Elco Multi-Line Module Connectors are 2.0mm “Hard-Metric” connectors and accessories which are in compliance with IEC 1076-4-101. This spec has been selected as the CompactPCI bus architecture by the PCI Industrial Computer Manufacturers Group (PICMG). Elco Multi-Line Module Connectors have been specifically designed as P1-5/J1-5 connectors for CompactPCI bus applications and P0/J0 in the VME64 Extension format. Elco also offers full custom connector services to meet the specific needs of given markets and systems.

THE ELCO ADVANTAGE

- Modular connector system with 2.0mm grid for CompactPCI backplane and daughter cards.
- High density, high speed impedance matched connector system.
- 5 signal rows plus two shield rows for optimum performance.
- 12 standard contacts provide 3 level sequential mating for either front or rear “Hot Swapping” applications.
- Elco’s original VariPin™ compliant press-fit technology provides reliable solderless terminations.
- Full custom pin layout services.

APPROVAL SPECIFICATIONS

Elco Multi-Line Module connector system meets the requirements of IEC 1076-4-101.

PICMG®

The Multi-Line Module connector system meets the requirements of the CompactPCI specification as defined by the PCI Industrial Computer Manufacturers Group.

TELCORDIA (FORMERLY BELLCORE)

Elco Multi-Line Module Connectors are designed to meet the requirements of Telcordia Technologies (formerly BellCore), GR-1217-Core.

ISO9001

Elco Multi-Line Module Connectors are manufactured in a fully approved ISO9001 facility.

UL E53664

Approved by Underwriters Laboratories. File No. E53664

Elco Connectors is an executive member of the PCI Industrial Computer Manufacturers Group, (PICMG), a consortium of Industrial Computer Product vendors with the mission of designing specifications for PCI-based systems and boards to be used in industrial and telecommunications applications. For more information on PICMG visit their website at www.picmg.org
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Elco Multi-Line Module Series Overview

J 1/ J 4 TYPE A RIGHT ANGLE FEMALE (SERIES 8071)
- With or Without Shield
- 110 Signal Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Daughter Card Applications
- See page 10

J 2/ J 5 TYPE B RIGHT ANGLE FEMALE (SERIES 8071)
- With or Without Shield
- 110 Signal Contacts
- Length 43.9mm
- Daughter Card Applications
- See page 11

J 3 TYPE B RIGHT ANGLE FEMALE (P0 OF VME64 EXTENSION) (SERIES 8071)
- With or Without Shield
- 95 Signal Contacts
- Length 37.9mm
- Daughter Card Applications
- See page 12

J 4 TYPE A RIGHT ANGLE FEMALE WITH SPLIT SHIELD (COMPUTER TELEPHONY) (SERIES 8071)
- 90 Signal Contacts
- Length 49.9mm
- Pre-Alignment and Polarizing Guide
- Daughter Card Applications
- See page 13

TYPE B RIGHT ANGLE FEMALE (SERIES 8071)
- With or Without Shield
- 125 Signal Contacts
- Length 49.9mm
- Daughter Card Applications
- See page 14
Elco Multi-Line Module Series
Overview

TYPE C RIGHT ANGLE FEMALE
(SERIES 8071)
• With or Without Shield
• 55 Signal Contacts
• Length 24.95mm
• Daughter Card Applications
• Pre-alignment Guide Pins
• See page 15

P1/P4 TYPE A VERTICAL MALE FEED-TO
(SERIES 8071)
• 110 Signal Contacts
• 44 Ground Contacts
• Length 49.9mm
• Pre-alignment and Polarizing Guide
• Backplane Applications
• See page 16

P2/P5 TYPE B VERTICAL MALE FEED-TO
(SERIES 8071)
• 110 Signal Contacts
• 44 Ground Contacts
• Length 43.9mm
• Backplane Applications
• See page 17

P1 TYPE A VERTICAL MALE FEED-TO
(HOT SWAP) (SERIES 8071)
• 110 Signal Contacts
• 44 Ground Contacts
• Length 49.9mm
• Pre-Alignment and Polarizing Guide
• Backplane Applications
• See page 18

P3 TYPE B VERTICAL MALE FEED-TO
(JO OF VME64 EXTENSION SPEC)
(SERIES 8071)
• 95 Signal Contacts
• 38 Ground Contacts
• Length 37.9mm
• Backplane Applications
• See page 19
Elco Multi-Line Module Series Overview

P4 TYPE A VERTICAL MALE FEED-TO (COMPUTER TELEPHONY) (SERIES 8071)
- 84 Signal Contacts
- 16 Ground Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Backplane Applications
- See page 20

TYPE B VERTICAL MALE FEED-TO (SERIES 8071)
- 125 Signal Contacts
- 50 Ground Contacts
- Length 49.9mm
- Backplane Applications
- See page 21

TYPE C VERTICAL MALE FEED-TO (SERIES 8071)
- 55 Signal Contacts
- 22 Ground Contacts
- Length 24.95mm
- Backplane Applications
- See page 22

TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)
- 125 Signal Contacts
- 50 Ground Contacts
- Length 49.9mm
- Midplane Applications
- See page 23

P2/P5 TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)
- 110 Signal Contacts
- 44 Ground Contacts
- Length 43.9mm
- Midplane Applications
- See page 24
Elco Multi-Line Module Series Overview

**P3 TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)**
- 95 Signal Contacts
- 38 Ground Contacts
- Length 37.9mm
- Midplane Applications
- See page 26

**P4 TYPE A VERTICAL MALE FEED-THRU (SERIES 8071)**
- 110 Signal Contacts
- 44 Ground Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Midplane Applications
- See page 28

**P5 TYPE B VERTICAL MALE FEED-THRU (COMPUTER TELEPHONY) (SERIES 8071)**
- 110 Signal Contacts
- 22 Ground Contacts
- Length 43.9mm
- Midplane Applications
- See page 29

**TYPE M EUROCARD POWER CONNECTOR (SERIES 8483/8485)**
- 7 Power Contacts
- 24 Signal Contacts
- Length 95mm
- Backplane Applications
- See page 30

**TYPE L VERTICAL MALE FEED-TO (SERIES 8074)**
- 6 Power Contact Cavities
- Pre-Alignment and Polarizing Guide
- Length 49.9mm
- See page 31
Elco Multi-Line Module Series
Overview

**TYPE M VERTICAL MALE FEED-TO (SERIES 8075)**
- 3 Power Contact Cavities
- 55 Signal Contacts
- Pre-Alignment and Polarizing Guide
- Length 49.9mm
- See page 32

**CODING KEYS (SERIES 8071)**
- 8 Male and Female Coding Keys
- For use in Type A Male and Female Connectors
- 4 Different Colors for Easy Visual Identification
- Easy Snap Installation
- See page 34

**TYPE A RIGHT ANGLE MALE FOR DAUGHTER CARD (SERIES 8072)**
- 110 Signal Contacts
- Length 49.9mm
- Pre-Alignment and Polarizing Guide
- Daughter Card Applications
- See page 35

**TYPE B RIGHT ANGLE MALE FOR DAUGHTER CARD (SERIES 8072)**
- 95, 110, 125 Signal Contacts
- Lengths 37.9 to 49.9mm
- Daughter Card Applications
- See page 36

**RP4 SHROUD, TYPE A & C FOR BACKPLANES (SERIES 8071)**
- 77 & 154 Cavities
- Three Different Base Thicknesses
- Backplane Applications
- See page 37
RP2, 3, 5 SHROUD, TYPE B (SERIES 8071)
- 133, 154, 175 Cavities
- Three Different Base Thicknesses
- Backplane Applications
- See page 38

POWER PACK CONNECTORS (SERIES 2525)
- High Current Distribution in Backplane Applications
- Three Different Base Thicknesses
- VARIPIN™ Press-Fit Design
- Several Different Connection Versions Available
- See page 39

5 POSITION MODULAR INPUT/OUTPUT CABLE (SERIES 8073)
- 5 Signal +2 Ground Positions
- 2.0mm Pitch
- Modular Design
- Snap Together Modules to Increase Number of Circuits
- See page 40
Sequential Mating and Contact Length

The Elco Multi-Line Module connector system can provide 12 standard contacts in any configuration to provide 3 level sequential mating and either front or rear mating. 3 level length is in 1.5mm increments to ensure sequential mating (as first mate, last break) and (last mate, first break).

MIDPLANE AND HORIZONTAL MATING APPLICATIONS

- 3 pin lengths in the front or rear allow for sequential mating in midplane applications.
- Rear shrouds are used in conjunction with the long pin lengths K-W (see chart above).
- Three shroud thicknesses allow for a full range of backplane thicknesses from 1.6mm to 6.0mm.
Elco Multi-Line Module Connectors
For CompactPCI

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Spacing</td>
<td>2.0mm grid</td>
</tr>
<tr>
<td>Current Rating</td>
<td>1.0A/contact</td>
</tr>
<tr>
<td>Voltage Rating</td>
<td>250V maximum</td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage</td>
<td>750VAC rms/minute</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>10^4M Ω minimum</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td>20m Ω maximum</td>
</tr>
<tr>
<td>Insertion Force</td>
<td>n x 0.75 N maximum</td>
</tr>
<tr>
<td>Separation Force</td>
<td>n x 0.15 N minimum</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55° to +125°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-10° to +60°C</td>
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</tbody>
</table>

MATERIAL

<table>
<thead>
<tr>
<th>Component</th>
<th>Plug</th>
<th>Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Phosphor Bronze</td>
<td>Phosphor Bronze</td>
</tr>
<tr>
<td>Insulator</td>
<td>Plug PBT 30% Glass Filled, UL 94V-0 Rated</td>
<td>Receptacle PBT 30% Glass Filled, UL 94V-0 Rated</td>
</tr>
<tr>
<td>Shroud</td>
<td>PBT 30% Glass Filled, UL 94V-0 Rated</td>
<td>PBT 30% Glass Filled, UL 94V-0 Rated</td>
</tr>
<tr>
<td>Code Key</td>
<td>Glass Filled Polyester, UL 94V-0 Rated</td>
<td></td>
</tr>
<tr>
<td>Ground Return Shields</td>
<td>Phosphor Bronze</td>
<td></td>
</tr>
</tbody>
</table>

FINISH

Nickel under plating 1.2-2.0µm for all Finish Codes

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Class</th>
<th>Mating Cycle</th>
<th>Mating Area</th>
<th>Other Area</th>
<th>Press-fit Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>833/515</td>
<td>1</td>
<td>500</td>
<td>Pd/Ni 0.65µm min. Gold 0.1µm min.</td>
<td>Gold 0.05µm</td>
<td>Tin/Lead 1.2-2.0µm</td>
</tr>
</tbody>
</table>

COMPLIANT PINS

Elco Multi-Line Module Connectors utilize the original Elco VARIPIN™ press-fit technology for reliable solderless applications.

BOARD SPECIFICATIONS

<table>
<thead>
<tr>
<th>P.C. Board Thickness</th>
<th>Drilled Hole</th>
<th>Copper Plate</th>
<th>Tin Plate</th>
<th>Plated Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4-4.2mm</td>
<td>0.7±0.025</td>
<td>25-50µm</td>
<td>4-10µm</td>
<td>0.6±0.05</td>
</tr>
</tbody>
</table>
J 1/J 4 Type A Right Angle Female for Daughter Cards
Series 8071

- 110 signal contacts in 5 rows of 25 positions
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Available with bottom pegs for secure P.C. mounting
- This connector can be used by itself or in conjunction with Style B or C connectors
- Used in positions J 1/J 4 of CompactPCI specification (Daughter Card)

27 8071 110 001 833 = Type A Right Angle Female without top shield, with pegs
27 8071 110 002 833 = Type A Right Angle Female without top shield, without pegs
27 8071 110 011 833 = Type A Right Angle Female with top shield, with pegs
27 8071 110 012 833 = Type A Right Angle Female with top shield, without pegs

Contact Elco for availability of alternate platings

RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)
J 2/J 5 Type B Right Angle Female for Daughter Cards
Series 8071

- 110 signal contacts in 5 rows of 22 positions
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Daughter card applications
- Fills positions J 2 and J 5 of the CompactPCI specification
- This connector should be used in conjunction with a Type A style to ensure proper mating alignment

27 8071 110 000 833 = Type B 110 Pin Right Angle Female without upper shield
27 8071 110 010 833 = Type B 110 Pin Right Angle Female with upper shield
Contact Elco for availability of alternate platings

RECOMMENDED P.C. BOARD LAYOUT
(COMponent SIDE)
**J3 Type B Right Angle Female for Daughter Cards**

**Series 8071**

- 95 signal contacts in 5 rows of 19 positions
- Designed for gas tight press-fit installation
- Supplied with or without a upper ground return shield
- Daughter card applications
- This connector should be used in conjunction with a Type A style to ensure proper mating alignment
- This connector fills position J3 of the CompactPCI specification
- This connector also fills position P0 of the VME64 extension specification

**Part Numbers**

- **27 8071 095 000 833** = Type B 95 Pin Right Angle Female without upper shield
- **27 8071 095 010 833** = Type B 95 Pin Right Angle Female with upper shield

Contact Elco for availability of alternate platings
J 4 Type A Right Angle Female with Split Shield (Computer Telephony)
Series 8071

- 90 signal contacts in 5 rows of 25 positions
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Supplied with upper ground return shield
- Available with bottom mounted pegs for secure P.C. mounting
- This connector can be used by itself or in conjunction with Style B or C connectors
- Daughter card applications
- Used in position J4 of the CompactPCI Computer Telephony specification

27 8071 090 501 833 = Type A Right Angle Female with upper shield, with peg
27 8071 090 502 833 = Type A Right Angle Female with upper shield, without peg
Contact Elco for availability of alternate platings

RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)
Type B Right Angle Female for Daughter Cards
Series 8071

- 125 signal contacts in 5 rows of 25 positions
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Daughter card applications
- This connector should be used in conjunction with a Type A style to ensure proper mating alignment

27 8071 125 000 833 = Type B 125 Pin Right Angle Receptacle without upper shield
27 8071 125 010 833 = Type B 125 Pin Right Angle Receptacle with upper shield

Contact Elco for availability of alternate platings
Type C Right Angle Female for Daughter Cards
Series 8071

- 55 signal contacts in 5 rows of 11 positions
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Available with bottom pegs for secure P.C. board mounting
- Daughter card applications
- This connector is designed for end positions only

27 8071 055 001 833 = Type C 55 Pin Right Angle Female without upper shield, with peg
27 8071 055 002 833 = Type C 55 Pin Right Angle Female without upper shield, without peg
27 8071 055 011 833 = Type C 55 Pin Right Angle Female with upper shield, with peg
27 8071 055 012 833 = Type C 55 Pin Right Angle Female with upper shield, without peg

Contact Elco for availability of alternate platings

RECOMMENDED P.C. BOARD LAYOUT

COMPONENT SIDE
P1/P4 Type A Vertical Male Feed-To for Backplanes
Series 8071

- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 25 positions
- Center cavity with polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installations
- Twelve different contact styles are available for customizing connector to exact specifications
- Used in positions P1 and P4 of the CompactPCI specification
- For custom contact configurations complete the form on page 42

17 8071 154 001 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Std cPCI
Contact Elco for availability of alternate platings
P2/P5 Type B Vertical Male Feed-To for Backplanes
Series 8071

- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 22 positions
- Designed for gas tight press-fit installation
- Used in position P2 and P5 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 42

17 8071 154 000 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L2,3 cPCI
17 8071 154 503 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L1,3 cPCI
Contact Elco for availability of alternate platings

154 ø0.6 ±0.05

2.0 ±0.017 TYP.

42.0 ±0.1

RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)
P1 Type A Vertical Male Feed-To for Backplanes (Hot Swap)
Series 8071

- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 25 positions
- Center cavity with polarizing option (uses 3 positions)
- See page 34 for keying options
- Used in position P1 of the CompactPCI Hot Swap specification
- Designed for gas tight press-fit installation
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 42

17 8071 154 508 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Hot Swap
Contact Elco for availability of alternate platings

CONTACT DETAIL

RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)
**P3 Type B Vertical Male Feed-To for Backplanes**

*Series 8071*

- 95 signal contacts and 38 ground shield contacts in 5+2 rows of 19 positions
- Designed for gas tight press-fit installation
- This connector fills position P3 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43
- This connector also fills position J0 of the VME64 Extension Specification

17 8071 133 000 833 = P3 95 signal contacts and 38 ground contacts, Short Tail, L2,3 cPCI
17 8071 133 503 833 = P3 95 signal contacts and 38 ground contacts, Short Tail, L1,3 cPCI

Contact Elco for availability of alternate plating.
**P4 Type A Vertical Male Feed-To for Backplanes** *(Computer Telephony)*

**Series 8071**

- 84 signal contacts and 16 ground shield contacts in 5 rows of 25 positions selectively loaded
- Center cavity with polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Fills position P4 of the CompactPCI Computer Telephony specification
- This connector has a bottom mounted peg to help secure the connector to the printed circuit board

**17 8071 100 511 833** = P4 Type A 84 signal contacts and 16 ground contacts, Short Tail (Computer Telephony)

Contact Elco for availability of alternate platings

---

**CONTACTS LAYOUT (CONNECTOR MATING SIDE SHOWN)**

**RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)**

**CONTACT DETAIL**
Type B Vertical Male Feed-To for Backplanes
Series 8071

- 125 signal contacts and 50 ground shield contacts in 5+2 rows of 25 positions
- Designed for gas tight press-fit installation
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43

17 8071 175 000 833 = 125 signal contacts and 50 ground contacts, Short Tail L2,3 cPCI
17 8071 175 503 833 = 125 signal contacts and 50 ground contacts, Short Tail L1,3 cPCI
Contact Elco for availability of alternate platings
Type C Vertical Male Feed-To for Backplanes
Series 8071

• 55 signal contacts and 22 ground shield contacts in 5+2 rows of 11 positions
• Designed for gas tight press-fit installation
• This connector is designed for end positions only
• Twelve different contact styles are available for customizing connector to exact specifications
• For custom contact configurations complete the form on page 43

17 8071 077 509 833 = 55 signal contacts and 22 ground contacts, Short Tail, L1,3
17 8071 077 512 833 = 55 signal contacts and 22 ground contacts, Short Tail, L2,3
Contact Elco for availability of alternate platings
Type B Vertical Male Feed-Thru for Backplanes
Series 8071

- 125 signal contacts and 50 ground shield contacts in 5+2 rows of 25 positions
- Designed for gas tight press-fit installation
- Twelve different contact styles for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43

17 8071 175 003 515 = 125 signal contacts and 50 ground contacts, Long Tail L2,3 cPCI
17 8071 175 015 515 = 125 signal contacts and 50 ground contacts, Long Tail L1,3 cPCI
Contact Elco for availability of alternate platings
P2/P5 Type B Vertical Male Feed-Thru for Backplanes
Series 8071

- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 22 positions
- Designed for gas tight press-fit installation
- Fills positions P2 and P5 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 42

17 8071 154 003 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L2,3 cPCI
17 8071 154 004 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI
17 8071 154 015 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI

Contact Elco for availability of alternate platings
## P2/P5 Type B Vertical Male Feed-Thru for Backplanes
### Series 8071

<table>
<thead>
<tr>
<th>Variation Code</th>
<th>Side View</th>
<th>Pin Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>003 Long Tail, Std. L2, 3 P2/P5</td>
<td><img src="image1" alt="Side View" /></td>
<td><img src="image2" alt="Pin Loading" /></td>
</tr>
<tr>
<td>004 Long Tail, Std. L1, 3 P2/P5</td>
<td><img src="image3" alt="Side View" /></td>
<td><img src="image4" alt="Pin Loading" /></td>
</tr>
<tr>
<td>015 Long Tail, Std. L1, 3 P2/P5</td>
<td><img src="image5" alt="Side View" /></td>
<td><img src="image6" alt="Pin Loading" /></td>
</tr>
</tbody>
</table>
P3 Type B Vertical Male Feed-Thru for Backplanes
Series 8071

- 95 signal contacts and 38 ground shield contacts in 5+2 rows of 19 positions
- Designed for gas tight press-fit installation
- Fills position P3 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43

17 8071 133 003 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L2,3 cPCI
17 8071 133 004 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L1,3 cPCI
17 8071 133 015 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L1,3 cPCI

Contact Elco for availability of alternate platings
# P3 Type B Vertical Male Feed-Thru for Backplanes

## Series 8071

<table>
<thead>
<tr>
<th>Variation Code</th>
<th>Side View</th>
<th>Pin Loading</th>
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<tbody>
<tr>
<td>003</td>
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<td><img src="image2.png" alt="Pin Loading" /></td>
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<tr>
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<td>L2, 3</td>
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<td>P3</td>
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<td>004</td>
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<td><img src="image4.png" alt="Pin Loading" /></td>
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<td>P3</td>
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<td>P3</td>
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</table>
P4 Type A Vertical Male Feed-Thru for Backplanes
Series 8071

- 110 signal contacts and 44 ground shield contacts in 5 rows of 25 positions
- Center cavity with polarizing option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Fills position P4 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 42
- This connector has a bottom mounted peg to help secure the connector to the printed circuit board

17 8071 154 013 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L2,3 cPCI
17 8071 154 014 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L1,3 cPCI

Contact Elco for availability of alternate platings
P5 Type B Vertical Male Feed-Thru for Backplanes (Computer Telephony)
Series 8071

- 110 signal contacts and 22 ground shield contacts in 5+1 rows of 22 positions
- Designed for gas tight press-fit installation
- Fills position P5 of the CompactPCI Computer Telephony specification
- Twelve different contact styles are available for customizing connector to exact specifications

17 8071 132 016 515 = P5 110 signal contacts and 22 ground contacts, Long Tail (Computer Telephony)
Contact Elco for availability of alternate platings

CONTACT LAYOUT
(CONNECTOR SIDE SHOWN)

CONTACT DETAIL

RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)
Style M DIN EuroCard Power Connector
Series 8483/8485

- 7 power contacts
- 24 signal contacts
- Designed for gas tight press-fit installation
- Connector in accordance with DIN41612
- Contacts in accordance with DNB41626
- Male designed for daughter card applications
- Female designed for backplane applications
- Designed for CompactPCI 3V and 6V boards

59 8483 024 000 025 = Male, Right Angle, 7 Power and 24 Signal Contacts
59 8485 024 000 015 = Female, Vertical, 7 Power and 24 Signal Contacts
Type L Vertical Male for Backplanes
Series 8074

- 6 power contact cavities
- Center cavity with pre-alignment guides and polarizing option
- Supplied with locating pegs for secure P.C. board mounting
- Power contact is ordered separately

61 8074 006 001 007 = Type L 6 position power connector with polarizing key, (housing only)
Power Contact: P/N 71 8074 000 501 863 ordered separately

Recommended P.C. Board Layout

71 8074 000 501 863
80 8074 000 001 062
Type M Vertical Male Feed-To for Backplanes
Series 8075

- 3 power contact cavities
- 55 signal contacts
- Center cavity with pre-alignment guides and polarizing option
- Designed for gas tight press-fit installation
- Supplied with locating pegs for secure P.C. board mounting
- Power contact is ordered separately
- See page 31 for contact part number

17 8075 355 501 833 = Type M 3 position power connector with polarizing key, with 55 signal contacts
Contact Elco for availability of alternate platings

![Diagram of Type M Vertical Male Feed-To for Backplanes Series 8075](image_url)

**CONTACT LAYOUT (CONNECTOR MATING SIDE SHOWN)**

**RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)**
### MALE CONNECTORS

<table>
<thead>
<tr>
<th>Type</th>
<th>Positions</th>
<th>Length</th>
<th>Part #</th>
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<tbody>
<tr>
<td>Type A male</td>
<td>22</td>
<td>49.9mm</td>
<td>66 3015 344 000 000</td>
</tr>
<tr>
<td>Type B male</td>
<td>19</td>
<td>37.9mm</td>
<td>66 3015 347 000 000</td>
</tr>
<tr>
<td>Type B male</td>
<td>22</td>
<td>43.9mm</td>
<td>66 3015 346 000 000</td>
</tr>
<tr>
<td>Type B male</td>
<td>25</td>
<td>49.9mm</td>
<td>66 3015 345 000 000</td>
</tr>
<tr>
<td>Type C male</td>
<td>11</td>
<td>22.3mm</td>
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</table>

### FEMALE CONNECTORS (With Upper Shield)

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<th>Type</th>
<th>Positions</th>
<th>Length</th>
<th>Part #</th>
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</thead>
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<tr>
<td>Type A female</td>
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<td></td>
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<td>Type B female</td>
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<tr>
<td>Type B female</td>
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<tr>
<td>Type B female</td>
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<tr>
<td>Type C female</td>
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</table>

### BASE BLOCK

- All: 66 3015 349 000 000

### PRESS FIT MACHINE

- Daughter: 36 1004 028 000 000

### HAND PRESS

- 36 1004 030 000 000

### PLUG PRESS

- Backplane: 36 1004 029 000 000

### RECEPTACLE REPAIR JIG

- 06 1002 063 000 000

### INSTALLATION TOOL FOR CODING KEYS

- 06 1002 066 000 000
CompactPCI supports two types of voltages (3.3V and 5.0V). Coding keys are used to prevent damage by inserting the wrong boards into a system. Keys are snapped into the center polarization cavity. 3.3V cards are coded cadmium yellow and 5.0V are brilliant blue.

### MALE

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Color</th>
<th>Rail Number</th>
<th>Code No.</th>
<th>Key Part Number</th>
<th>Plug/Receptacle</th>
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</thead>
<tbody>
<tr>
<td>101003</td>
<td>Cadmium Yellow</td>
<td>1021</td>
<td>3456</td>
<td>81 0071 000 101003</td>
<td>Plug 3.3V C-PCI</td>
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<tr>
<td>102006</td>
<td>Brilliant Blue</td>
<td>5007</td>
<td>1567</td>
<td>81 0071 000 102006</td>
<td>Plug 5.0V C-PCI</td>
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<tr>
<td>103008</td>
<td>Pastel Orange</td>
<td>2003</td>
<td>3568</td>
<td>81 0071 000 103008</td>
<td>Plug</td>
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<tr>
<td>104002</td>
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<td>3018</td>
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### FEMALE

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<th>Code No.</th>
<th>Key Part Number</th>
<th>Plug/Receptacle</th>
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<td>3018</td>
<td>3567</td>
<td>82 0071 000 104002</td>
<td>Receptacle</td>
</tr>
</tbody>
</table>
Type A Right Angle Male for Daughter Cards
Series 8072

- 110 signal contacts
- Designed for gas tight press-fit installation
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- This connector can be used by itself or in conjunction with style B connectors
- See page 34 for keying options

17 8072 110 001 833 = Type A Right Angle Male
Contact Elco for availability of alternate platings

110 signal contacts
- Designed for gas tight press-fit installation
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- This connector can be used by itself or in conjunction with style B connectors
- See page 34 for keying options

17 8072 110 001 833 = Type A Right Angle Male
Contact Elco for availability of alternate platings
Type B Right Angle Male for Daughter Cards
Series 8072

- 95, 110, 125 signal contacts
- Designed for gas tight press-fit installation
- This connector should be used in conjunction with a Type A style to ensure proper alignment
- Daughter card applications

17 8072 095 000 833 = Type B Right Angle Male, 5x19 Positions
17 8072 110 000 833 = Type B Right Angle Male, 5x22 Positions
17 8072 125 000 833 = Type B Right Angle Male, 5x25 Positions
Contact Elco for availability of alternate platings

P/N | A   | B   |
---|-----|-----|
17 8072 095 000 833 | 36.0 | 37.9 |
17 8072 110 000 833 | 42.0 | 43.9 |
17 8072 125 000 833 | 48.0 | 49.9 |

Contact Elco for availability of alternate platings
RP4 Shroud, Type A & C for Backplanes
Series 8071

- Used in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Enables rear input/output or midplane applications with daughter cards or cable assemblies
- No spacer required
- Three heights available to accommodate different board thicknesses

61 8071 154 301 007 = RP4 Type A 154 cavities (22 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm
61 8071 154 311 007 = RP4 Type A 154 cavities (22 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm
61 8071 154 321 007 = RP4 Type A 154 cavities (22 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm
61 8071 077 301 007 = Type C 77 cavities (11 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm
61 8071 077 311 007 = Type C 77 cavities (11 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm
61 8071 077 321 007 = Type C 77 cavities (11 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm
RP2, 3, 5 Shroud, Type B for Backplanes
Series 8071

- Used in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Enables rear Input/Output or midplane applications with daughter cards or cable assemblies
- No spacer required
- Three heights available to accommodate different board thicknesses

61 8071 133 300 007 = RP3 Type B 133 cavities (19 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm
61 8071 133 310 007 = RP3 Type B 133 cavities (19 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm
61 8071 133 320 007 = RP3 Type B 133 cavities (19 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm
61 8071 154 300 007 = RP2, 5 Type B 154 cavities (22 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm
61 8071 154 310 007 = RP2, 5 Type B 154 cavities (22 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm
61 8071 154 320 007 = RP2, 5 Type B 154 cavities (22 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm
61 8071 175 300 007 = Type B 175 cavities (25 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm
61 8071 175 310 007 = Type B 175 cavities (25 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm
61 8071 175 320 007 = Type B 175 cavities (25 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm

<table>
<thead>
<tr>
<th>P/N</th>
<th>A</th>
<th>B</th>
<th>#OF POSITIONS</th>
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<td>61 8071 154 XXX 007</td>
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<td>61 8071 175 XXX 007</td>
<td>48.0</td>
<td>49.9</td>
<td>25</td>
</tr>
</tbody>
</table>
Power Pack Connectors
Series 2525

- Efficient system for high current distribution in backplane applications
- Press-in element for power connection for P.C. boards
- VARIPIN™ press-fit design
- 30A current rating
- Several different connection versions available
- Suitable for circuit boards with .063 (1.6mm) minimum thickness
- Plating SnPb over Ni

37 2525 0213 01 489 = M 4 thread, with flat tabs, with hardware
37 2525 0213 02 489 = M 4 thread, without tabs, with hardware
37 2525 0213 03 489 = M 4 thread, with 45 degree tabs
67 2525 0213 01 489 = M 4 thread, with flat tabs, without hardware
67 2525 0213 02 489 = M 4 thread, without tabs, without hardware
67 2525 0213 03 489 = M 4 thread, with 45 degree tabs

Connection
Screw, washer, and keyed washer are included in the 37-set.
5 Position Modular Input/Output Cable
Series 8073

- 2.0mm pitch 5 position +2 ground position double ended modular assembly
- Modular snap-together feature allows for stacking into assemblies of up to 25 to interface with 55, 110, and 125 pin male connectors
- Outside shields mate with rows z and f rows of 2mm hard-metric male connectors
- 28 AWG
- 1.0A, 250V max
- 500mm to 2500mm long
- Custom lengths available

97 8073 002 050 001 = 5 position cable assembly, double ended, 500mm long
97 8073 002 100 001 = 5 position cable assembly, double ended, 1000mm long
97 8073 002 150 001 = 5 position cable assembly, double ended, 1500mm long
97 8073 002 200 001 = 5 position cable assembly, double ended, 2000mm long
97 8073 002 250 001 = 5 position cable assembly, double ended, 2500mm long

Contact Elco for availability of alternate lengths

WIRING PATTERN

<table>
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<th>B SIDE</th>
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<td>e Row</td>
<td>Signal 4</td>
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Cable Structure
## Part Number Index

**Elco Multi-Line Module Connector**

### 2mm Hard-Metric for CompactPCI

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ELCO Connectors
2mm Hard-Metric Custom Design Worksheet

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For special loading configuration for your application, use this form. Select the grid diagram that applies to the type connector style you need. Fill in each block with the pin style (from the table) that you need. Please leave unloaded positions or rows blank.

**TYPE A**

[type A diagram]

**TYPE B (22 POSITIONS)**

[type B diagram]

**CONTACT STYLES**

[type contact styles diagram]
For special loading configuration for your application, use this form. Select the grid diagram that applies to the type connector style you need. Fill in each block with the pin style (from the table) that you need. Please leave unloaded positions or rows blank.

**TYPE B (19 POSITIONS)**

**TYPE C**

**TYPE B (25 POSITIONS)**

**TYPE M**

**CONTACT STYLES**
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- **PCMCIA**
- **Press-fit Connectors**
- **Torson, 1.27mm (.050”) Board to Board Connectors**
- **Varicon®**
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**Elco - World Class Connections**

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<th>ASIA-PACIFIC</th>
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