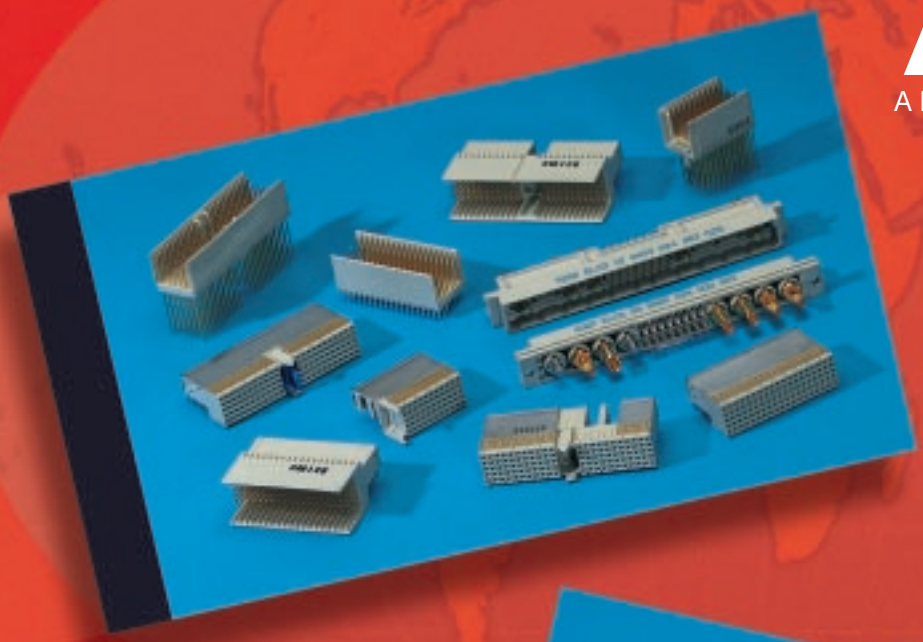
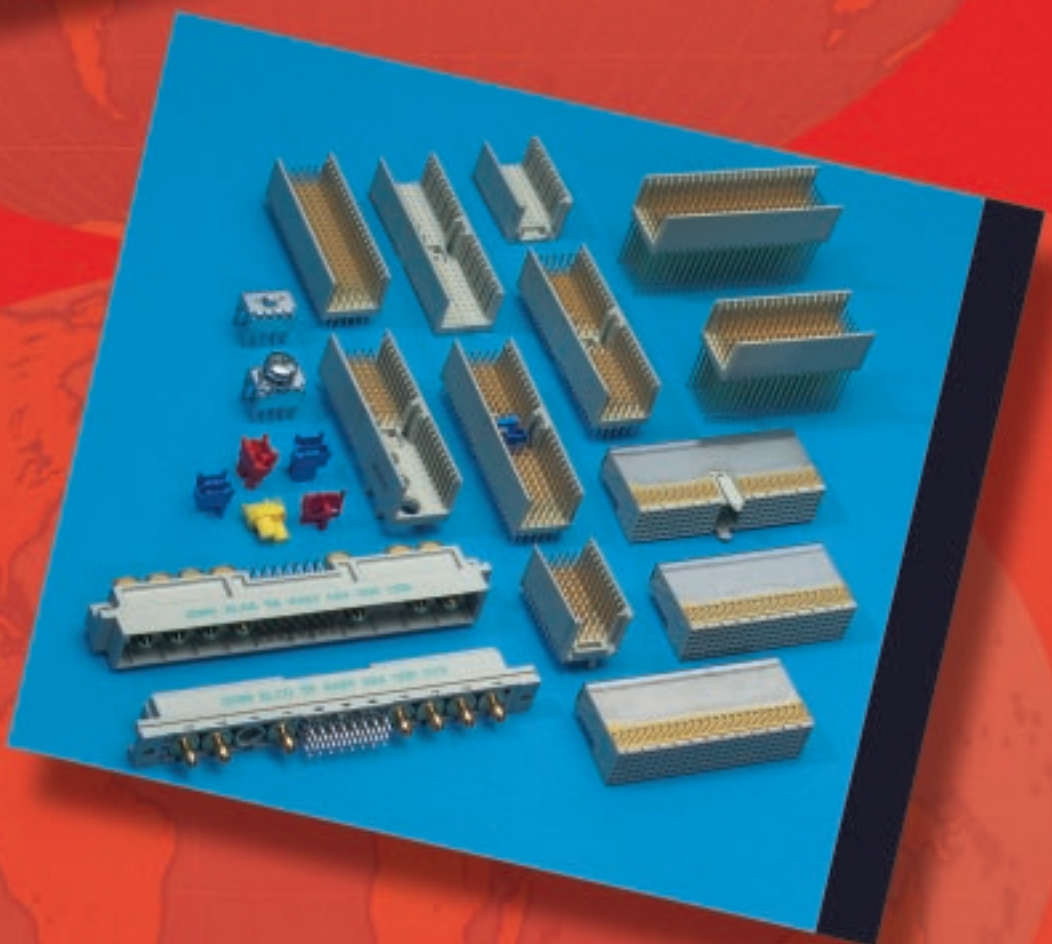
AVX
A KYOCERA GROUP COMPANY





ELCO
2mm Hard Metric Connectors For CompactPCI® Applications

Introduction

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

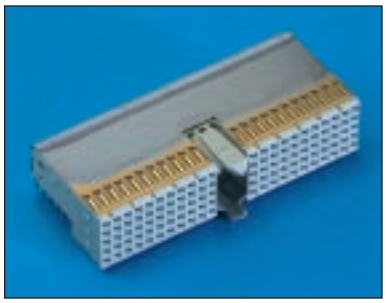
Approved by Underwriters Laboratories. File No. E53664

Executive Member

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

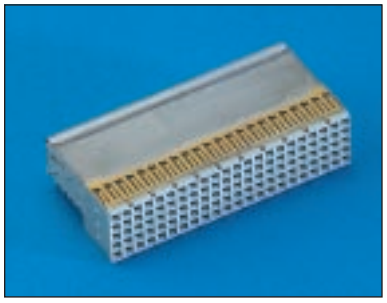
Contents

Elco Multi-Line Module Series Overview



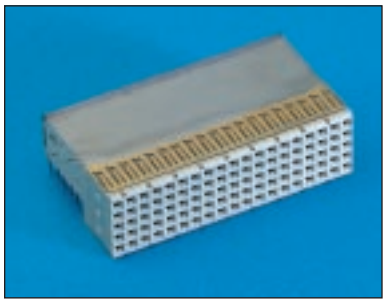
J1/J4 TYPE A RIGHT ANGLE FEMALE (SERIES 8071)

- With or Without Shield
- 110 Signal Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Daughter Card Applications
- See page 10



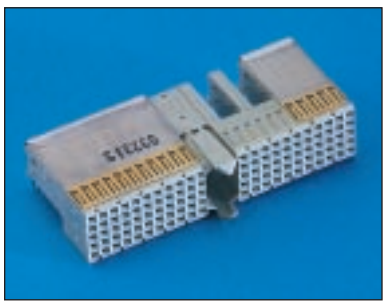
J2/J5 TYPE B RIGHT ANGLE FEMALE (SERIES 8071)

- With or Without Shield
- 110 Signal Contacts
- Length 43.9mm
- Daughter Card Applications
- See page 11



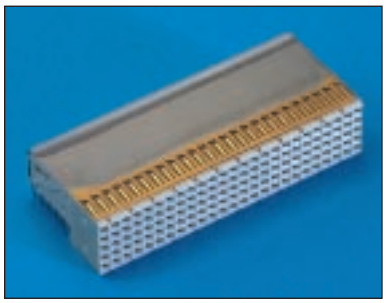
J3 TYPE B RIGHT ANGLE FEMALE (P0 OF VME64 EXTENSION) (SERIES 8071)

- With or Without Shield
- 95 Signal Contacts
- Length 37.9mm
- Daughter Card Applications
- See page 12



J4 TYPE A RIGHT ANGLE FEMALE WITH SPLIT SHIELD (COMPUTER TELEPHONY) (SERIES 8071)

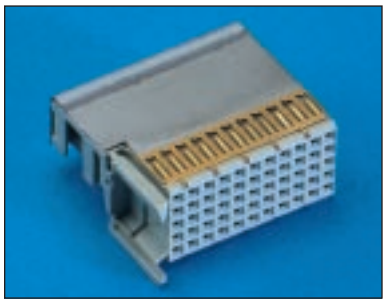
- 90 Signal Contacts
- Length 49.9mm
- Pre-Alignment and Polarizing Guide
- Daughter Card Applications
- See page 13



TYPE B RIGHT ANGLE FEMALE (SERIES 8071)

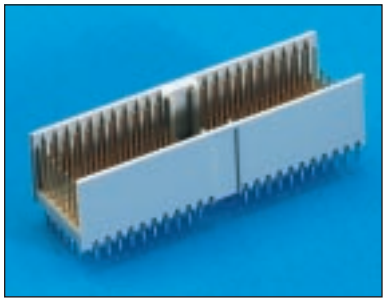
- With or Without Shield
- 125 Signal Contacts
- Length 49.9mm
- Daughter Card Applications
- See page 14

Elco Multi-Line Module Series Overview



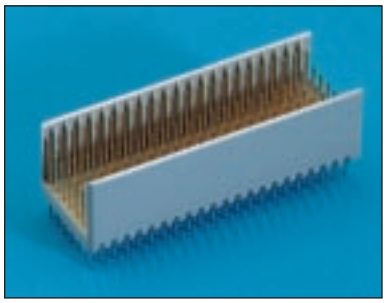
TYPE C RIGHT ANGLE FEMALE (SERIES 8071)

- With or Without Shield
- 55 Signal Contacts
- Length 24.95mm
- Daughter Card Applications
- Pre-alignment Guide Pins
- See page 15



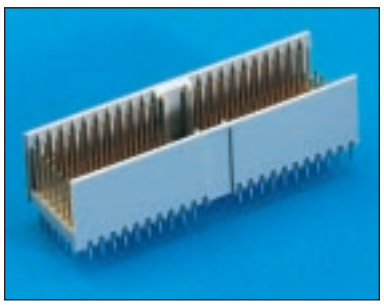
P1/P4 TYPE A VERTICAL MALE FEED-TO (SERIES 8071)

- 110 Signal Contacts
- 44 Ground Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Backplane Applications
- See page 16



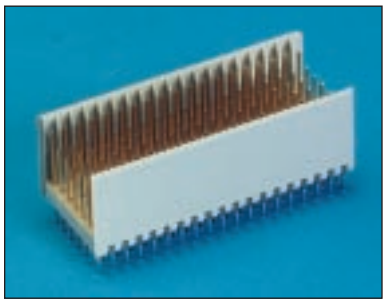
P2/P5 TYPE B VERTICAL MALE FEED-TO (SERIES 8071)

- 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)

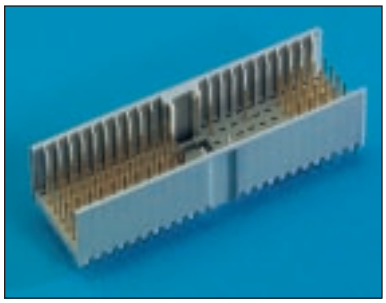
- 110 Signal Contacts
- 44 Ground Contacts
- Length 49.9mm
- Pre-Alignment and Polarizing Guide
- Backplane Applications
- See page 18



P3 TYPE B VERTICAL MALE FEED-TO (J0 OF VME64 EXTENSION SPEC) (SERIES 8071)

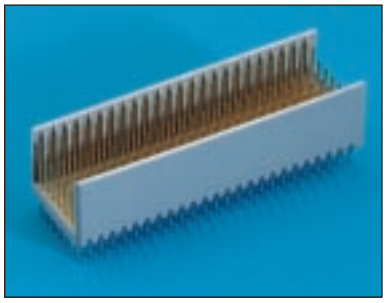
- 95 Signal Contacts
- 38 Ground Contacts
- Length 37.9mm
- Backplane Applications
- See page 19

Elco Multi-Line Module Series Overview



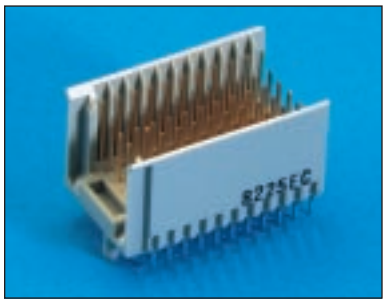
P4 TYPE A VERTICAL MALE FEED-TO (COMPUTER TELEPHONY) (SERIES 8071)

- 84 Signal Contacts
- 16 Ground Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Backplane Applications
- See page 20



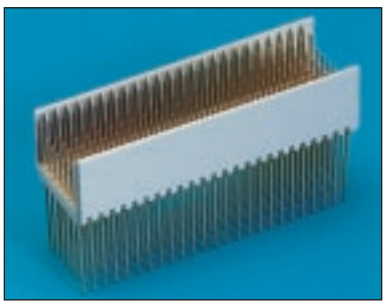
TYPE B VERTICAL MALE FEED-TO (SERIES 8071)

- 125 Signal Contacts
- 50 Ground Contacts
- Length 49.9mm
- Backplane Applications
- See page 21



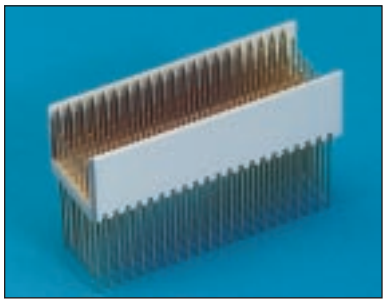
TYPE C VERTICAL MALE FEED-TO (SERIES 8071)

- 55 Signal Contacts
- 22 Ground Contacts
- Length 24.95mm
- Backplane Applications
- See page 22



TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)

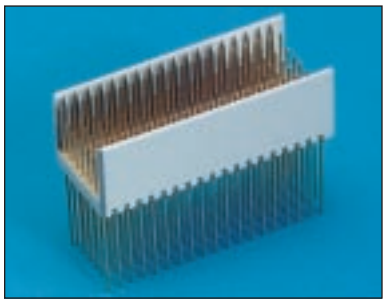
- 125 Signal Contacts
- 50 Ground Contacts
- Length 49.9mm
- Midplane Applications
- See page 23



P2/P5 TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)

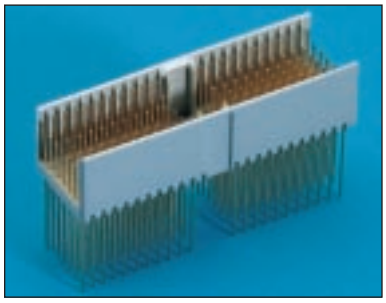
- 110 Signal Contacts
- 44 Ground Contacts
- Length 43.9mm
- Midplane Applications
- See page 24

Elco Multi-Line Module Series Overview



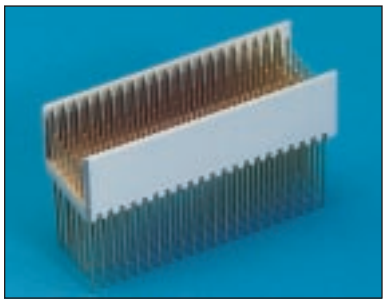
P3 TYPE B VERTICAL MALE FEED-THRU (SERIES 8071)

- 95 Signal Contacts
- 38 Ground Contacts
- Length 37.9mm
- Midplane Applications
- See page 26



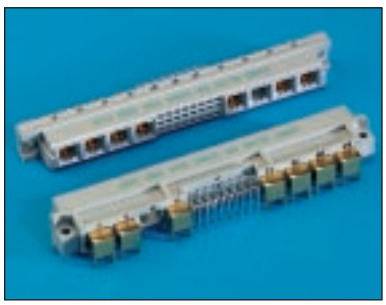
P4 TYPE A VERTICAL MALE FEED-THRU (SERIES 8071)

- 110 Signal Contacts
- 44 Ground Contacts
- Length 49.9mm
- Pre-alignment and Polarizing Guide
- Midplane Applications
- See page 28



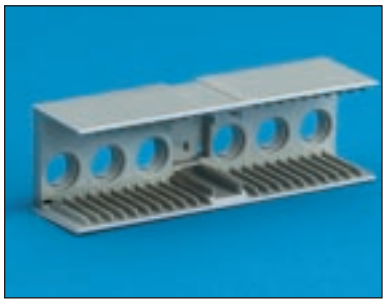
P5 TYPE B VERTICAL MALE FEED-THRU (COMPUTER TELEPHONY) (SERIES 8071)

- 110 Signal Contacts
- 22 Ground Contacts
- Length 43.9mm
- Midplane Applications
- See page 29



TYPE M EUROCARD POWER CONNECTOR (SERIES 8483/8485)

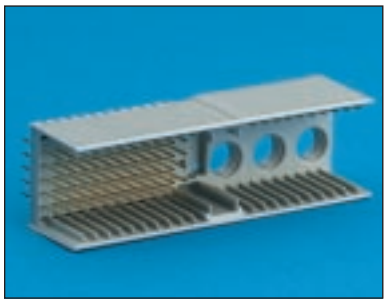
- 7 Power Contacts
- 24 Signal Contacts
- Length 95mm
- Backplane Applications
- See page 30



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

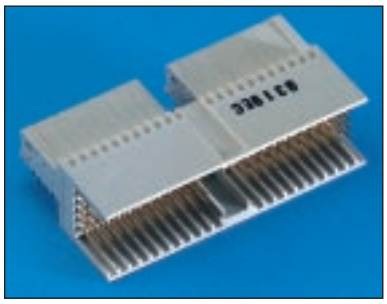


TYPE M VERTICAL MALE FEED-TO (SERIES 8075)

- 3 Power Contact Cavities
- 55 Signal Contacts
- Pre-Alignment and Polarizing Guide
- Length 49.9mm
- See page 32

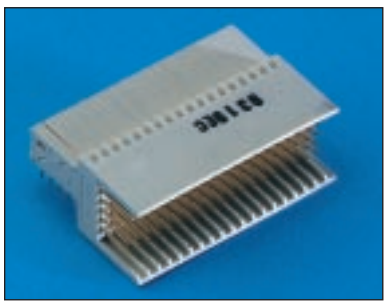
CODING KEYS (SERIES 8071)

- 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



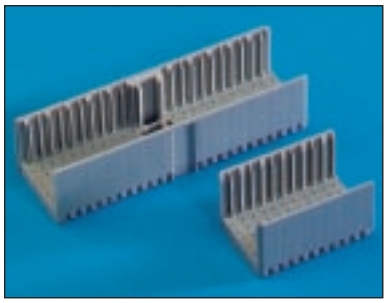
TYPE A RIGHT ANGLE MALE FOR DAUGHTER CARD (SERIES 8072)

- 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)

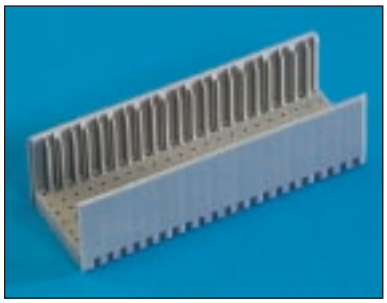
- 95, 110, 125 Signal Contacts
- Lengths 37.9 to 49.9mm
- Daughter Card Applications
- See page 36



RP4 SHROUD, TYPE A & C FOR BACKPLANES (SERIES 8071)

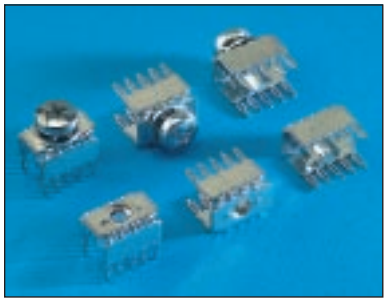
- 77 & 154 Cavities
- Three Different Base Thicknesses
- Backplane Applications
- See page 37

Elco Multi-Line Module Series Overview



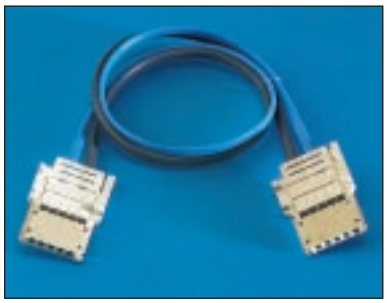
RP2, 3, 5 SHROUD, TYPE B (SERIES 8071)

- 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

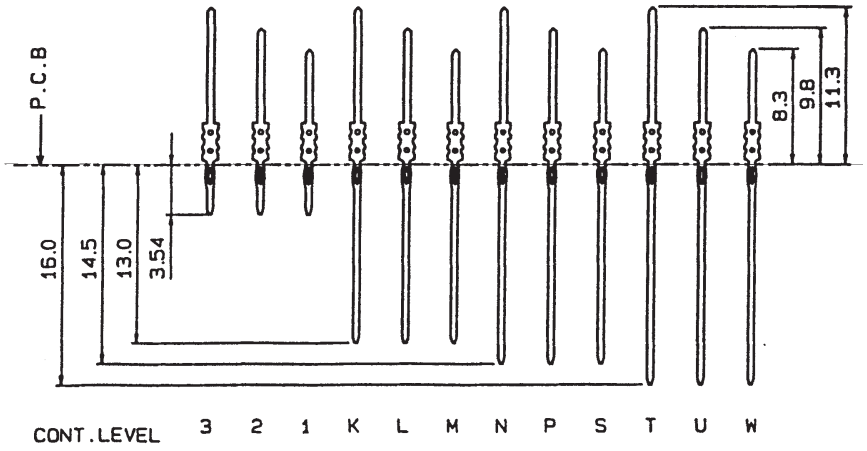


5 POSITION MODULAR INPUT/OUTPUT CABLE (SERIES 8073)

- 5 Signal +2 Ground Positions
- 2.0mm Pitch
- Modular Design
- Snap Together Modules to Increase Number of Circuits
- See page 40

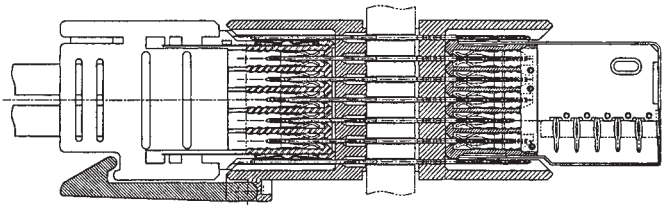
Sequential Mating and Contact Length

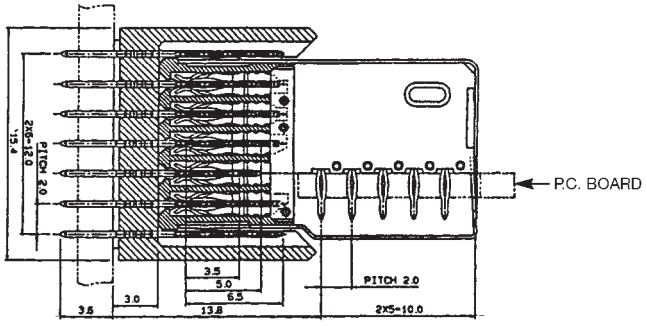
The Elco Multi-Line Module connector system can provide 12 standard contacts in any configuration to provide 3 level sequential mating and either front or rear mating. 3 level length is in 1.5mm increments to ensure sequential mating (as first mate, last break) and (last mate, first break).

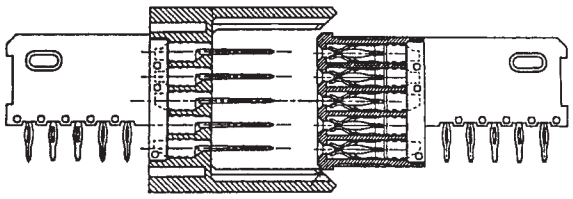


MIDPLANE AND HORIZONTAL MATING APPLICATIONS

- 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

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

MATERIAL

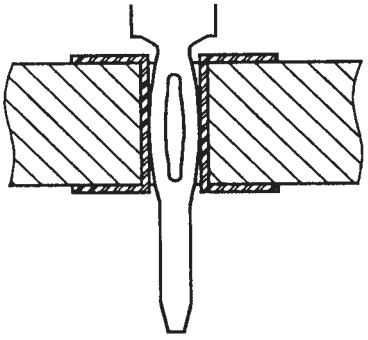
Contact	Plug	Phosphor Bronze
	Receptacle	Phosphor Bronze
Insulator	Plug	PBT 30% Glass Filled, UL 94V-0 Rated
	Receptacle	PBT 30% Glass Filled, UL 94V-0 Rated
Shroud		PBT 30% Glass Filled, UL 94V-0 Rated
Code Key		Glass Filled Polyester, UL 94V-0 Rated
Ground Return Shields		Phosphor Bronze

FINISH

Nickel under plating 1.2-2.0µm for all Finish Codes

Finish Code	Class	Mating Cycle	Mating Area	Other Area	Press-fit Area
833/515	1	500	Pd/Ni 0.65µm min. Gold 0.1µm min.	Gold 0.05µm	Tin/Lead 1.2-2.0um

COMPLIANT PINS



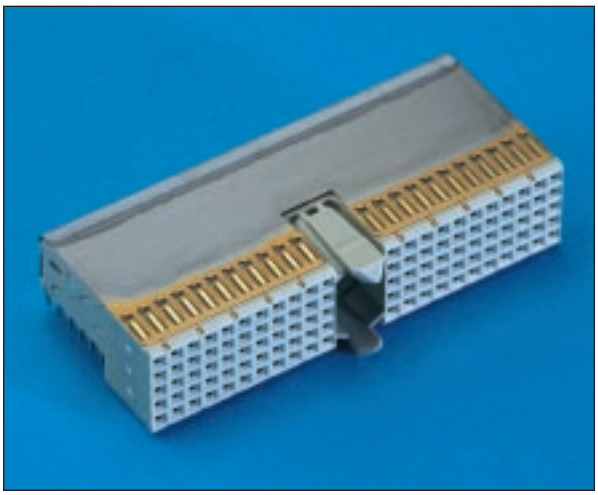
Elco Multi-Line Module Connectors utilize the original Elco VARIPIN™ press-fit technology for reliable solderless applications.

BOARD SPECIFICATIONS

P.C. Board Thickness	Drilled Hole	Copper Plate	Tin Plate	Plated Hole
1.4-4.2mm	0.7±0.025	25-50um	4-10um	0.6±0.05

J1/J4 Type A Right Angle Female for Daughter Cards

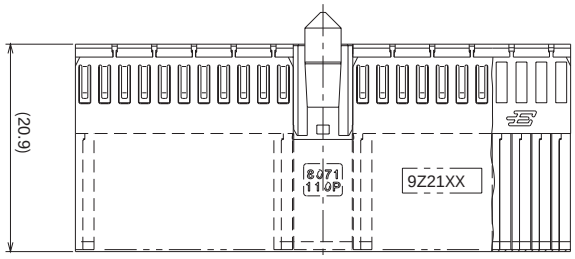
Series 8071

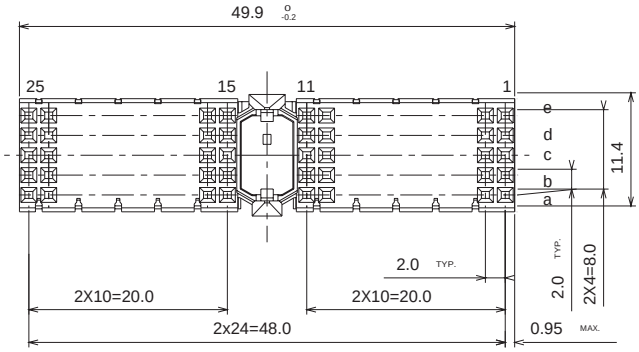


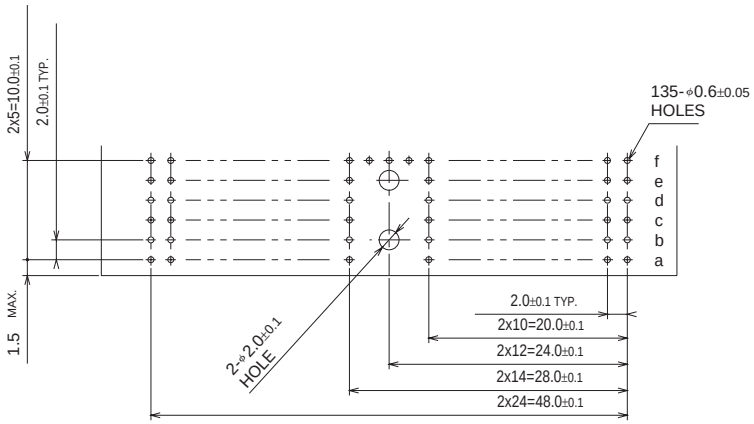
- 110 signal contacts in 5 rows of 25 positions
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Available with bottom pegs for secure P.C. mounting
- This connector can be used by itself or in conjunction with Style B or C connectors
- Used in positions J1/J4 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

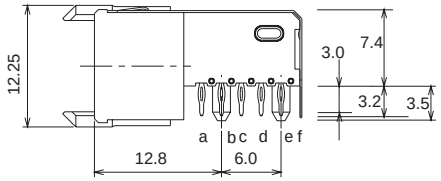
Contact Elco for availability of alternate platings







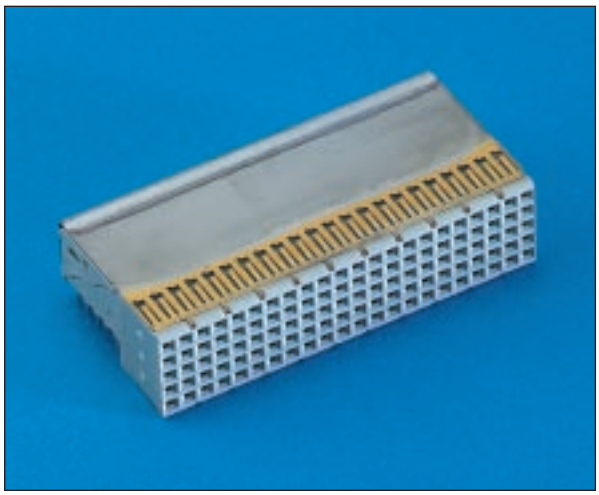
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



ELCO

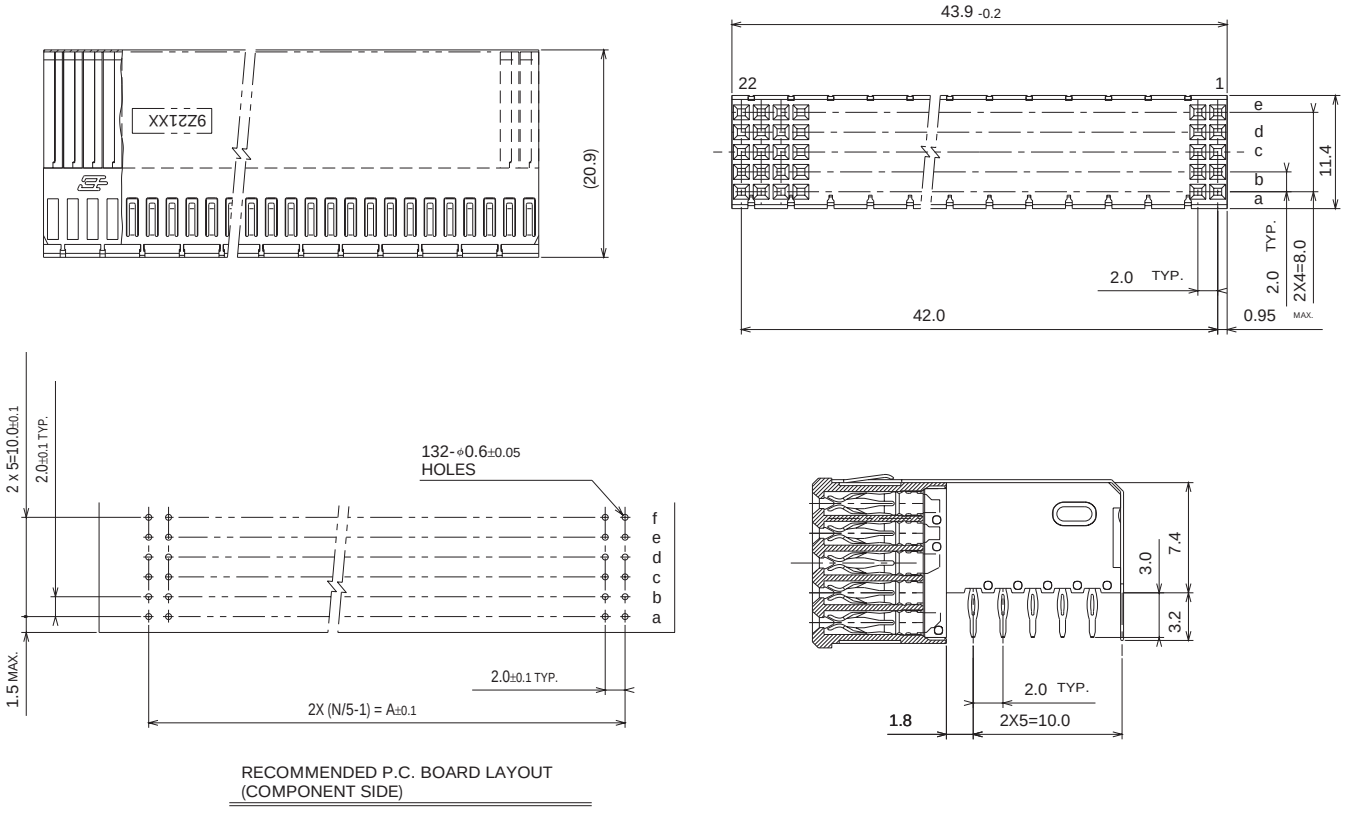
J2/J5 Type B Right Angle Female for Daughter Cards

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 J2 and J5 of the CompactPCI specification
- This connector should be used in conjunction with a Type A style to ensure proper mating alignment

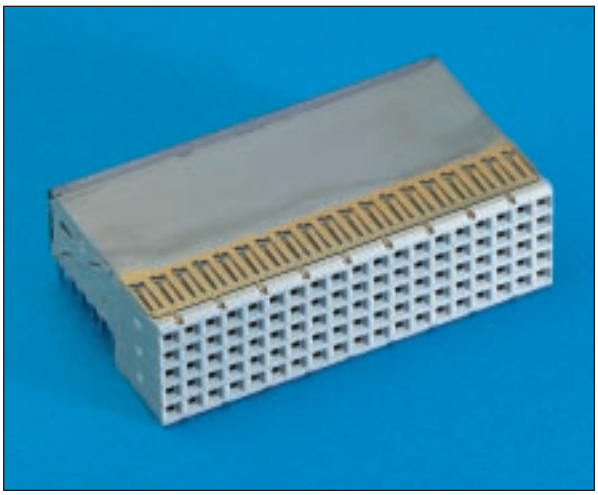
27 8071 110 000 833 = Type B 110 Pin Right Angle Female without upper shield
27 8071 110 010 833 = Type B 110 Pin Right Angle Female with upper shield
Contact Elco for availability of alternate platings



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

J3 Type B Right Angle Female for Daughter Cards

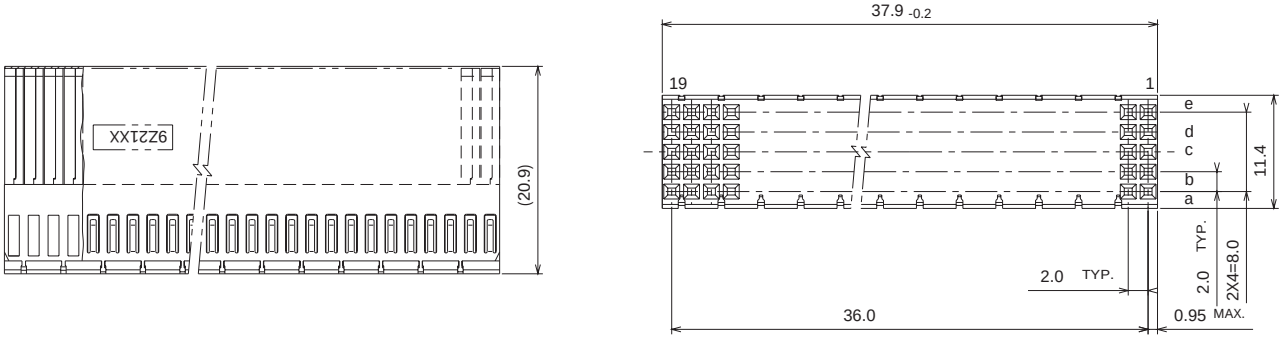
Series 8071

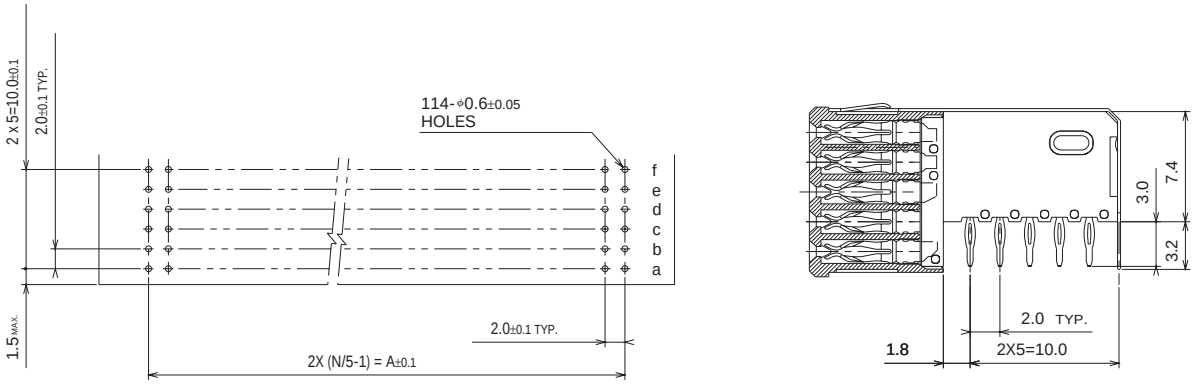


- 95 signal contacts in 5 rows of 19 positions
- Designed for gas tight press-fit installation
- Supplied with or without a upper ground return shield
- Daughter card applications
- This connector should be used in conjunction with a Type A style to ensure proper mating alignment
- This connector fills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

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



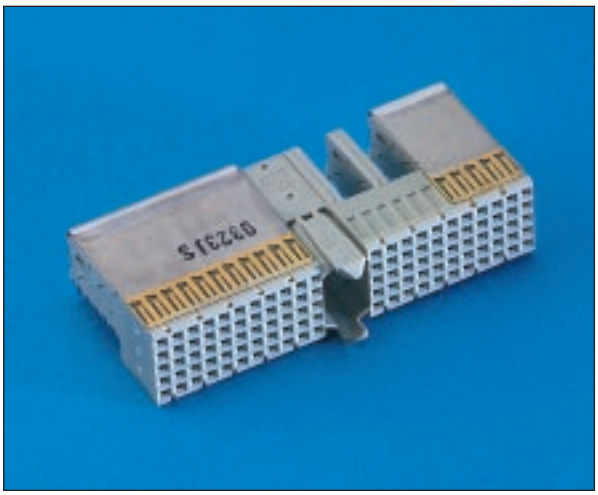


RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

ELCO

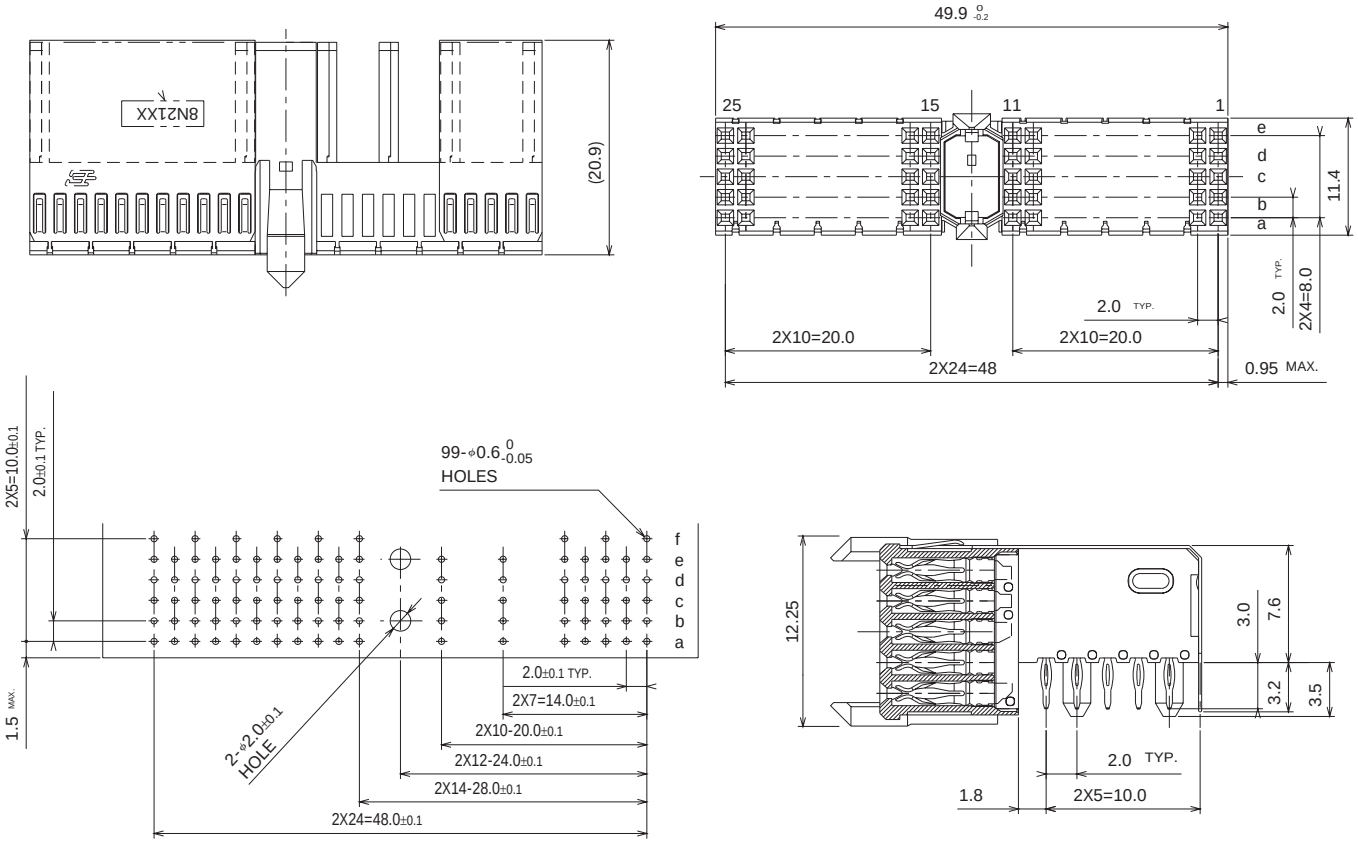
J4 Type A Right Angle Female with Split Shield (Computer Telephony)

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

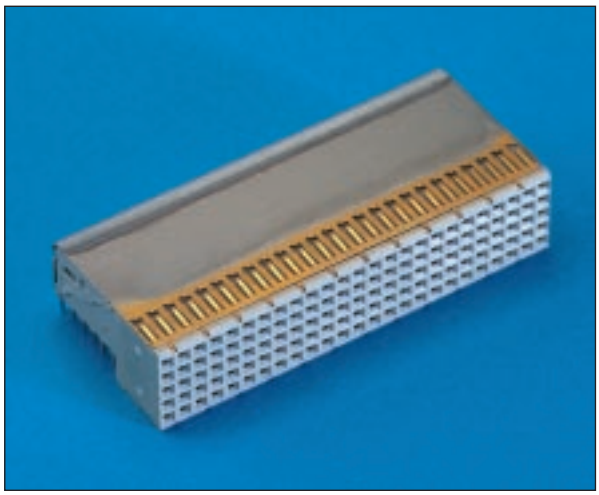
27 8071 090 501 833 = Type A Right Angle Female with upper shield, with peg
27 8071 090 502 833 = Type A Right Angle Female with upper shield, without peg
Contact Elco for availability of alternate platings



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

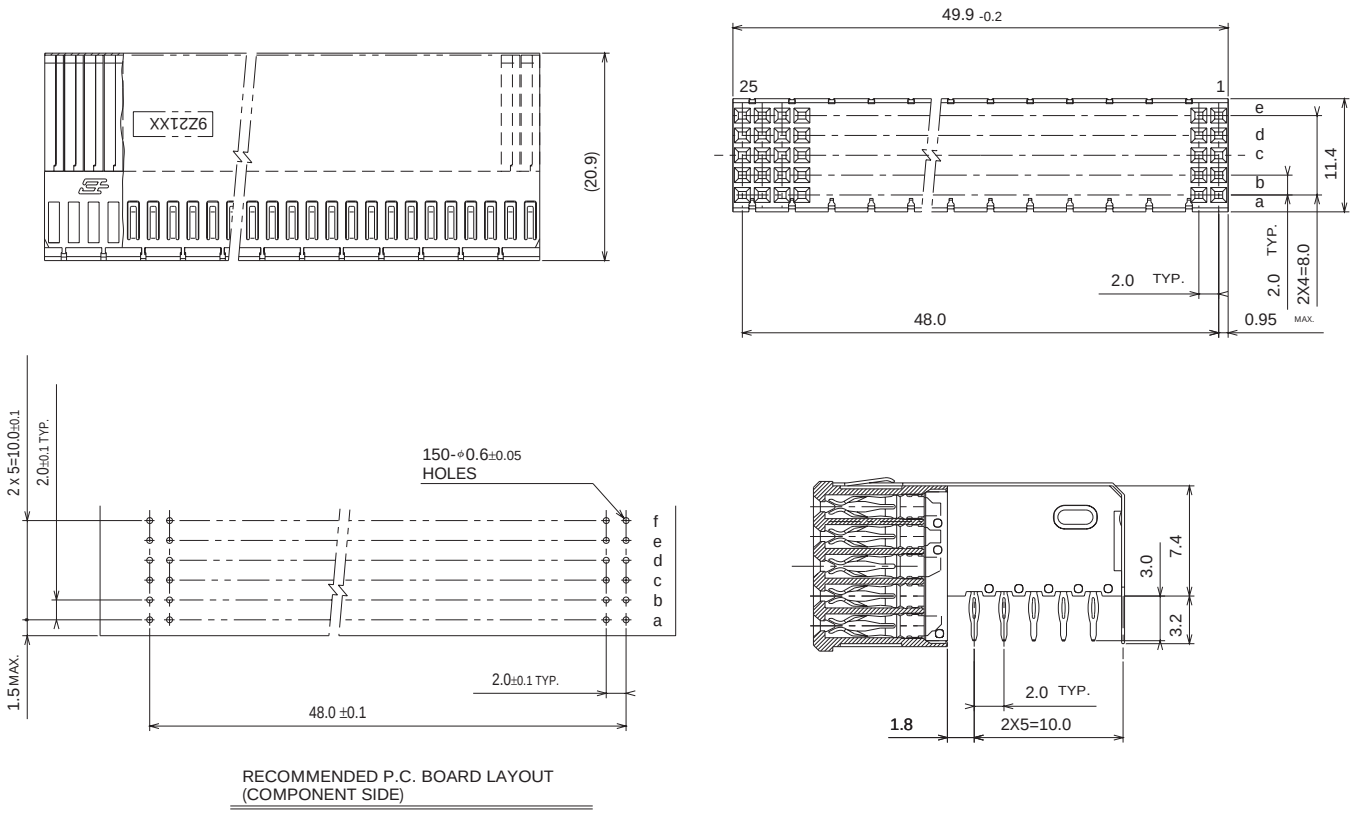
Type B Right Angle Female for Daughter Cards

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

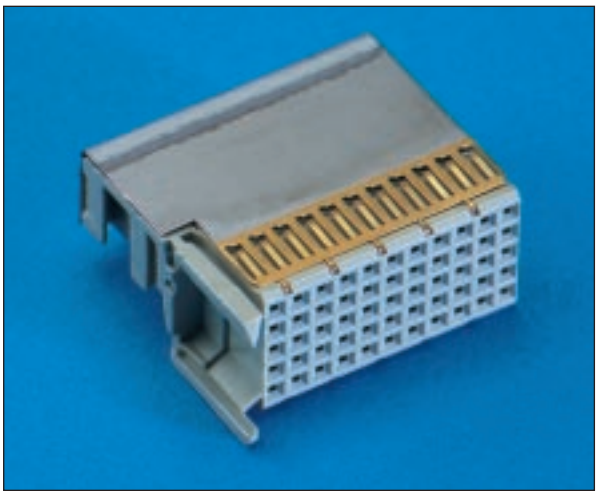
27 8071 125 000 833 = Type B 125 Pin Right Angle Receptacle without upper shield
27 8071 125 010 833 = Type B 125 Pin Right Angle Receptacle with upper shield
Contact Elco for availability of alternate platings



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

Type C Right Angle Female for Daughter Cards

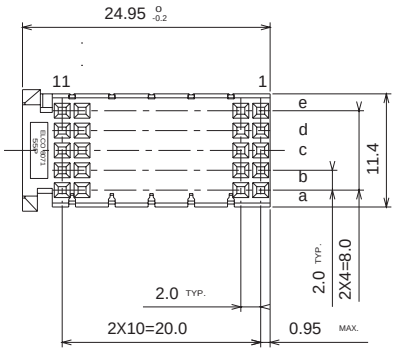
Series 8071

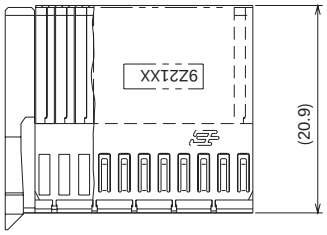


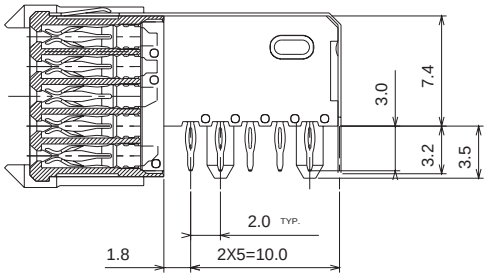
- 55 signal contacts in 5 rows of 11 positions
- Designed for gas tight press-fit installation
- Supplied with or without upper ground return shield
- Available with bottom pegs for secure P.C. board mounting
- Daughter card applications
- This connector is designed for end positions only

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

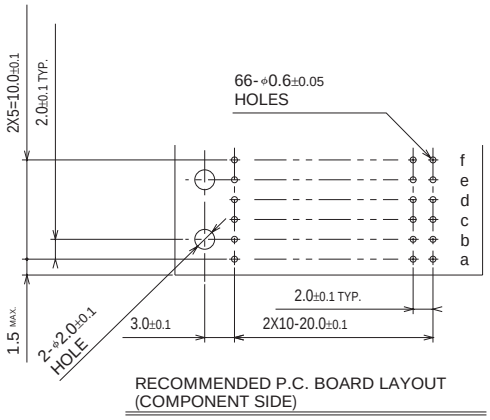
Contact Elco for availability of alternate platings



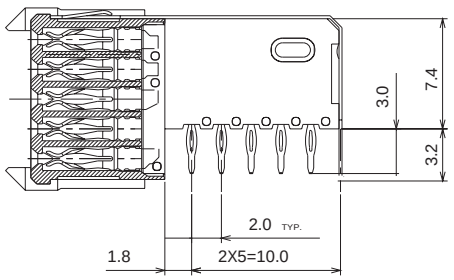




011



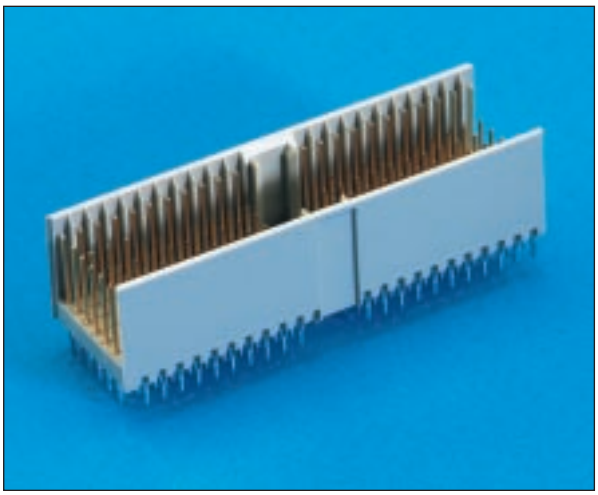
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



012

P1/P4 Type A Vertical Male Feed-To for Backplanes

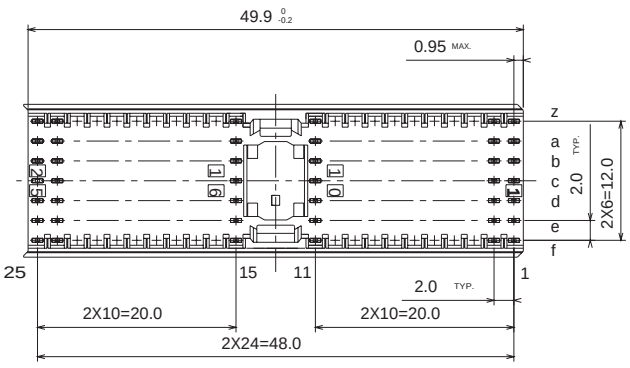
Series 8071

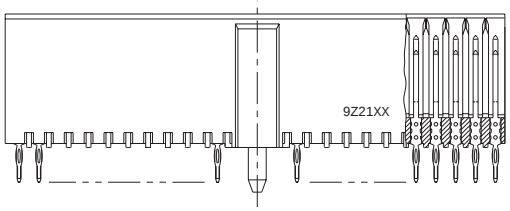


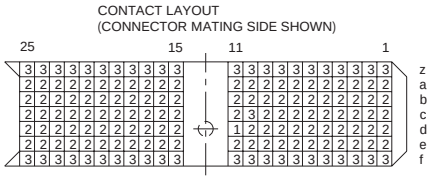
- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 25 positions
- Center cavity with polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installations
- Twelve different contact styles are available for customizing connector to exact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

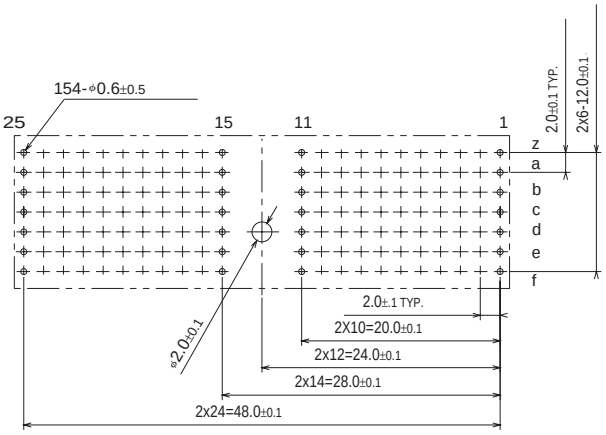
17 8071 154 001 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Std cPCI

Contact Elco for availability of alternate platings

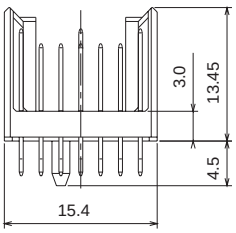


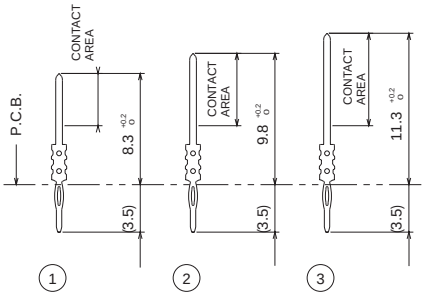






RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

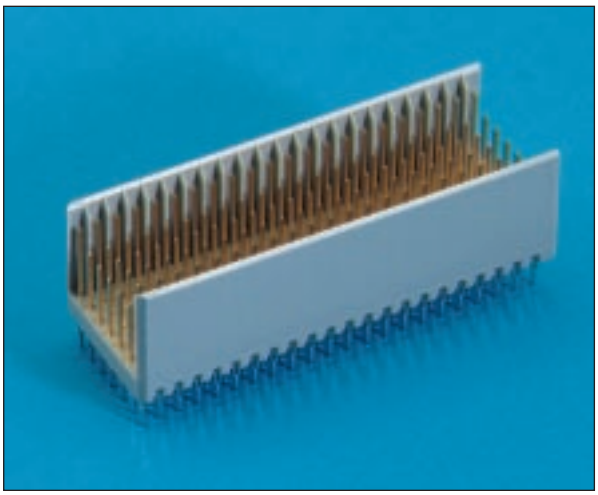




CONTACT DETAIL

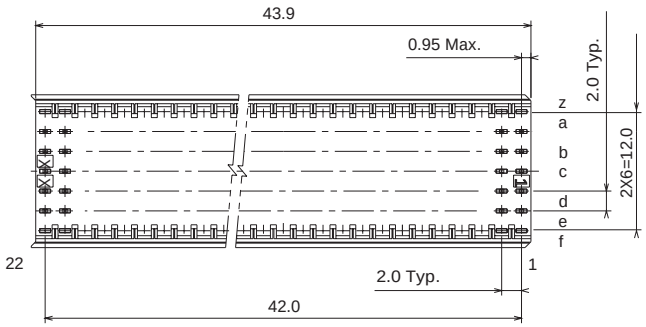
P2/P5 Type B Vertical Male Feed-To for Backplanes

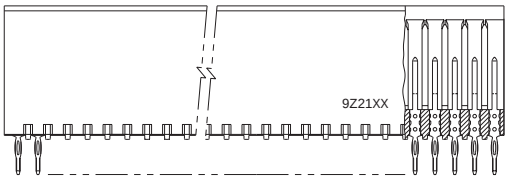
Series 8071



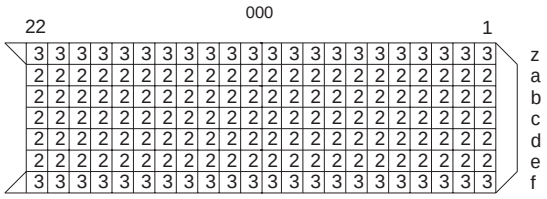
- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 22 positions
- Designed for gas tight press-fit installation
- Used in position P2 and P5 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact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

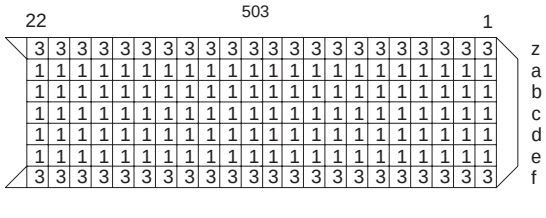
17 8071 154 000 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L2,3 cPCI
17 8071 154 503 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L1,3 cPCI
Contact Elco for availability of alternate platings

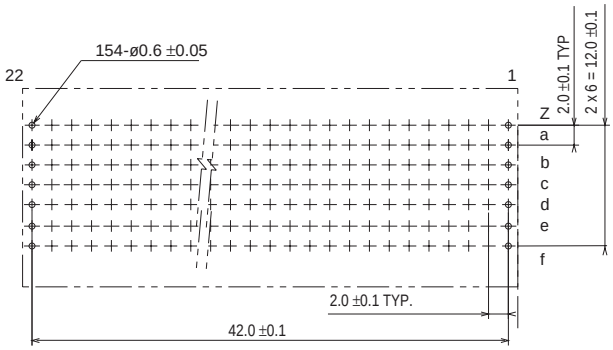


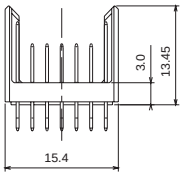


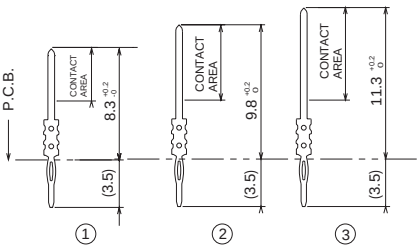
CONTACT LAYOUT
(CONNECTOR SIDE SHOWN)







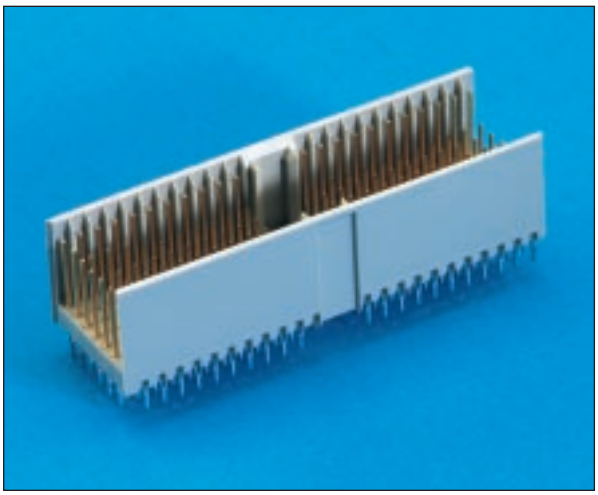




RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

P1 Type A Vertical Male Feed-To for Backplanes (Hot Swap)

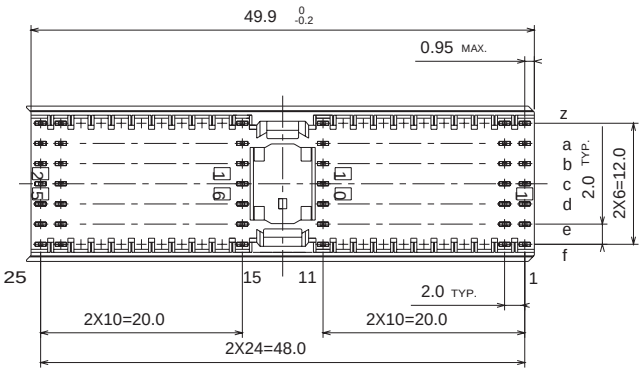
Series 8071

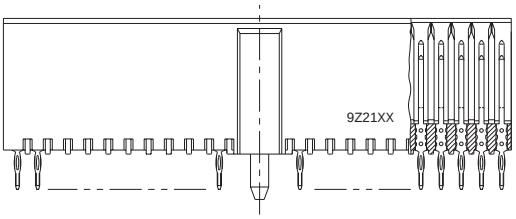


- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 25 positions
- Center cavity with polarizing option (uses 3 positions)
- See page 34 for keying options
- Used in position P1 of the CompactPCI Hot Swap specification
- Designed for gas tight press-fit installation
- Twelve different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

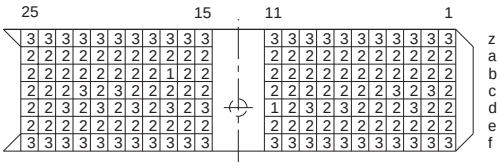
17 8071 154 508 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Hot Swap

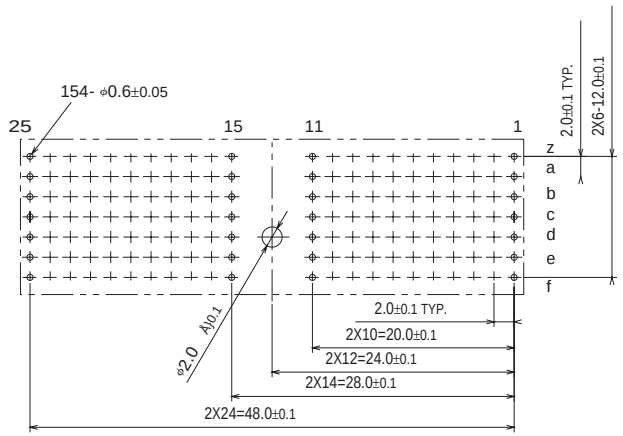
Contact Elco for availability of alternate platings



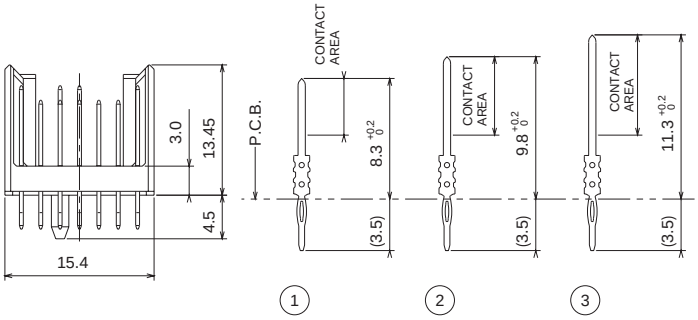


CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)





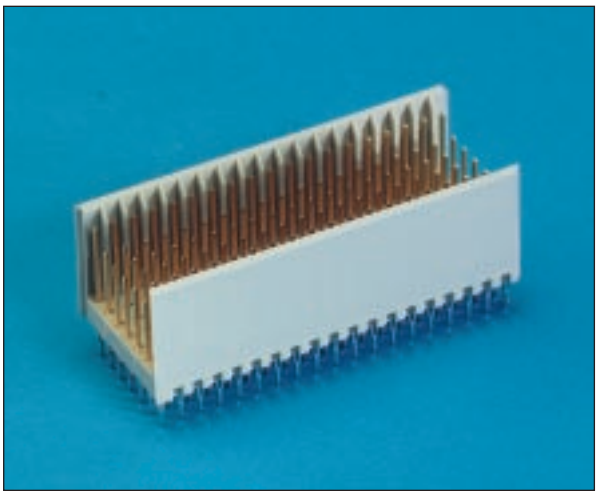
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



CONTACT DETAIL

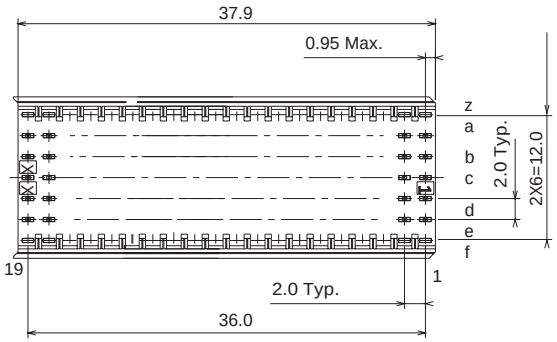
P3 Type B Vertical Male Feed-To for Backplanes

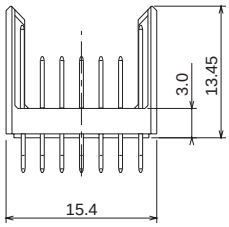
Series 8071

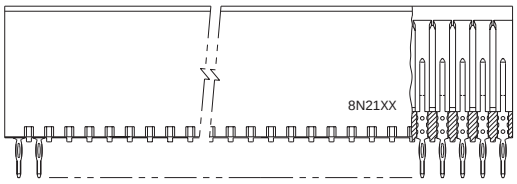


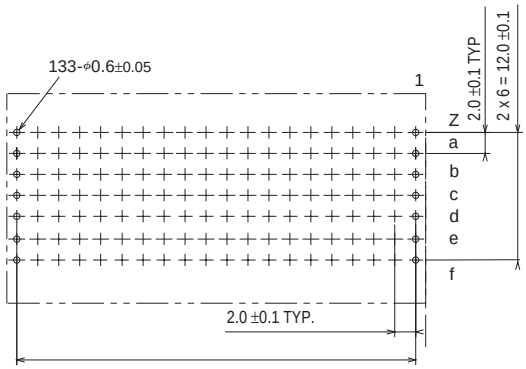
- 95 signal contacts and 38 ground shield contacts in 5+2 rows of 19 positions
- Designed for gas tight press-fit installation
- This connector fills position P3 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom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



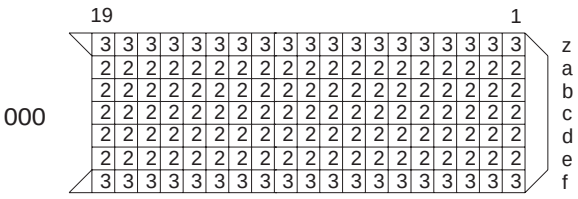


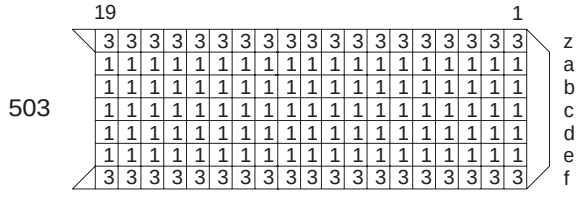


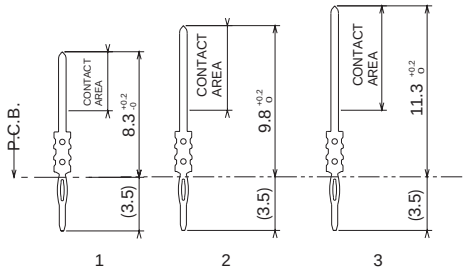


RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)



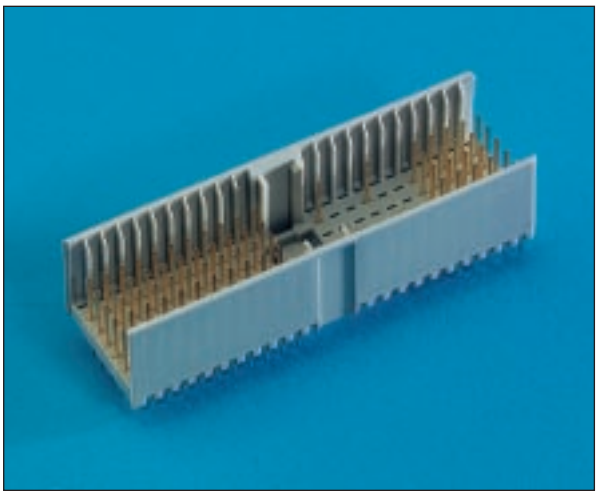




CONTACT DETAIL

P4 Type A Vertical Male Feed-To for Backplanes (Computer Telephony)

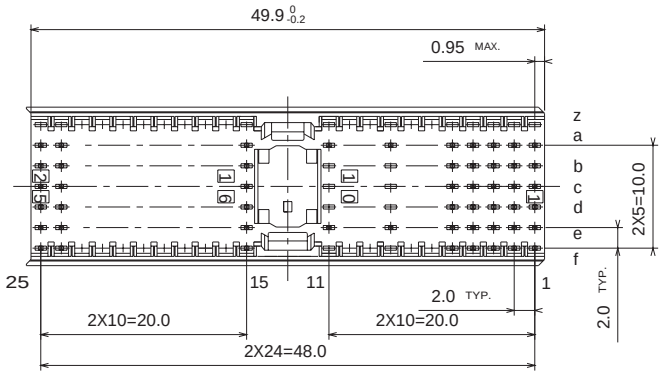
Series 8071

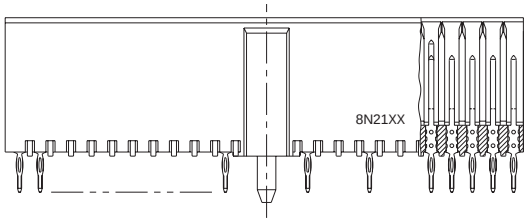


- 84 signal contacts and 16 ground shield contacts in 5 rows of 25 positions selectively loaded
- Center cavity with polarization option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Fills position P4 of the CompactPCI Computer Telephony specification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

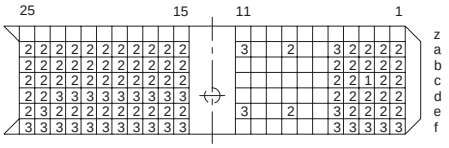
17 8071 100 511 833 = P4 Type A 84 signal contacts and 16 ground contacts, Short Tail (Computer Telephony)

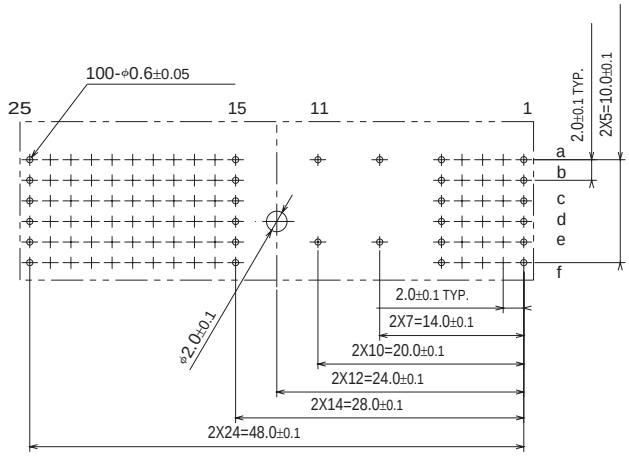
Contact Elco for availability of alternate platings



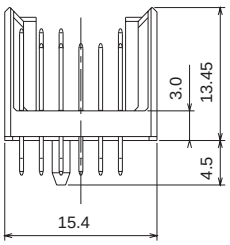


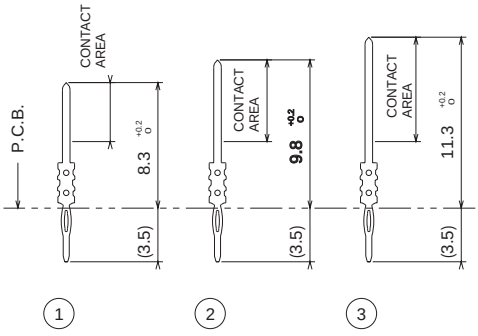
CONTACTS LAYOUT
(CONNECTOR MATING SIDE SHOWN)





RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

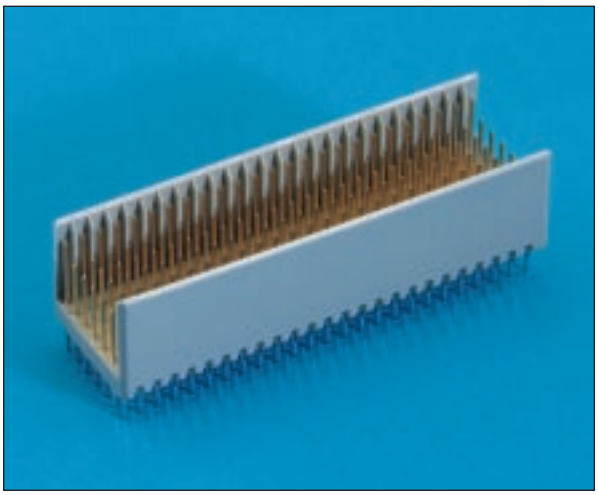




CONTACT DETAIL

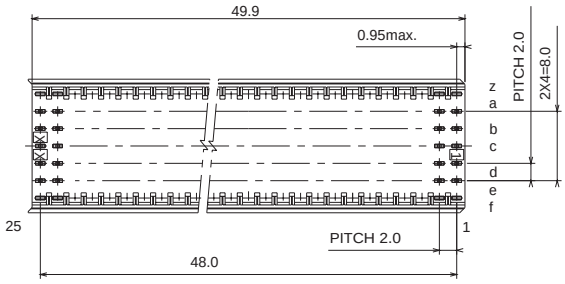
Type B Vertical Male Feed-To for Backplanes

Series 8071

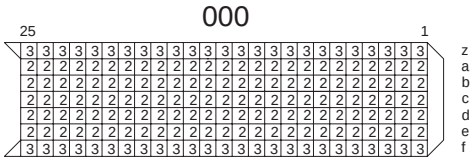


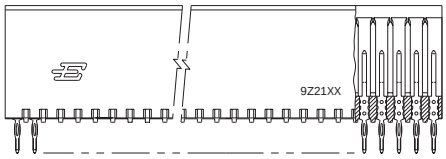
- 125 signal contacts and 50 ground shield contacts in 5+2 rows of 25 positions
- Designed for gas tight press-fit installation
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43

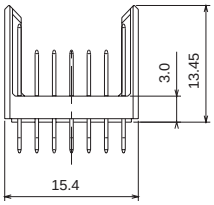
17 8071 175 000 833 = 125 signal contacts and 50 ground contacts, Short Tail L2,3 cPCI
17 8071 175 503 833 = 125 signal contacts and 50 ground contacts, Short Tail L1,3 cPCI
Contact Elco for availability of alternate platings

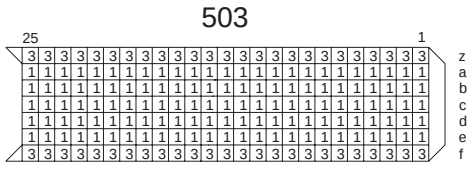


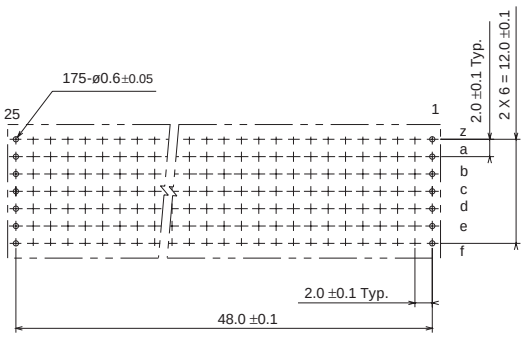
CONTACT LAYOUT
(CONNECTOR SIDE SHOWN)



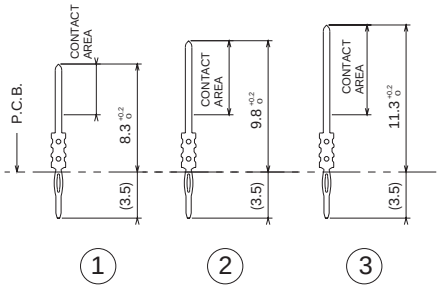








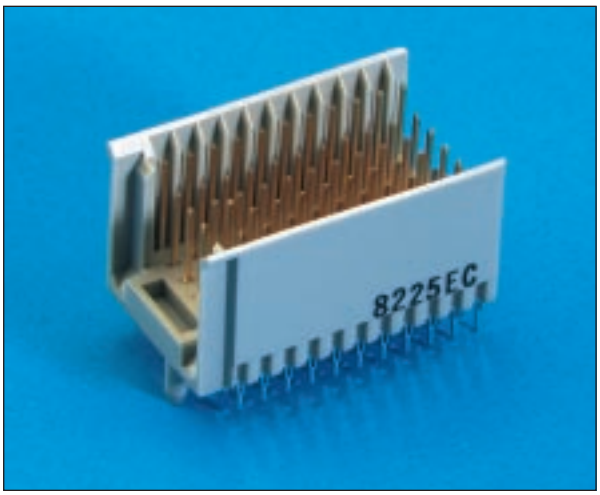
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



CONTACT DETAIL

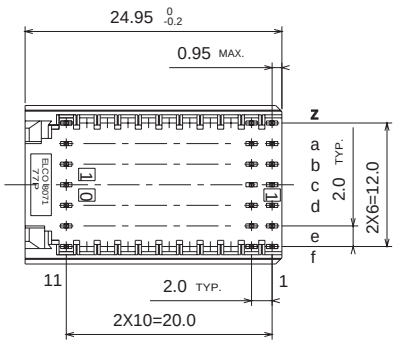
Type C Vertical Male Feed-To for Backplanes

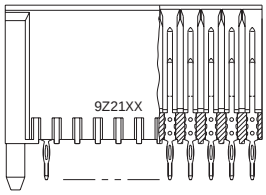
Series 8071

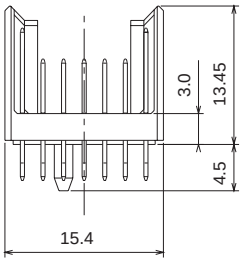


- 55 signal contacts and 22 ground shield contacts in 5+2 rows of 11 positions
- Designed for gas tight press-fit installation
- This connector is designed for end positions only
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations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

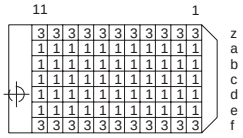






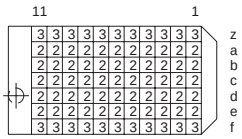
CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)

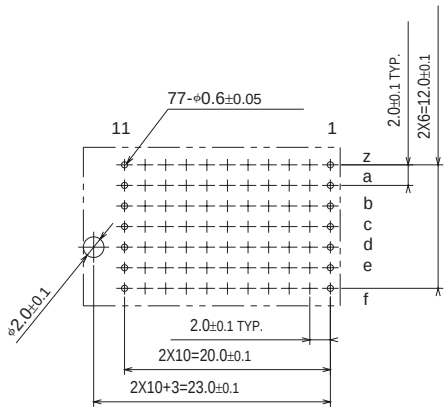
509



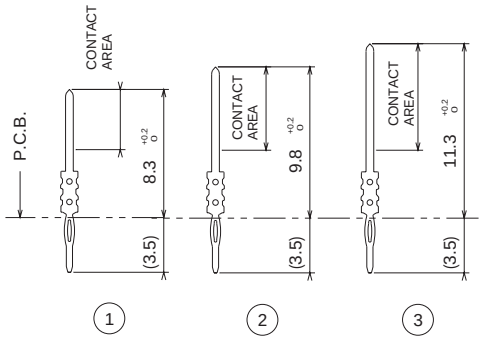
CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)

512





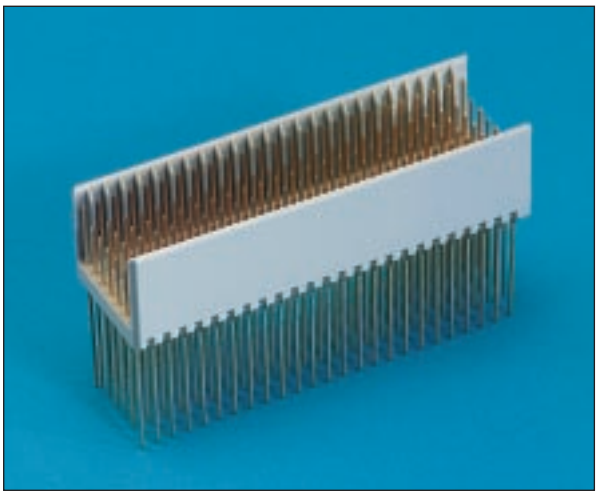
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



CONTACT DETAIL

Type B Vertical Male Feed-Thru for Backplanes

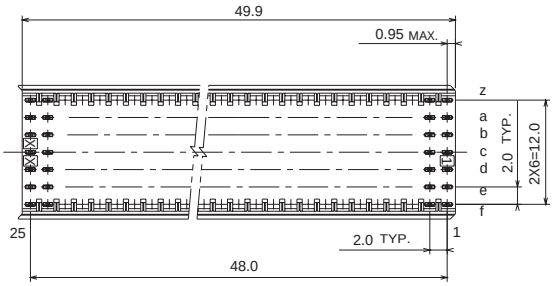
Series 8071

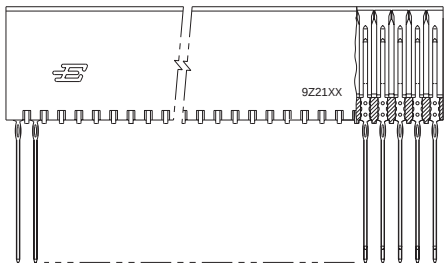


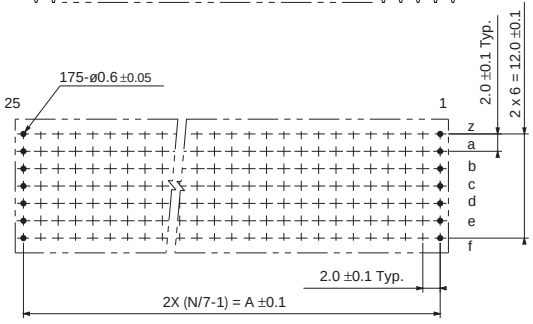
- 125 signal contacts and 50 ground shield contacts in 5+2 rows of 25 positions
- Designed for gas tight press-fit installation
- Twelve different contact styles for customizing connector to exact specifications
- For custom contact configurations complete the form on page 43

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

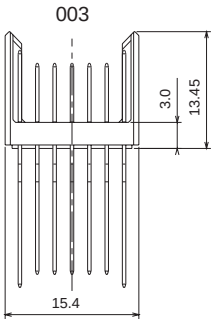
Contact Elco for availability of alternate platings

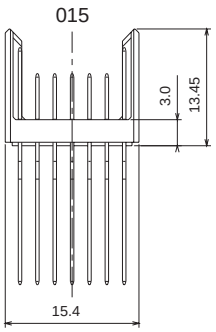




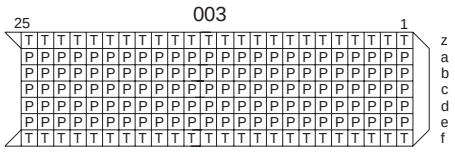


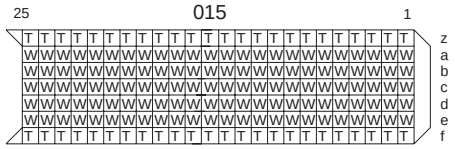
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

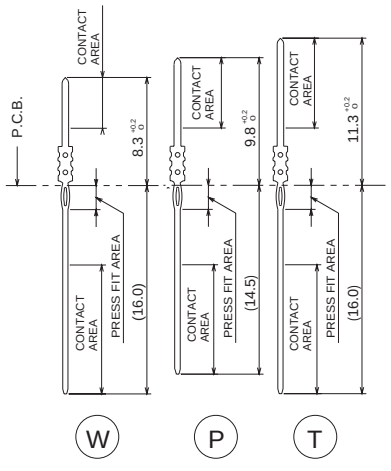




CONTACT LAYOUT
(CONNECTOR SIDE SHOWN)

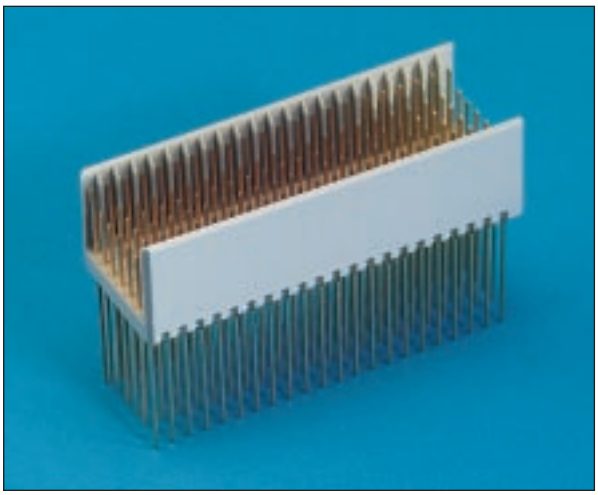






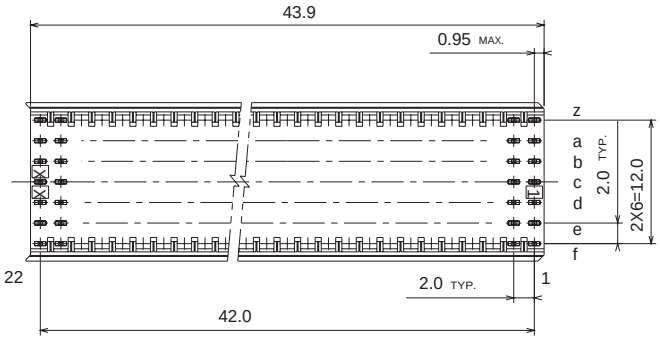
P2/P5 Type B Vertical Male Feed-Thru for Backplanes

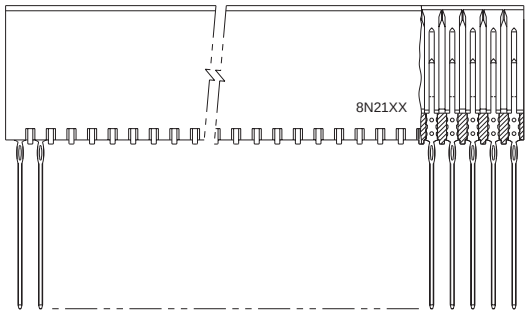
Series 8071

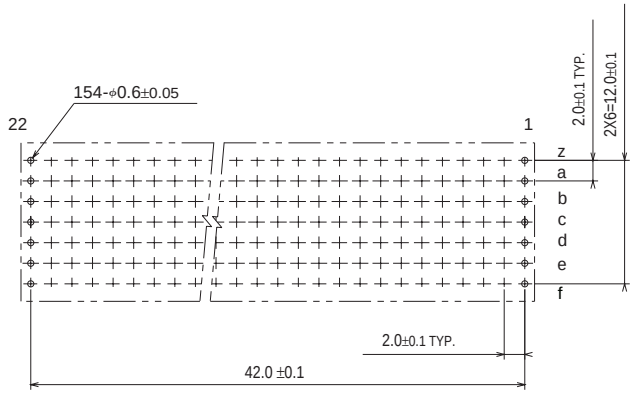


- 110 signal contacts and 44 ground shield contacts in 5+2 rows of 22 positions
- Designed for gas tight press-fit installation
- Fills positions P2 and P5 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact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

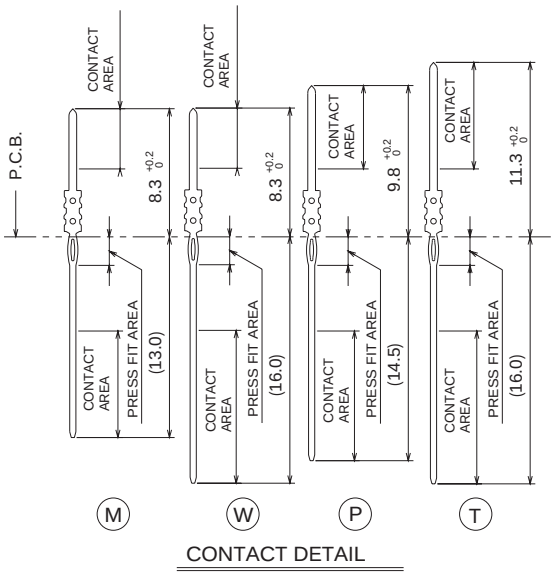
17 8071 154 003 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L2,3 cPCI
17 8071 154 004 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI
17 8071 154 015 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI
Contact Elco for availability of alternate platings







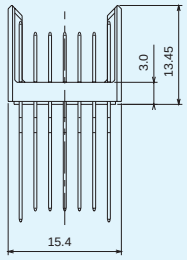
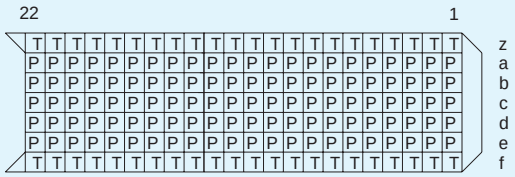
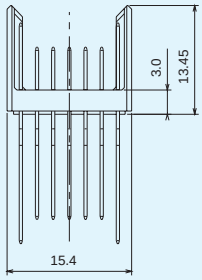
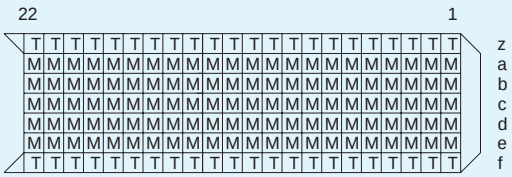
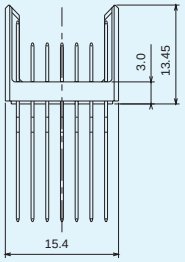
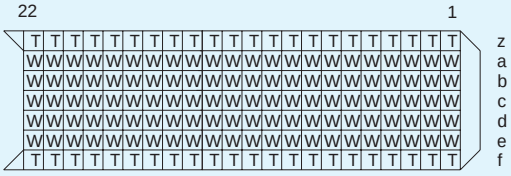
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



CONTACT DETAIL

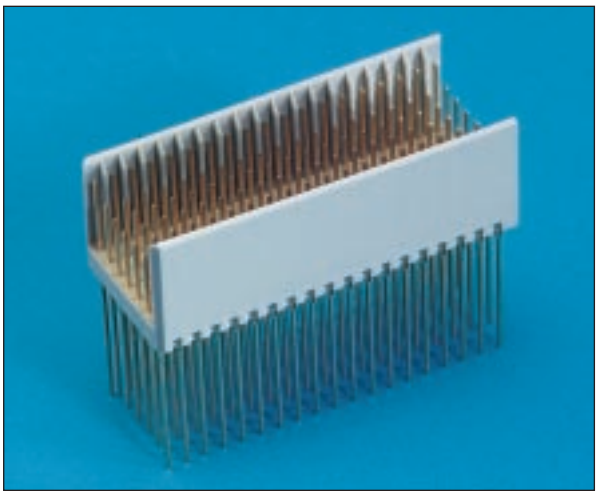
P2/P5 Type B Vertical Male Feed-Thru for Backplanes

Series 8071

Variation Code	Side View	Pin Loading
003 **Long Tail, Std.** **L2, 3** **P2/P5**		
004 **Long Tail, Std.** **L1, 3** **P2/P5**		
015 **Long Tail, Std.** **L1, 3** **P2/P5**		

P3 Type B Vertical Male Feed-Thru for Backplanes

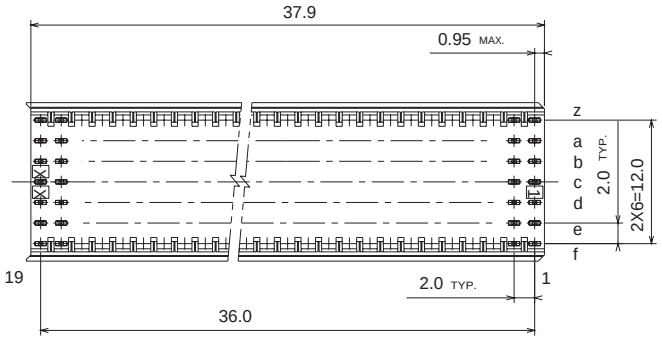
Series 8071

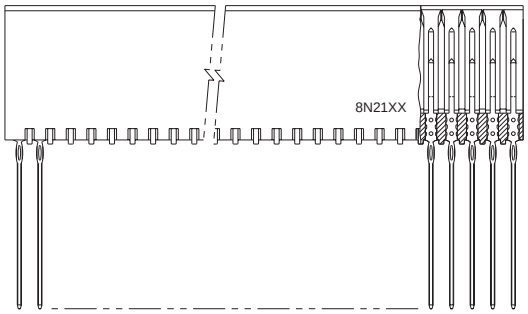


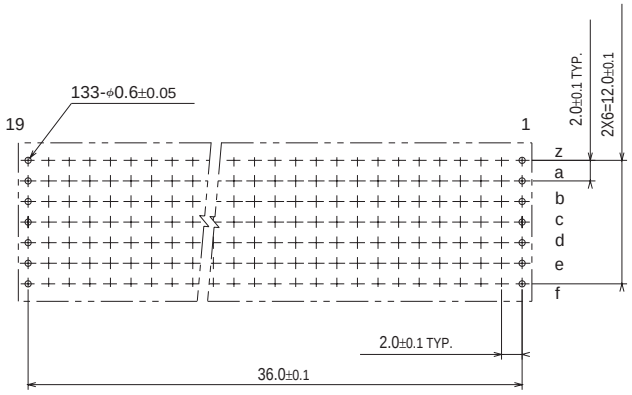
- 95 signal contacts and 38 ground shield contacts in 5+2 rows of 19 positions
- Designed for gas tight press-fit installation
- Fills position P3 of the CompactPCI specification
- Twelve different contact styles are available for customizing connector to exact specifications
- For custom contact configurations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

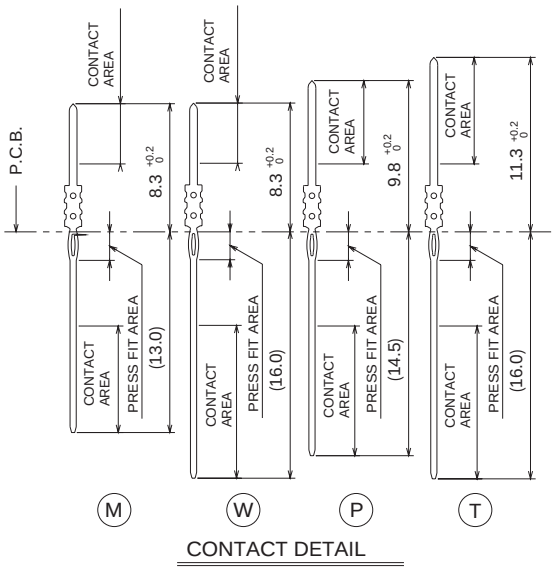
Contact Elco for availability of alternate platings







RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

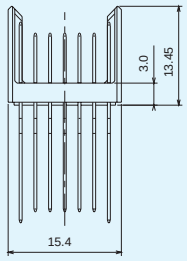
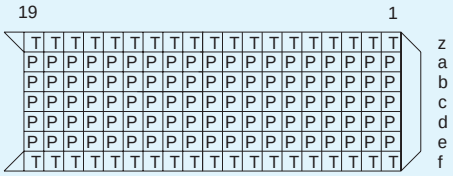
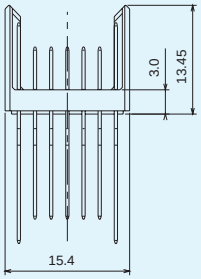
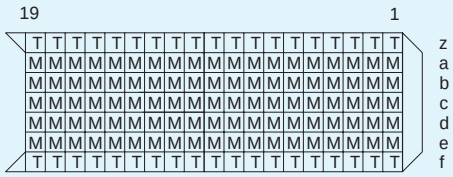
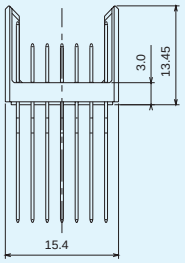
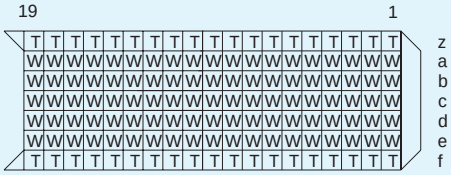


CONTACT DETAIL

ELCO

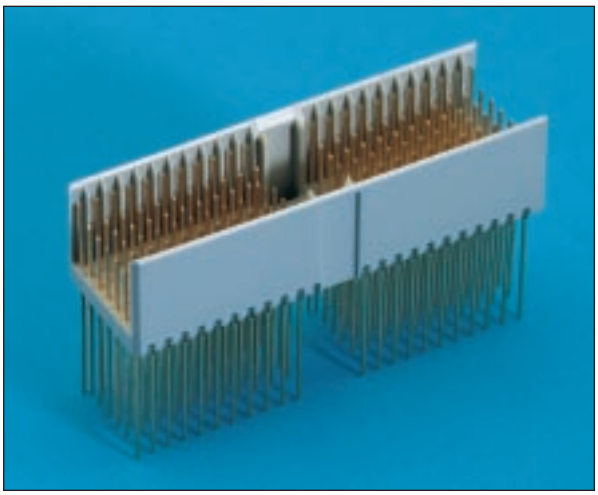
P3 Type B Vertical Male Feed-Thru for Backplanes

Series 8071

Variation Code	Side View	Pin Loading
003 **Long Tail, Std.** **L2, 3** **P3**		
004 **Long Tail, Std.** **L1, 3** **P3**		
015 **Long Tail, Std.** **L1, 3** **P3**		

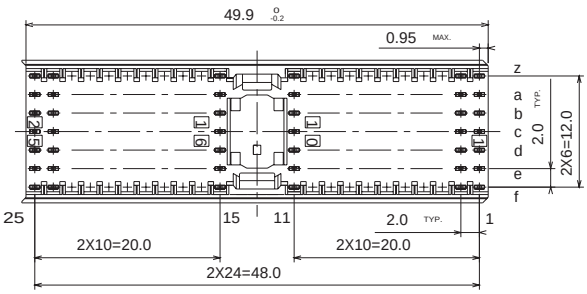
P4 Type A Vertical Male Feed-Thru for Backplanes

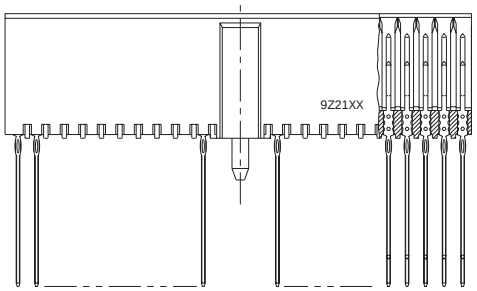
Series 8071

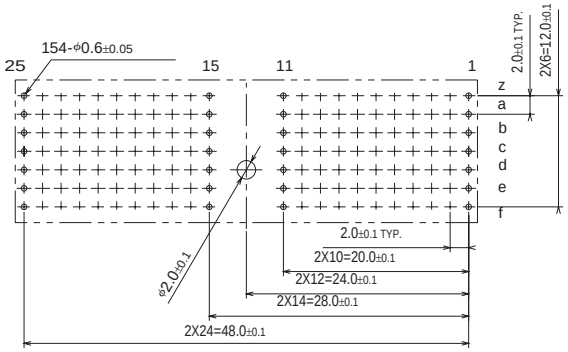


- 110 signal contacts and 44 ground shield contacts in 5 rows of 25 positions
- Center cavity with polarizing option (uses 3 positions)
- See page 34 for keying options
- Designed for gas tight press-fit installation
- Fills position P4 of the CompactPCI specification
- Twelve different contact styles 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

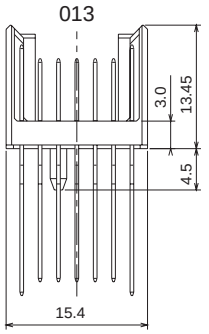
17 8071 154 013 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L2,3 cPCI
17 8071 154 014 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L1,3 cPCI
Contact Elco for availability of alternate platings

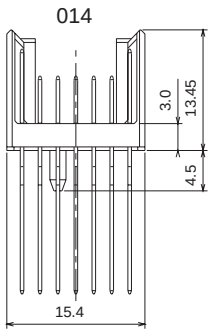


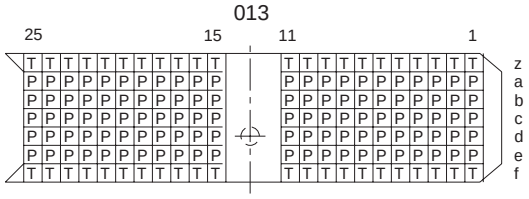


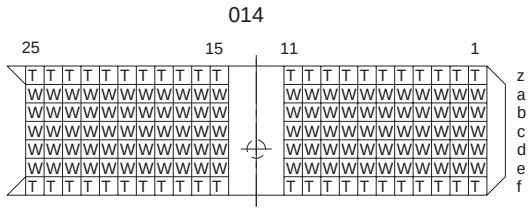


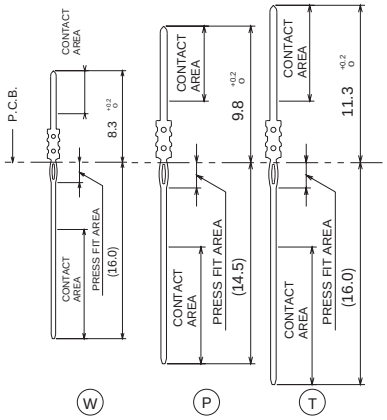
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)







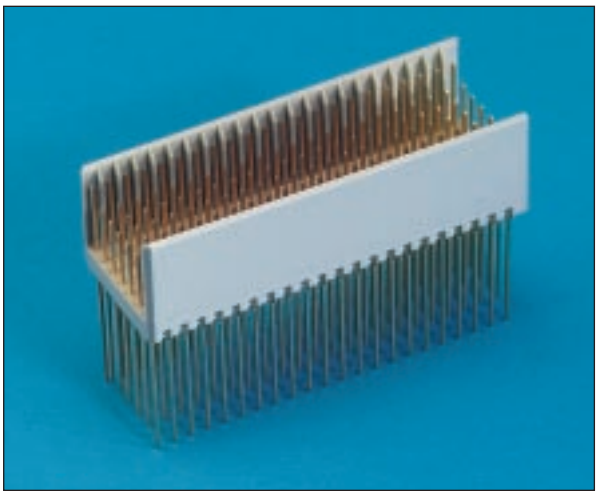




ELCO

P5 Type B Vertical Male Feed-Thru for Backplanes (Computer Telephony)

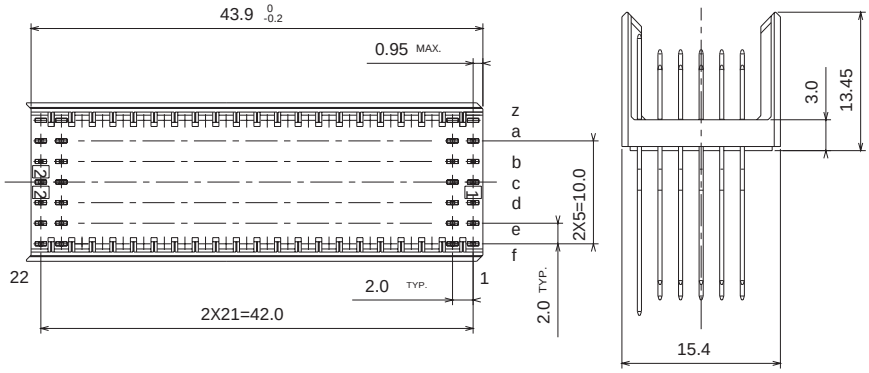
Series 8071

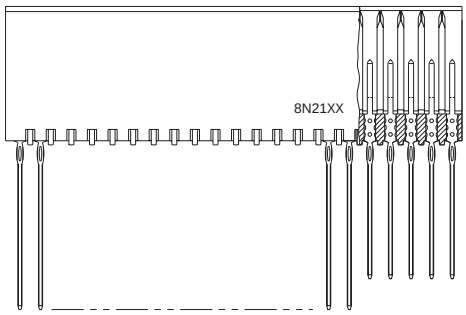


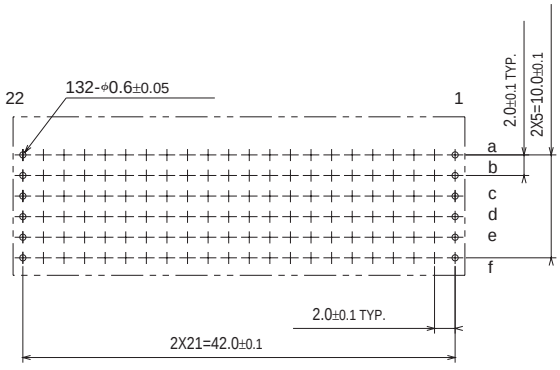
- 110 signal contacts and 22 ground shield contacts in 5+1 rows of 22 positions
- Designed for gas tight press-fit installation
- Fills position P5 of the CompactPCI Computer Telephony specification
- Twelve different contact styles are available for customizing connector to exact specifications

17 8071 132 016 515 = P5 110 signal contacts and 22 ground contacts, Long Tail (Computer Telephony)

Contact Elco for availability of alternate platings

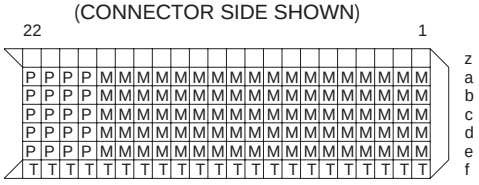


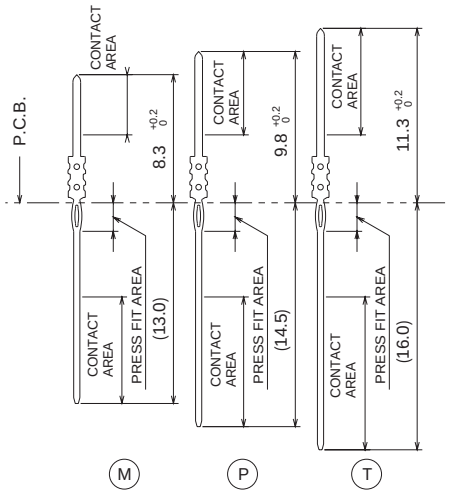




RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

CONTACT LAYOUT
(CONNECTOR SIDE SHOWN)

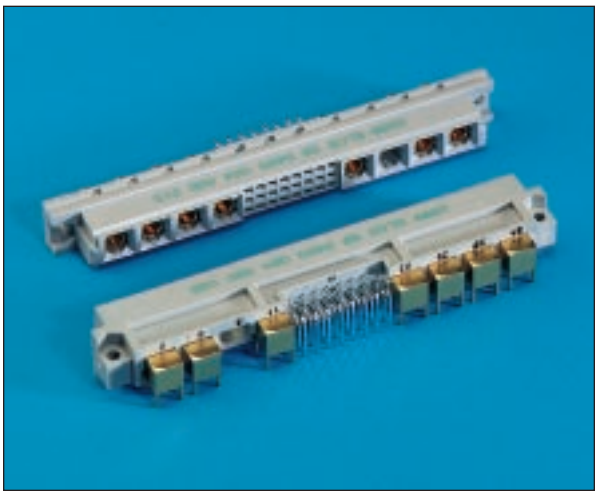




CONTACT DETAIL

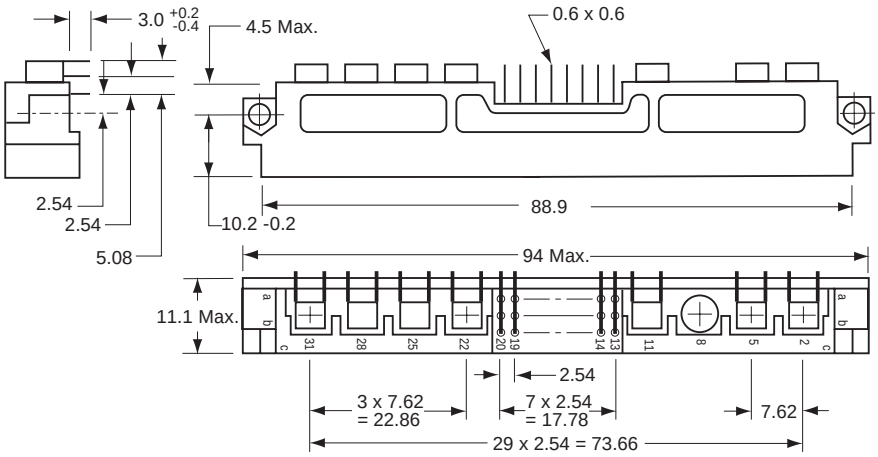
Style M DIN EuroCard Power Connector

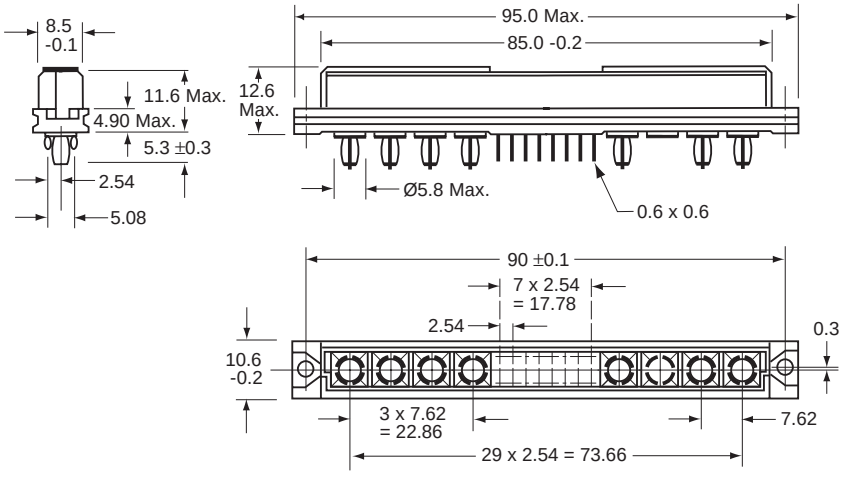
Series 8483/8485



- 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





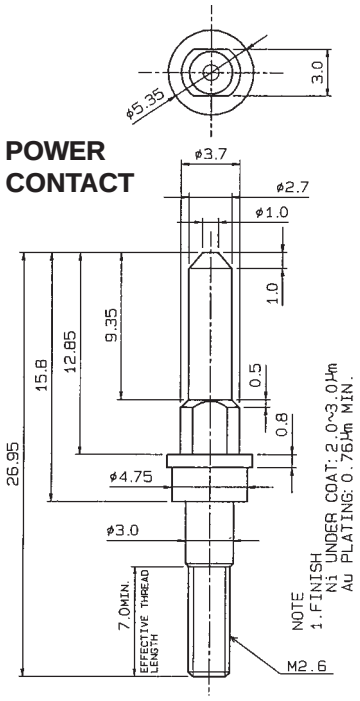
Type L Vertical Male for Backplanes

Series 8074

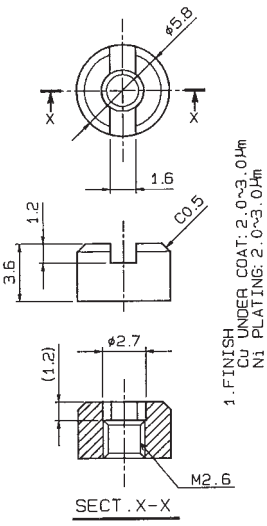
- 6 power contact cavities
- Center cavity with pre-alignment guides and polarizing option
- Supplied with locating pegs for secure P.C. board mounting
- Power contact is ordered separately

61 8074 006 001 007 = Type L 6 position power connector with polarizing key, (housing only)

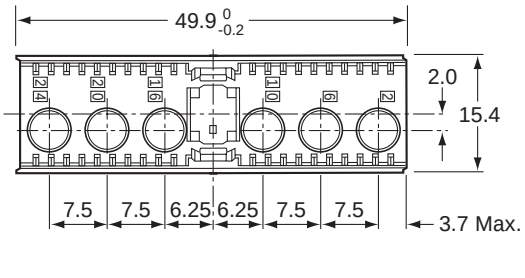
Power Contact: P/N 71 8074 000 501 863 ordered separately

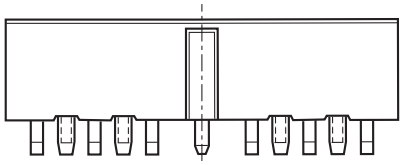


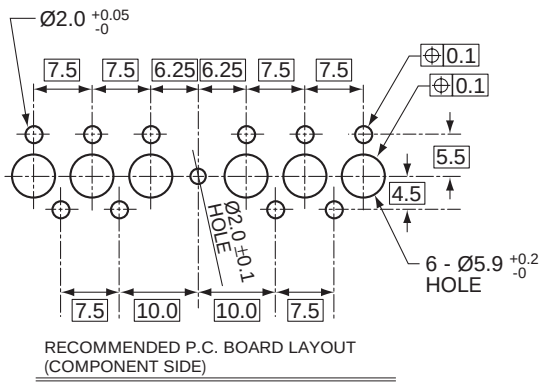
71 8074 000 501 863



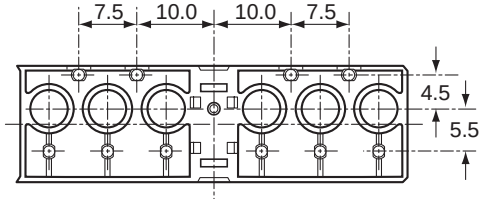
80 8074 000 001 062

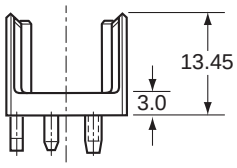






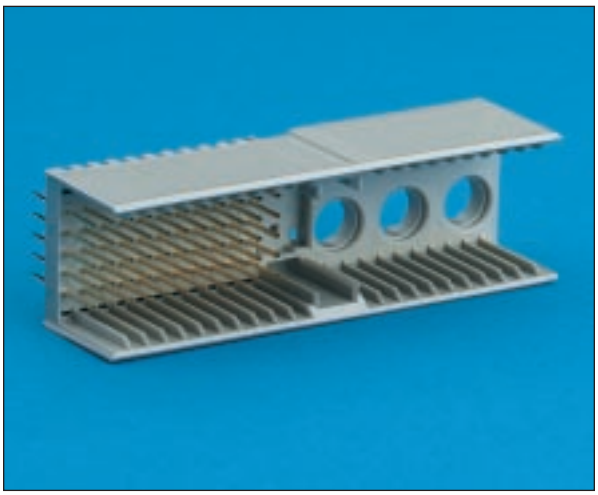
RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)





Type M Vertical Male Feed-To for Backplanes

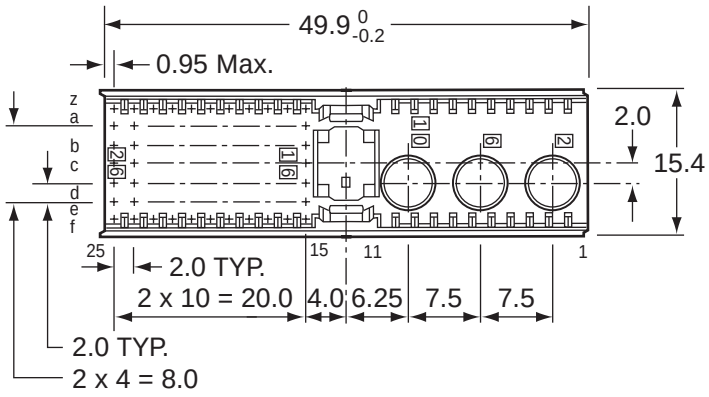
Series 8075

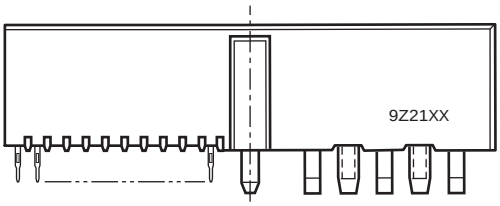


- 3 power contact cavities
- 55 signal contacts
- Center cavity with pre-alignment guides and polarizing option
- Designed for gas tight press-fit installation
- Supplied with locating pegs for secure P.C. board mounting
- Power contact is ordered separately
- See page 31 for contact part number

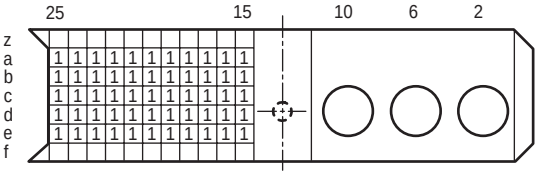
17 8075 355 501 833 = Type M 3 position power connector with polarizing key, with 55 signal contacts

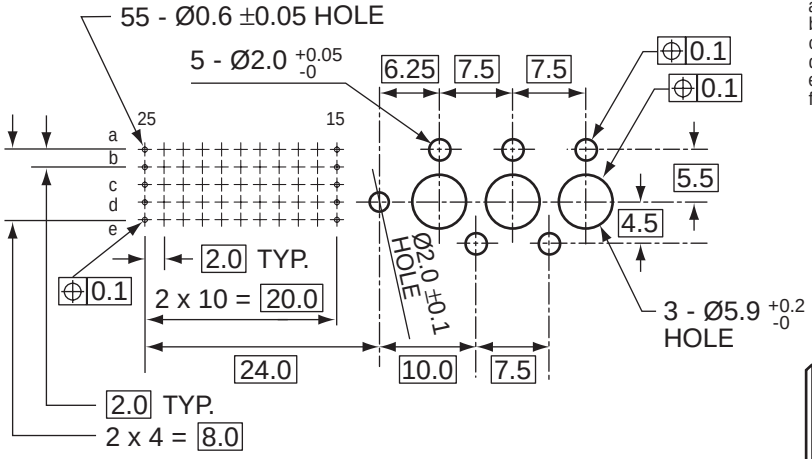
Contact Elco for availability of alternate platings



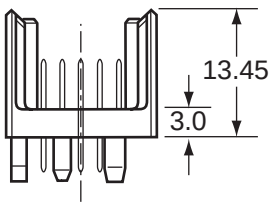


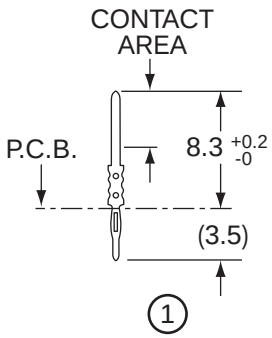
CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)





RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)





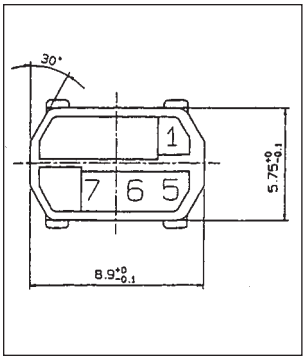
Application and Installation Tooling

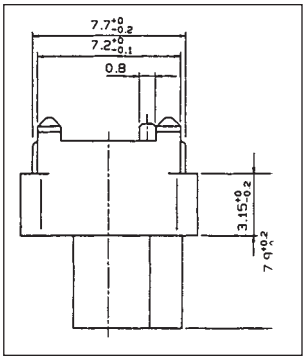
MALE CONNECTORS	POSITIONS	LENGTH	PART #
Type A male	22	49.9mm	66 3015 344 000 000
Type B male	19	37.9mm	66 3015 347 000 000
Type B male	22	43.9mm	66 3015 346 000 000
Type B male	25	49.9mm	66 3015 345 000 000
Type C male	11	22.3mm	66 3015 348 000 000
FEMALE CONNECTORS (With Upper Shield)			
Type A female	22	49.9mm	
Type B female	19	37.9mm	
Type B female	22	43.9mm	
Type B female	25	49.9mm	
Type C female	11		
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

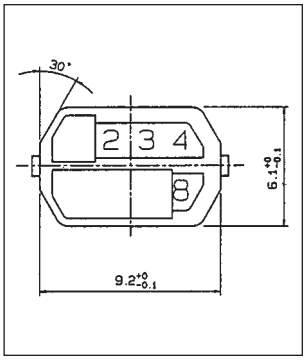
Coding Keys: Type A Male (Backplane) Type A Female (Daughter Card)

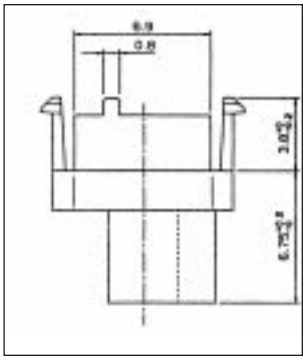
Series 8071

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.





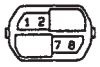
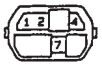




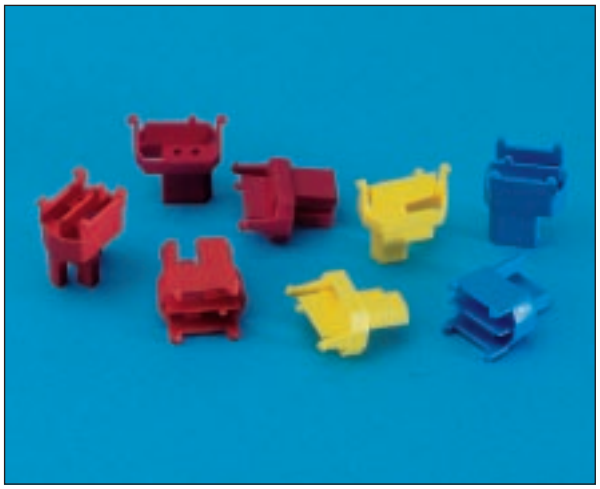
MALE

101 003	102 006	103 008	104 002
Cadmium Yellow	Brilliant Blue	Pastel Orange	Strawberry Red
			

FEMALE

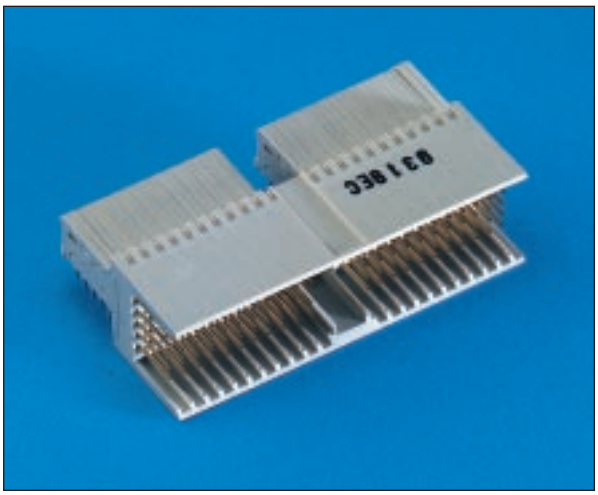
101 003	102 006	103 008	104 002
Cadmium Yellow	Brilliant Blue	Pastel Orange	Strawberry Red
			

Color	Ral Number	Code No.	Key Part Number	Plug/Receptacle
Cadmium Yellow	1021	3456	81 8071 000 101003	Plug 3.3V C-PCI
Brilliant Blue	5007	1567	81 8071 000 102006	Plug 5.0V C-PCI
Pastel Orange	2003	3568	81 8071 000 103008	Plug
Strawberry Red	3018	1248	81 8071 000 104002	Plug
Cadmium Yellow	1021	1278	82 8071 000 101003	Receptacle 3.3V C-PCI
Brilliant Blue	5007	2348	82 8071 000 102006	Receptacle 5.0V C-PCI
Pastel Orange	2003	1247	82 8071 000 103008	Receptacle
Strawberry Red	3018	3567	82 8071 000 104002	Receptacle



Type A Right Angle Male for Daughter Cards

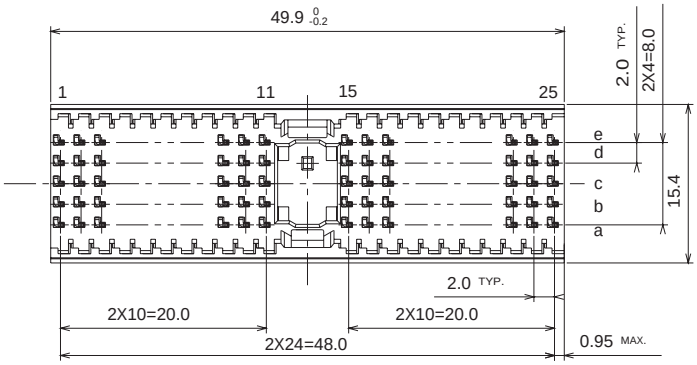
Series 8072

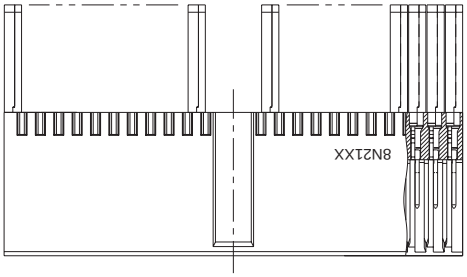


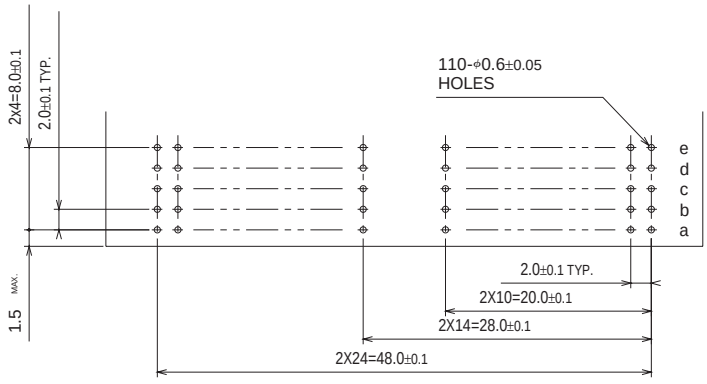
- 110 signal contacts
- Designed for gas tight press-fit installation
- Center cavity with pre-alignment guides and polarization option (uses 3 positions)
- This connector can be used by itself or in conjunction with style B connectors
- See page 34 for keying options

17 8072 110 001 833 = Type A Right Angle Male

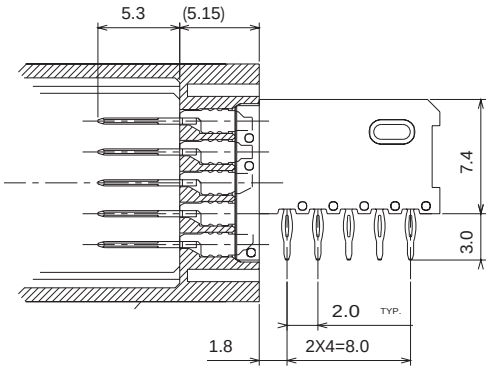
Contact Elco for availability of alternate platings





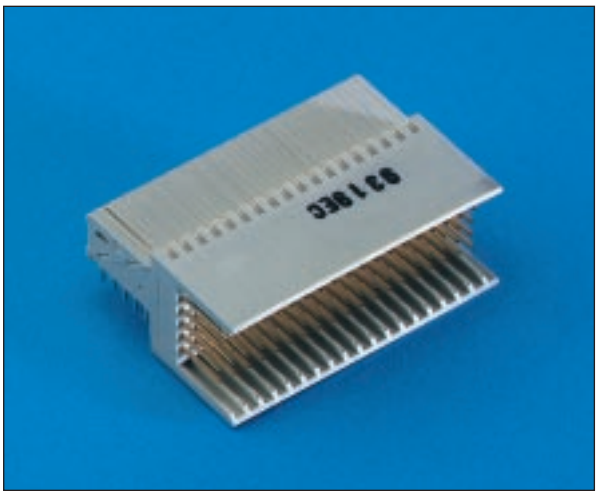


RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



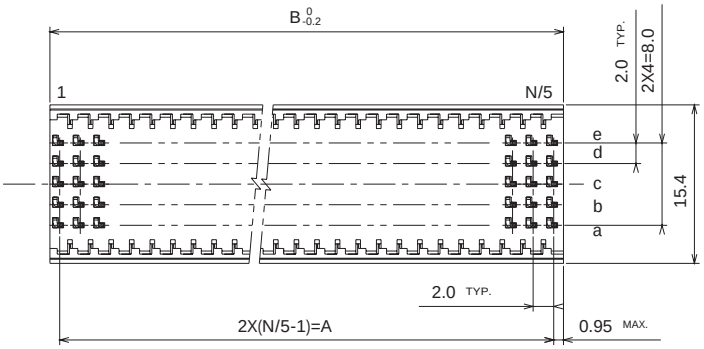
Type B Right Angle Male for Daughter Cards

Series 8072

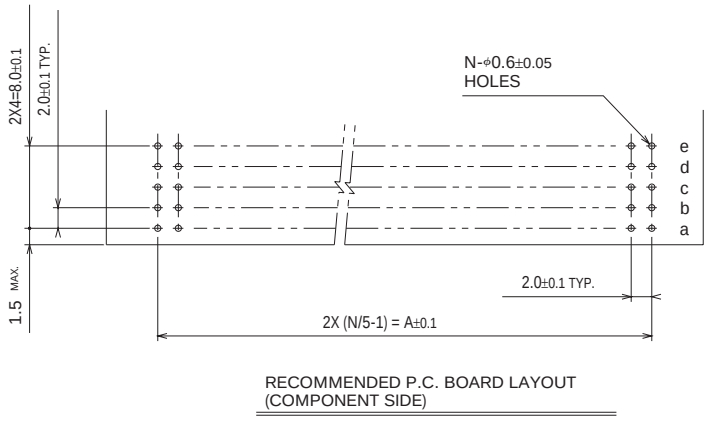


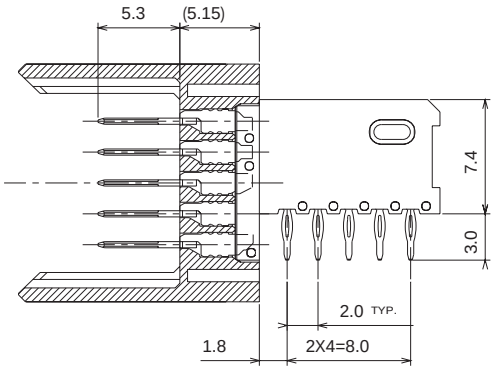
- 95, 110, 125 signal contacts
- Designed for gas tight press-fit installation
- This connector should be used in conjunction with a Type A style to ensure proper alignment
- Daughter card applications

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



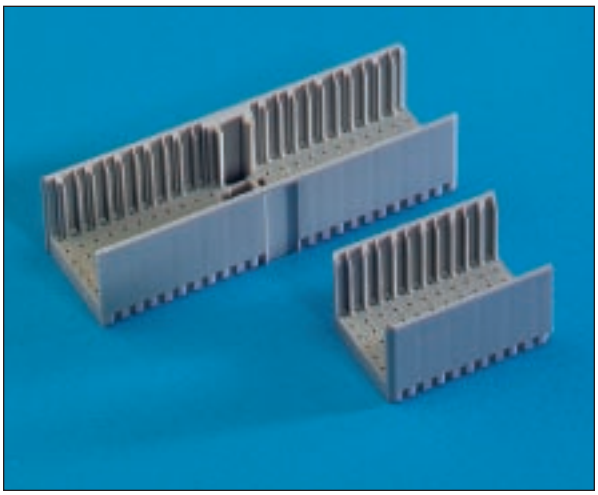
P/N	A	B
17 8072 095 000 833	36.0	37.9
17 8072 110 000 833	42.0	43.9
17 8072 125 000 833	48.0	49.9





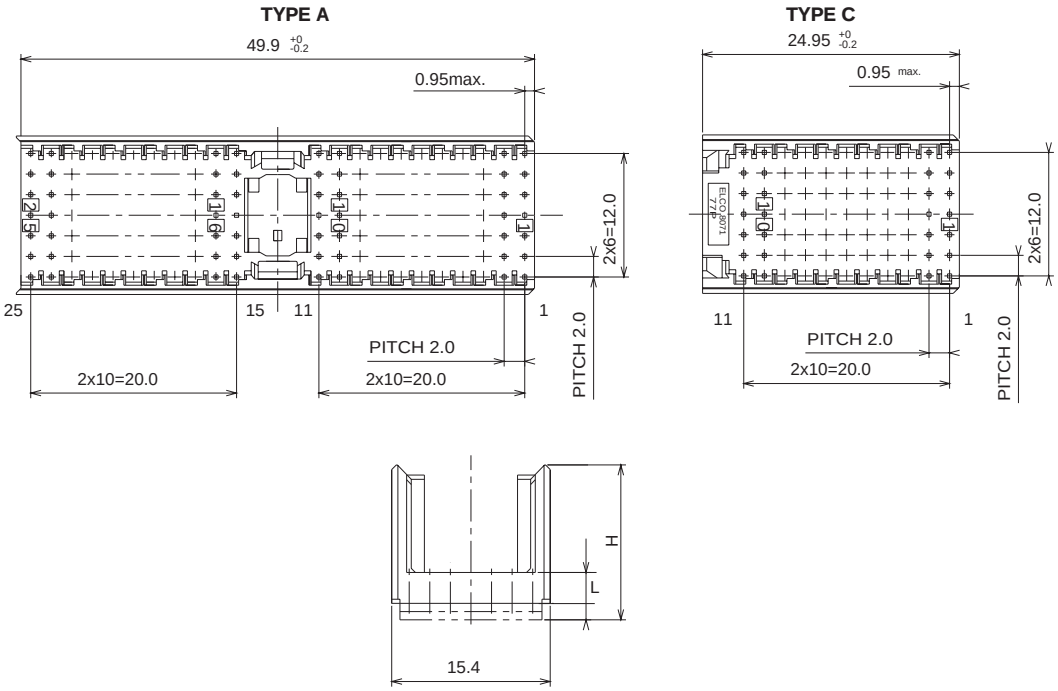
RP4 Shroud, Type A & C for Backplanes

Series 8071



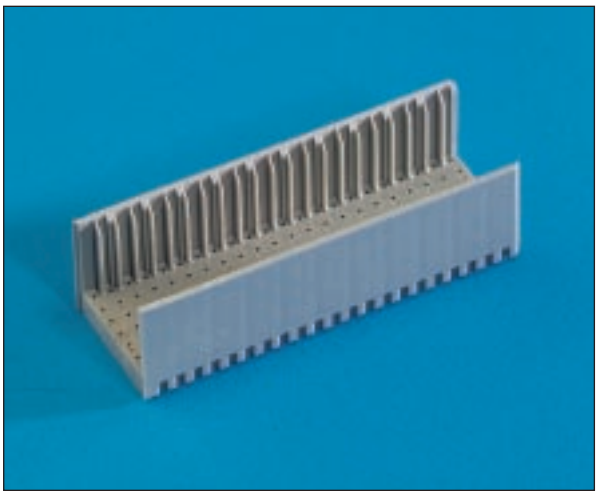
- Used in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Enables rear Input/Output or midplane applications with daughter cards or cable assemblies
- No spacer required
- Three heights available to accommodate different board thicknesses

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



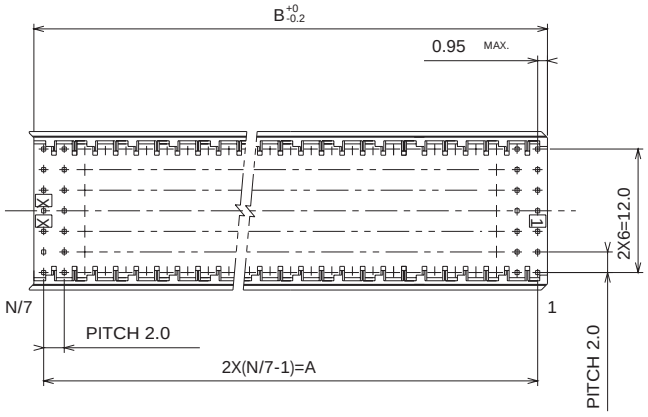
RP2, 3, 5 Shroud, Type B for Backplanes

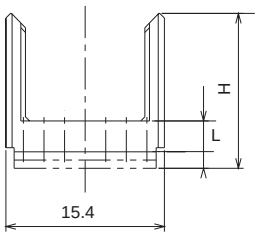
Series 8071



- 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

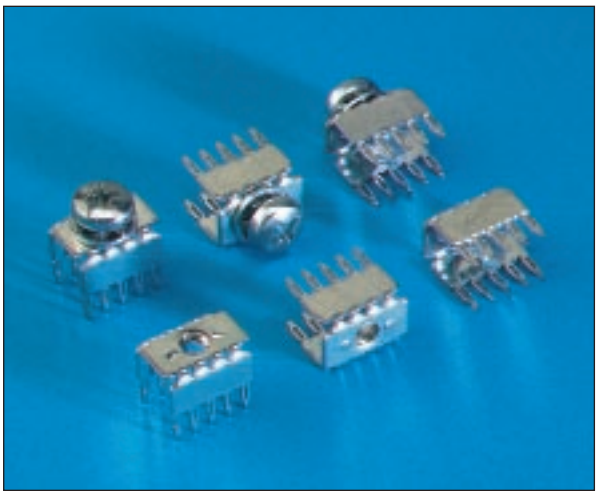




P/N	A	B	# OF POSITIONS
61 8071 133 XXX 007	36.0	37.9	19
61 8071 154 XXX 007	42.0	43.9	22
61 8071 175 XXX 007	48.0	49.9	25

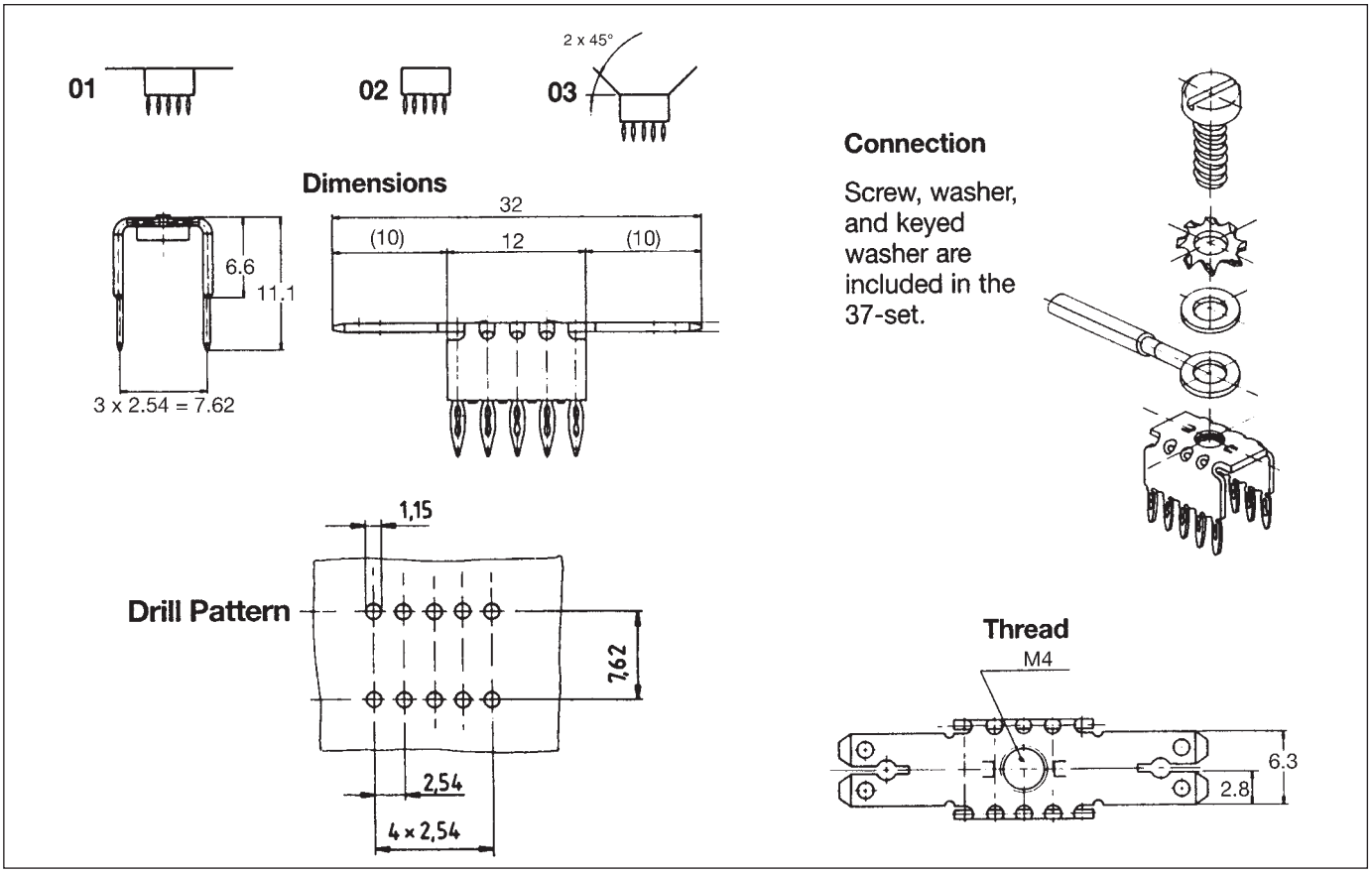
Power Pack Connectors

Series 2525



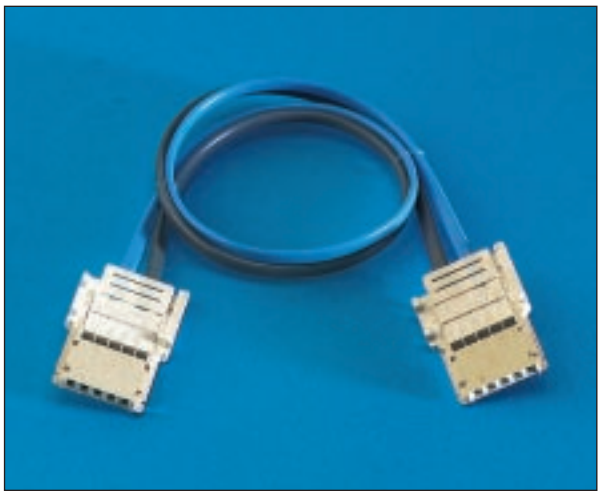
- Efficient system for high current distribution in backplane applications
- Press-in element for power connection for P.C. boards
- VARIPIN™ press-fit design
- 30A current rating
- Several different connection versions available
- Suitable for circuit boards with .063 (1.6mm) minimum thickness
- Plating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



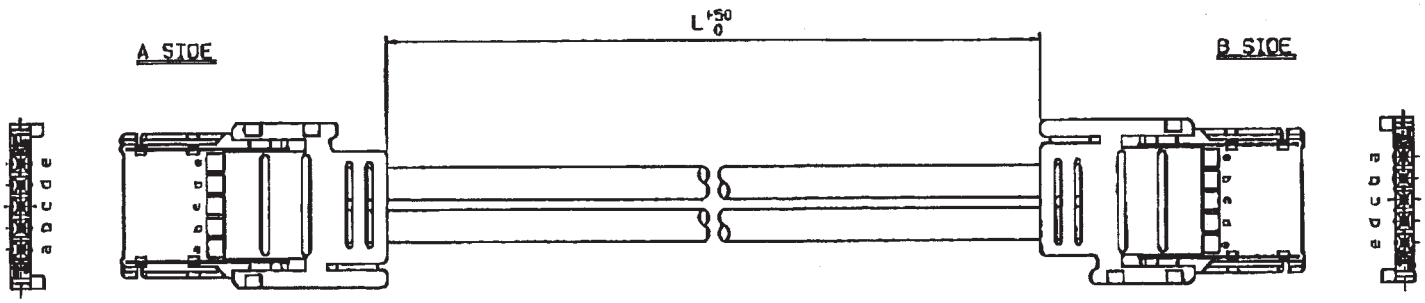
5 Position Modular Input/Output Cable

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

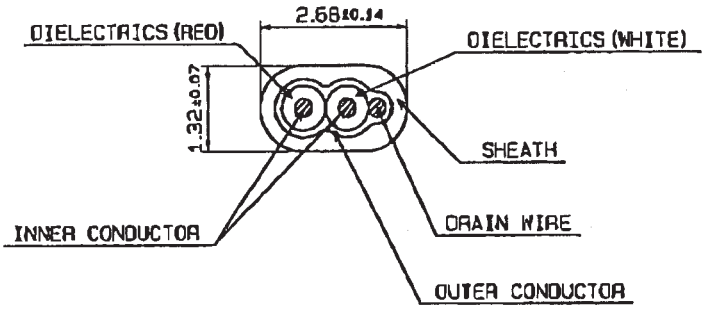
97 8073 002 050 001 = 5 position cable assembly, double ended, 500mm long
97 8073 002 100 001 = 5 position cable assembly, double ended, 1000mm long
97 8073 002 150 001 = 5 position cable assembly, double ended, 1500mm long
97 8073 002 200 001 = 5 position cable assembly, double ended, 2000mm long
97 8073 002 250 001 = 5 position cable assembly, double ended, 2500mm long
Contact Elco for availability of alternate lengths



WIRING PATTERN

A SIDE		B SIDE
z Row	Gnd	z Row
a Row	Signal 1	a Row
b Row	Signal 2	b Row
c Row	Gnd	c Row
d Row	Signal 3	d Row
e Row	Signal 4	e Row
f Row	Gnd	f Row

Cable Structure



Part Number Index

Elco Multi-Line Module Connector

2mm Hard-Metric for CompactPCI

ELCO Connectors

2mm Hard-Metric Custom Design Worksheet

Fax To: Elco Connectors
North America: Fax: 843-626-5814
Tel: 843-946-0634

Europe: Fax: ++44 (0)1252 770001
Tel: ++44 (0)1252 770000

Asia-Pacific: Fax: (65) 350-4880
Tel: (65) 258-2833

Name _____ Title _____

Company _____ email _____

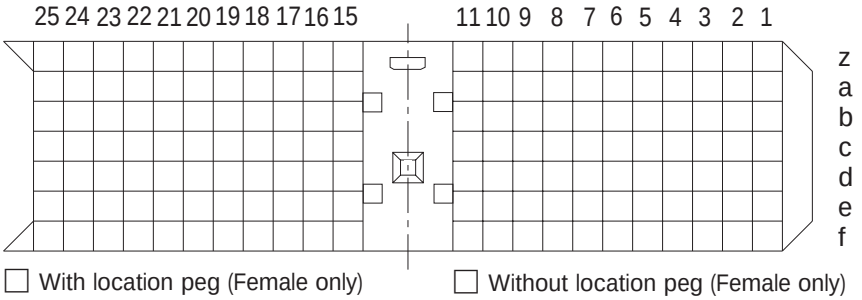
Address _____

City _____ State _____ Zip _____

Telephone _____ Fax _____

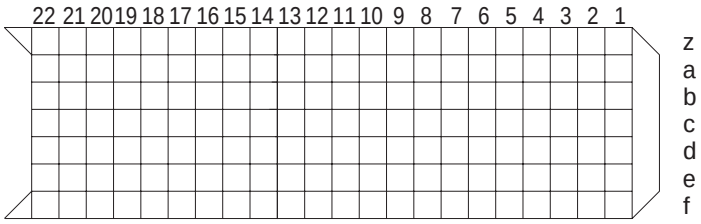
For special loading configuration for your application, use this form. Select the grid diagram that applies to the type connector style you need. Fill in each block with the pin style (from the table) that you need. Please leave unloaded positions or rows blank.

TYPE A

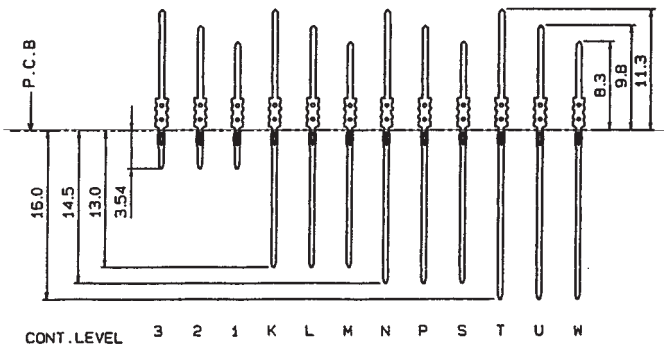


☐ With location peg (Female only) ☐ Without location peg (Female only)

TYPE B (22 POSITIONS)



CONTACT STYLES



ELCO Connectors

2mm Hard-Metric Custom Design Worksheet

Fax To: Elco Connectors
North America: Fax: 843-626-5814
Tel: 843-946-0634

Europe: Fax: ++44 (0)1252 770001
Tel: ++44 (0)1252 770000

Asia-Pacific: Fax: (65) 350-4880
Tel: (65) 258-2833

Name _____ Title _____

Company _____ email _____

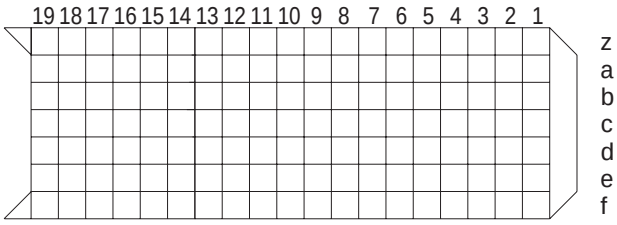
Address _____

City _____ State _____ Zip _____

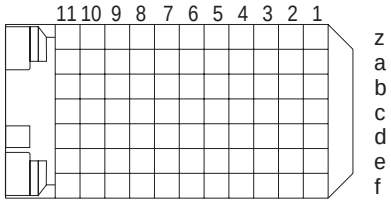
Telephone _____ Fax _____

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.

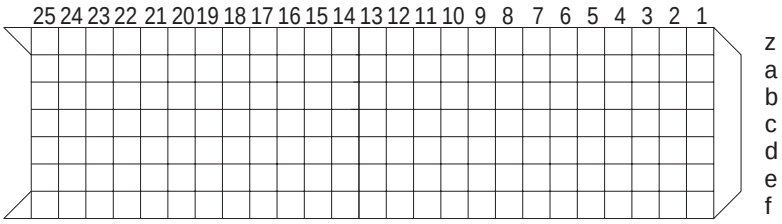
TYPE B (19 POSITIONS)



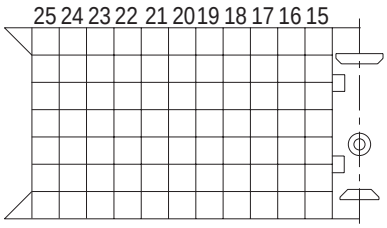
TYPE C



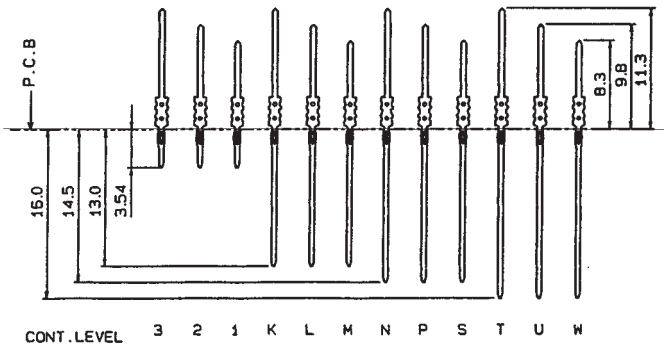
TYPE B (25 POSITIONS)



TYPE M



CONTACT STYLES



Internet/FAX/CD Rom/Software

Need Additional Information on AVX Products

Internet –

For more information visit us on the worldwide web at http://www.avxcorp.com

FAX Back Service –

Just dial 1-800-700-2860 and request the index for additional catalog information faxed to your FAX number.

CD ROM –

Or get in touch with your AVX representative for a CD Rom or copies of the catalogs and technical papers.

Software –

Comprehensive capacitor application software library which includes:

SpiCap (for MLC chip capacitors)
SpiTan (for tantalum capacitors)
SpiCalci (for power supply capacitors)
SpiMic (for RF-Microwave capacitors)

AVX Products

PASSIVES

Capacitors
- Multilayer Ceramic
- Tantalum
- Microwave
- Glass
- Film
- Power Film
- Power Ceramic
- Ceramic Disc
- Trimmers

Resistors
- Chip
- Networks/Arrays
- Potentiometers

Timing Devices
- Resonators
- Oscillators
- Crystal

Filters
- EMI
- Bulk
- Saw
- Dielectric

Thin Film
- Inductors
- Fuses
- Capacitors

Integrated Passive Components
- Low Inductance Chip Arrays
- "Z" Chips
- Capacitor Arrays
- Dual Resonance Chips

Voltage Suppressor, Varistors and Thermistors

Acoustical Piezos

Ferrites

CONNECTORS

- 2mm Hard-Metric for CompactPCI®
- Automotive Connectors
- Board to Board Connectors – SMT and Through-Hole
- Card Edge
- Compact Flash
- Custom Designed Connectors
- Customized Backpanel, Racking and Harnessing Services
- DIN 41612 Connectors
- Insulation Displacement Connectors
- I/O Connectors
- Memory Card Headers and Sockets
- MOBO™, I/O, Board to Board and Battery Connectors
- PCMCIA
- Press-fit Connectors
- Torson, 1.27mm (.050") Board to Board Connectors
- Varicon®
- Wire to Board, Crimp or IDC

Elco – World Class Connections

USA

AVX Myrtle Beach, SC
Corporate Offices
Tel: 843-448-9411
FAX: 843-626-5186

AVX Northwest, WA
Tel: 360-669-8746
FAX: 360-699-8751

AVX North Central, IN
Tel: 317-848-7153
FAX: 317-844-9314

AVX Northeast, MA
Tel: 508-485-8114
FAX: 508-485-8471

AVX Mid-Pacific, CA
Tel: 408-436-5400
FAX: 408-437-1500

AVX Southwest, AZ
Tel: 602-539-1496
FAX: 602-539-1501

AVX South Central, TX
Tel: 972-669-1223
FAX: 972-669-2090

AVX Southeast, NC
Tel: 919-878-6357
FAX: 919-878-6462

AVX Canada
Tel: 905-564-8959
FAX: 905-564-9728

EUROPE

AVX Limited, England
European Headquarters
Tel: ++44 (0)1252 770000
FAX: ++44 (0)1252 770001

AVX S.A., France
Tel: ++33 (1) 69.18.46.00
FAX: ++33 (1) 69.28.73.87

AVX GmbH, Germany - AVX
Tel: ++49 (0) 8131 9004-0
FAX: ++49 (0) 8131 9004-44

AVX GmbH, Germany - Elco
Tel: ++49 (0) 2741 2990
FAX: ++49 (0) 2741 299133

AVX srl, Italy
Tel: ++390 (0)2 614571
FAX: ++390 (0)2 614 2576

AVX sro, Czech Republic
Tel: ++420 (0)467 558340
FAX: ++420 (0)467 558345

ASIA-PACIFIC

AVX/Kyocera, Singapore
Asia-Pacific Headquarters
Tel: (65) 258-2833
FAX: (65) 350-4880

AVX/Kyocera, Hong Kong
Tel: (852) 2-363-3303
FAX: (852) 2-765-8185

AVX/Kyocera, Korea
Tel: (82) 2-785-6504
FAX: (82) 2-784-5411

AVX/Kyocera, Taiwan
Tel: (886) 2-2696-4636
FAX: (886) 2-2696-4237

AVX/Kyocera, China
Tel: (86) 21-6249-0314-16
FAX: (86) 21-6249-0313

AVX/Kyocera, Malaysia
Tel: (60) 4-228-1190
FAX: (60) 4-228-1196

Elco, Japan
Tel: 045-943-2906/7
FAX: 045-943-2910

Kyocera, Japan - AVX
Tel: (81) 75-604-3426
FAX: (81) 75-604-3425

Kyocera, Japan - KDP
Tel: (81) 75-604-3424
FAX: (81) 75-604-3425

Contact:

A KYOCERA GROUP COMPANY

http://www.avxcorp.com