 156 (3.96)

**MOUNTING STYLE**
- H = Clearance Hole
- N = No Mounting Ears
- I = Threaded Insert

**TERMINATION TYPE**
- KK = .031 (.79) x .062 (1.57) Post as Shown
- KL = .031 (.79) x .062 (1.57) Post Twisted 90°
- KJ = .031 (.79) Square Post
- WW = .045 (1.14) Square Post

**READOUT**
- D = Dual
- H = Half Loaded

**NUMBER OF CONTACT POSITIONS**
- 10 thru 50 (See Table)

Dimensions

All dimensions are in inches. Dimensions in ( ) are in millimeters.

Refer to Mounting Style

Refer to Termination Type

Contact Identification

Alternate Identifications Available. Consult Factory.

---

**MULTI BUS I**

**PART NUMBER**
**NUMBER OF CONTACTS**
**INCHES**

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<td>174.41</td>
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<td>EZM43</td>
<td>166.42</td>
<td>174.55</td>
<td>177.69</td>
<td>185.87</td>
<td>191.32</td>
<td>201.50</td>
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<td>EZM50</td>
<td>194.16</td>
<td>202.28</td>
<td>205.43</td>
<td>213.31</td>
<td>219.66</td>
<td>229.94</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZM22DKKH).

Consult factory for availability.
.156 (3.96 mm) contact centers

Features

- Accommodates .062 (± .008) PC Board
- Blue Valox or Green Ryton insulator
- Between contact polarization available
- Special 36 & 43 contact connectors having reverse contact position identification
- Special 28 contact connector with center barrier divider
- 3 ampere current rating
- Contact resistance 10 milliohms max

Readout

- Full Bellows
- Back-up Springs

Polarizing Key

Order Separately

PLM-K1

- .030 (.76)
- .21 (5.33)

PLM-K2

- .09 (2.29)
- .23 (5.84)

Termination Type

- (RA) .125 (3.17) For All Positions
- (SA) .200 (5.08) 28 thru 36 Positions
- (SA) .190 (4.82) 43 Position
- Tolerance: RA ± .025 (.64)
- (SA) ± .040 (1.0)

- .050 (1.27)
- .156 ± .025 (3.96 ± .64)

- Fits .051 (1.3) Min. Dia. Hole
- RIGHT ANGLE DIP SOLDER (RA, SA)

- .225 (5.71)
- .137 (RT) (3.48)
- .137 (RX) (3.48)

- .425 (RY) (10.8)
- .225 (RU) (10.4)
- .408 (RP)

- .200 (5.08)

- Fits .051 (1.3) Min. Dia. Hole
- SINGLE/NARROW DIP SOLDER (RT, RK, RY)
- WIDE DIP SOLDER (RX, RU, RP)

- .225 (5.71)

- Material Thickness
- (SE) .007 (.18)
- (RE) .014 (.36)

- ALTERRATE EYELET SHAPE
- Accepts 3-22 AWG Wires

Mounting Style

- .125 Dia. Hole (3.17)
- #4-40NC-2B Thd.
- .116 (2.95) Dia. Hole (Cl. for #4 Screw)
- Ears Removed
- .125 (3.17) Dia. Hole

- CLEARANCE HOLE (H)
- THREADED INSERT (I)
- FLOATING BOBBIN (F)
- NO MOUNTING EARS (N)
- SIDE MOUNTING (S)
28 Position with Center Barrier
36 & 43 Positions with Reverse Contact Identification
and Shorter Card Slot Length

Part Number Coding

See page 35 for additional modifications.

MODIFICATIONS
-S37 = Reverse Contact ID & Shorter Card Slot Length
-S92 = Center Barrier Molded in Card Slot

MOUNTING STYLE
H = Clearance Hole
N = No Mounting Ears
S = Side Mounting
I = Threaded Insert
F = Floating Bobbin

TERMINATION TYPE
RA = .125 Right Angle Dip Solder
RP = .200 x .408 Dip Solder
SA = Long Right Angle Dip Solder
SX = .110 (.279) Centered Dip Solder
RT = Single/.140 x .137 Dip Solder
SU = .210 (5.33) Centered Dip Solder
RK = Single/.140 x .225 Dip Solder
SE = .007 (.18) Thick Eyelet .140 x .225
RY = .140 x .425 Dip Solder
RE = .014 (.36) Thick Eyelet .140 x .225
RX = .200 x .137 Dip Solder
RU = .200 x .225 Dip Solder

READOUT
D = Dual
S = Single (Available with Overall Plating
and RT, RK, RE, RZ Termination Only)
H = Half Loaded

Dimensions
Dimensions in ( ) are in millimeters, all others are in inches. Tolerances with Ryton Insulator material may vary slightly due to shrinkage differential; consult factory.

FOR 28 CONTACT POSITIONS

FOR 36 & 43 CONTACT POSITIONS

Contact Markings
(Lengths G, I, O & Q Not Used)
1 2 3 .... 26 27 28
A B C ....... D E F
FOR 28 POSITIONS

Contact Markings
(Lengths G, I, O & Q Not Used)
1 2 .... 36 .... 43
A B ....... R .... T
FOR 36 & 43 POSITIONS

For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZM28DRTH-S92).

MULTI BUS I

For 28 CONTACT POSITIONS

.265 Insertion Depth
(6.73)

.025 (.64)

.156 (3.96) Typ.
Refer to Termination Type

E Z M 43 D RT H -S37

MATERIALS (Insulator/Contact)
E = Valox/Phosphor Bronze (Standard)
H = Valox/Beryllium Copper
R = Ryton/Beryllium Copper
A = Ryton/Beryllium Copper
C = Ryton/Beryllium Nickel (Consult Factory)
N = PEEK/Beryllium Copper (Consult Factory)
W = PEEK/Beryllium Nickel (Consult Factory)
F = Ryton/Plinodal* (Consult Factory)

CONTACT FINISH
Contact Surface
Z = .000100 Tin
X = .000030 Gold
G = .000100 Tin
Y = .000030 Gold

Termination
.000100 Tin
.000050 Nickel
.000050 Underplate

CONTACT SLOT
M = .156 (3.96)

NUMBER OF CONTACT POSITIONS
(From table) 28 for barrier style and
36 or 43 for reverse contact identification

PART NUMBER

1. For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZM28DRTH-S92).
.100 (2.54 mm) contact centers

Features
- Breakable or cut to size
- Multiple modifications available
- First mate/last break grounding contacts available
- Contacts can be selectively loaded
- Temperature: -65°C to +125°C
- UL Flammability Rating: 94V-O
- Current Rating: 5 amperes

Materials
- Insulator Material: Black thermoplastic polyester
- Contact Material: CA510, phosphor bronze
- Plating: Gold or tin (See P/N code)

Readout

Termination Type

<table>
<thead>
<tr>
<th>P/N CODE</th>
<th>HEAD DIM.</th>
<th>TAIL DIM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>230 (5.84)</td>
<td>230 (5.84)</td>
</tr>
<tr>
<td>AB</td>
<td>230 (5.84)</td>
<td>320 (8.13)</td>
</tr>
<tr>
<td>AC</td>
<td>230 (5.84)</td>
<td>.120 (3.05)</td>
</tr>
<tr>
<td>AD</td>
<td>230 (5.84)</td>
<td>.220 (5.59)</td>
</tr>
<tr>
<td>AE</td>
<td>230 (5.84)</td>
<td>.520 (13.21)</td>
</tr>
<tr>
<td>AF</td>
<td>230 (5.84)</td>
<td>.620 (15.75)</td>
</tr>
<tr>
<td>AG</td>
<td>230 (5.84)</td>
<td>.720 (18.29)</td>
</tr>
<tr>
<td>AH</td>
<td>230 (5.84)</td>
<td>.820 (20.83)</td>
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<tr>
<td>FA</td>
<td>318 (8.08)</td>
<td>.120 (3.05)</td>
</tr>
<tr>
<td>FB</td>
<td>318 (8.08)</td>
<td>.220 (5.59)</td>
</tr>
<tr>
<td>FC</td>
<td>318 (8.08)</td>
<td>.320 (8.13)</td>
</tr>
<tr>
<td>FD</td>
<td>318 (8.08)</td>
<td>.420 (10.67)</td>
</tr>
<tr>
<td>FE</td>
<td>318 (8.08)</td>
<td>.520 (13.21)</td>
</tr>
<tr>
<td>ZA</td>
<td>120 (3.05)</td>
<td>.120 (3.05)</td>
</tr>
<tr>
<td>ZC</td>
<td>120 (3.05)</td>
<td>.260 (6.60)</td>
</tr>
<tr>
<td>ZD</td>
<td>120 (3.05)</td>
<td>.610 (15.49)</td>
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</table>

Termination Type

<table>
<thead>
<tr>
<th>P/N CODE</th>
<th>HEAD DIM.</th>
<th>TAIL DIM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>230 (5.84)</td>
<td>100 (2.54)</td>
</tr>
<tr>
<td>BB</td>
<td>230 (5.84)</td>
<td>200 (5.08)</td>
</tr>
<tr>
<td>BC</td>
<td>230 (5.84)</td>
<td>.300 (7.62)</td>
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<tr>
<td>BD</td>
<td>230 (5.84)</td>
<td>.400 (10.16)</td>
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<tr>
<td>BE</td>
<td>230 (5.84)</td>
<td>.500 (12.70)</td>
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<tr>
<td>BF†</td>
<td>230 (5.84)</td>
<td>.600 (12.24)</td>
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<tr>
<td>BG†</td>
<td>230 (5.84)</td>
<td>.700 (17.78)</td>
</tr>
<tr>
<td>GA</td>
<td>318 (8.08)</td>
<td>.100 (2.54)</td>
</tr>
<tr>
<td>GC†</td>
<td>318 (8.08)</td>
<td>.200 (5.08)</td>
</tr>
<tr>
<td>GD†</td>
<td>318 (8.08)</td>
<td>.300 (7.62)</td>
</tr>
<tr>
<td>GF†</td>
<td>318 (8.08)</td>
<td>.400 (10.16)</td>
</tr>
</tbody>
</table>

†Consult factory for availability in dual readout.
.025" Square Post Headers  
PZC Series (.100" x .100" Grid)

Part Number Coding

**SERIES**  
P = .025 Sq. Post Head

**CONTACT FINISH**

<table>
<thead>
<tr>
<th>Head Surface</th>
<th>Tail Surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z = .000010 Gold</td>
<td>.000100 Tin</td>
</tr>
<tr>
<td>X = .000030 Gold</td>
<td>.000100 Tin</td>
</tr>
<tr>
<td>G = .000100 Gold</td>
<td>.000005 Gold</td>
</tr>
<tr>
<td>T = .000100 Tin</td>
<td>.000100 Tin</td>
</tr>
</tbody>
</table>

**CONTACT CENTERS**

| C = .100 (2.54) |
| J = .150 (Consult Factory) |

**NUMBER OF POSITIONS**

| 01 thru 36 |
| (e.g. 32 Dual = 64 contacts) |

**MODIFICATIONS**  
(Consult Factory)  
Omit for Standard MOUNTING STYLE  
N = Standard  
R = Retent Lead (Consult Factory)

**TERMINATION TYPE**  
AA, AB, AC, AD, AE, AF, AG, AH,  
FA, FB, FC, FD, FE,  
BA, BB, BC, BD, BE, BF, GA, GB, GC, GD,  
ZA, ZC, ZD, Per Termination Type Page 30

**READOUT**  
S = Single  
D = Dual

---

Dimensions  
(Straight Tail Shown)

**SINGLE READOUT**

**DUAL READOUT**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NUMBER OF CONTACTS ( A )</th>
<th>OVERALL LENGTH ( A )</th>
</tr>
</thead>
<tbody>
<tr>
<td>PZC01 N</td>
<td>1/2</td>
<td>.100 (2.54)</td>
</tr>
<tr>
<td>PZC02 N</td>
<td>2/4</td>
<td>.200 (5.08)</td>
</tr>
<tr>
<td>PZC03 N</td>
<td>3/6</td>
<td>.300 (7.62)</td>
</tr>
<tr>
<td>PZC04 N</td>
<td>4/8</td>
<td>.400 (10.16)</td>
</tr>
<tr>
<td>PZC05 N</td>
<td>5/10</td>
<td>.500 (12.70)</td>
</tr>
<tr>
<td>PZC06 N</td>
<td>6/12</td>
<td>.600 (15.24)</td>
</tr>
<tr>
<td>PZC07 N</td>
<td>7/14</td>
<td>.700 (17.78)</td>
</tr>
<tr>
<td>PZC08 N</td>
<td>8/16</td>
<td>.800 (20.32)</td>
</tr>
<tr>
<td>PZC09 N</td>
<td>9/18</td>
<td>.900 (22.86)</td>
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<tr>
<td>PZC10 N</td>
<td>10/20</td>
<td>1.00 (25.40)</td>
</tr>
<tr>
<td>PZC11 N</td>
<td>11/22</td>
<td>1.10 (27.94)</td>
</tr>
<tr>
<td>PZC12 N</td>
<td>12/24</td>
<td>1.20 (30.48)</td>
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<td>PZC13 N</td>
<td>13/26</td>
<td>1.30 (33.02)</td>
</tr>
<tr>
<td>PZC14 N</td>
<td>14/28</td>
<td>1.40 (35.56)</td>
</tr>
<tr>
<td>PZC15 N</td>
<td>15/30</td>
<td>1.50 (38.10)</td>
</tr>
<tr>
<td>PZC16 N</td>
<td>16/32</td>
<td>1.60 (40.64)</td>
</tr>
<tr>
<td>PZC17 N</td>
<td>17/34</td>
<td>1.70 (43.18)</td>
</tr>
<tr>
<td>PZC18 N</td>
<td>18/36</td>
<td>1.80 (45.72)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NUMBER OF CONTACTS ( A )</th>
<th>OVERALL LENGTH ( A )</th>
</tr>
</thead>
<tbody>
<tr>
<td>PZC19 N</td>
<td>19/38</td>
<td>1.90 (48.26)</td>
</tr>
<tr>
<td>PZC20 N</td>
<td>20/40</td>
<td>2.00 (50.80)</td>
</tr>
<tr>
<td>PZC21 N</td>
<td>21/42</td>
<td>2.10 (53.44)</td>
</tr>
<tr>
<td>PZC22 N</td>
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<td>2.20 (55.88)</td>
</tr>
<tr>
<td>PZC23 N</td>
<td>23/46</td>
<td>2.30 (58.52)</td>
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<tr>
<td>PZC24 N</td>
<td>24/48</td>
<td>2.40 (60.96)</td>
</tr>
<tr>
<td>PZC25 N</td>
<td>25/50</td>
<td>2.50 (63.50)</td>
</tr>
<tr>
<td>PZC26 N</td>
<td>26/52</td>
<td>2.60 (66.04)</td>
</tr>
<tr>
<td>PZC27 N</td>
<td>27/54</td>
<td>2.70 (68.58)</td>
</tr>
<tr>
<td>PZC28 N</td>
<td>28/56</td>
<td>2.80 (71.12)</td>
</tr>
<tr>
<td>PZC29 N</td>
<td>29/58</td>
<td>2.90 (73.66)</td>
</tr>
<tr>
<td>PZC30 N</td>
<td>30/60</td>
<td>3.00 (76.20)</td>
</tr>
<tr>
<td>PZC31 N</td>
<td>31/62</td>
<td>3.10 (78.74)</td>
</tr>
<tr>
<td>PZC32 N</td>
<td>32/64</td>
<td>3.20 (81.28)</td>
</tr>
<tr>
<td>PZC33 N</td>
<td>33/66</td>
<td>3.30 (83.82)</td>
</tr>
<tr>
<td>PZC34 N</td>
<td>34/68</td>
<td>3.40 (86.36)</td>
</tr>
<tr>
<td>PZC35 N</td>
<td>35/70</td>
<td>3.50 (88.90)</td>
</tr>
<tr>
<td>PZC36 N</td>
<td>36/72</td>
<td>3.60 (91.44)</td>
</tr>
</tbody>
</table>

---

For complete part number add readout and termination type from Part Number Coding (e.g. PZC18DAAN).
.109 (2.77 mm) contact centers

Features

- All plastic, right angle, female receptacle.
- 9, 15, 25 and 37 positions.
- Standard footprint.
- Selective plating with 10 or 30 micro-inches of gold.
- Large cavity lead-in designed for blind mating.

General Specifications

MATERIALS

**Insulator:** Black, glass filled thermoplastic polyester Valox UL94V-0.
**Contacts:** Phosphor Bronze.

ELECTRICAL

- **Insulation Resistance:** 5000 Megaohms.
- **Dielectric Withstanding Voltage:** 1500 VAC minimum.
- **Current Rating:** 5 Amperes.
- **Contact Resistance:** 10 milliohms maximum at rated current.

ENVIRONMENTAL

- **Solvent Resistance:** Perchloroethylene, Freon 113, Freon 11, Trichloroethylene.
- **Operating Temperature:** −65°C to +125°C.

Mounting Style

**H** — Standard Mounting

.125 Dia. Clearance Hole

**I** — Threaded Insert

**X** — Threaded Standoff
D-Subminiature Connectors

Part Number Coding

D-SUBMINIATURE CONNECTOR

CONTACT FINISH
Contact Surface
Z = .000010 Gold .000100 Tin
X = .000030 Gold .000100 Tin

CONTACT CENTERS
F = .109

NUMBER OF CONTACTS
09, 15, 25, 27

MODIFICATION
(omit for Standard)

MOUNTING STYLE*
H = .125 Hole
I = Threaded Insert
X = Threaded Standoff

TERMINATION TYPE
DA = Right Angle

INSULATOR CONFIGURATION
P = All Plastic  M = Metal Shell

* Consult Factory For Availability Of Mounting Styles Not Listed

Dimensions

Part Number 1 | NUMBER OF CONTACTS | A  | B  | C  | D  | E  | INCHES | MILLIMETERS
---|---|---|---|---|---|---|---|---
DZF09PDA__ | 9  | .436 | .624 | .646 | .984 | 1.224 | 11.07  | 15.85 | 16.41 | 24.99 | 31.09
DZF15PDA__ | 15 | .763 | .952 | .974 | 1.312 | 1.552 | 19.38  | 24.18 | 24.74 | 33.22 | 39.42
DZF25PDA__ | 25 | 1.308 | 1.492 | 1.514 | 1.852 | 2.092 | 33.22  | 37.90 | 38.46 | 47.04 | 53.14
DZF37PDA__ | 37 | 1.962 | 2.140 | 2.162 | 2.500 | 2.740 | 49.83  | 54.36 | 54.91 | 63.50 | 69.60

1 For complete part number add mounting style from Part Number Coding (e.g. DZF09PDAH)
**PC Computer and PC Bus Edgecards**

**Features**
- Hi-Rel hairpin bellows contact (full loop bellows contact on request)
- Retention feature holds edgecard to .062" PC Board prior to soldering (for thicker board on request)
- 18 & 31 positions molded together as 49 position with card slot barrier
- Tin plated terminal post for good solderability
- .015" × .025" tail cross section fits .035" hole
- Full body standoff at each end of connector
- Black insulator (blue available on request)
- Wire wrap, card extender, right angle, other variations available on request
- CSA and UL recognized

**Materials**
- Insulator material: Black thermoplastic polyester
- Contact material: phosphor bronze
- Plating: 10 or 30 mil gold on contact surface
  100 mil tin on termination

**Dimensions**

**Parts Table**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Positions/Contacts</th>
<th>Retention Feature</th>
<th>Fits Board Hole Size</th>
<th>Card Slot Barrier</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZC18DCWN-S371</td>
<td>18/36</td>
<td>NO</td>
<td>.035</td>
<td>NO</td>
<td>1.700</td>
<td>43.18</td>
</tr>
<tr>
<td>EZC18DCWN-S524</td>
<td>18/36</td>
<td>YES</td>
<td>.043</td>
<td>NO</td>
<td>1.700</td>
<td>48.26</td>
</tr>
<tr>
<td>EZC31DCWN-S371</td>
<td>31/62</td>
<td>NO</td>
<td>.035</td>
<td>NO</td>
<td>3.000</td>
<td>76.20</td>
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<tr>
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<td>YES</td>
<td>.043</td>
<td>NO</td>
<td>3.000</td>
<td>81.28</td>
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<tr>
<td>EZC49DCWN-S420</td>
<td>49/98</td>
<td>NO</td>
<td>.035</td>
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<td>5.100</td>
<td>129.54</td>
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<td>EZC49DCWN-S518</td>
<td>49/98</td>
<td>YES</td>
<td>.043</td>
<td>YES</td>
<td>5.100</td>
<td>134.62</td>
</tr>
</tbody>
</table>

For .000030 Gold on Contact Surface replace "Z" with "X" in Part Number (e.g. EXC49DCWN-S518)
Modifications

Consult factory for further details.

(S243) CENTER CRIMP
(S288) CARD EXTENDER FOR .032 TO .250 THICK PCB
(S563) CARD EXTENDER FOR .032 TO .250 THICK PCB
(S580) .100 ROW
(S870) .140 ROW

(M30) SURFACE MOUNT
(M13) CARD EXTENDER
(M25) TWO INSULATOR

CONTACT POINT .140 TO .170 FROM BOTTOM OF CARDSLOT (FIRST MAKE/LAST BREAK)
BREAK BEFORE MAKE (SHORTING CONTACT)

OLIVE WITH OR WITHOUT STANDOFF CONTACT ID IN WHITE ON SIDE CENTER STANDOFF .150 STANDOFF (S 555)
(S396) SLOTTED EARS

OPEN CARDSLOT
(HIGH PROFILE KEY)

COUNTER SINK

DAUGHTERBOARD

K MOTHERBOARD

Sullins ELECTRONICS CORPORATION
Post Office Box 189 • San Marcos, California 92079-0189 U.S.A. • (619) 744-0125

FAX (619) 744-6081
Sullins

EDGECARDS
HEADERS

Tel       619 - 744 - 0125
Fax       619 - 744 - 6081

Post Office Box 189 • San Marcos, California 92079-0189 • U.S.A.