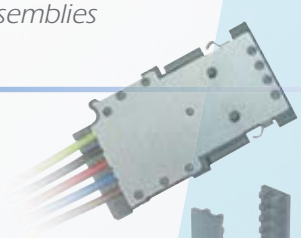
MERITEC®
Innovative-Interconnect Solutions

A Qnnect Company

Design Through Manufacture of
High-Performance-Interconnect Systems,
Connectors & Cable Assemblies



2-mm Advantage Concept to Connection

2mm HPM

High-Performance Metric

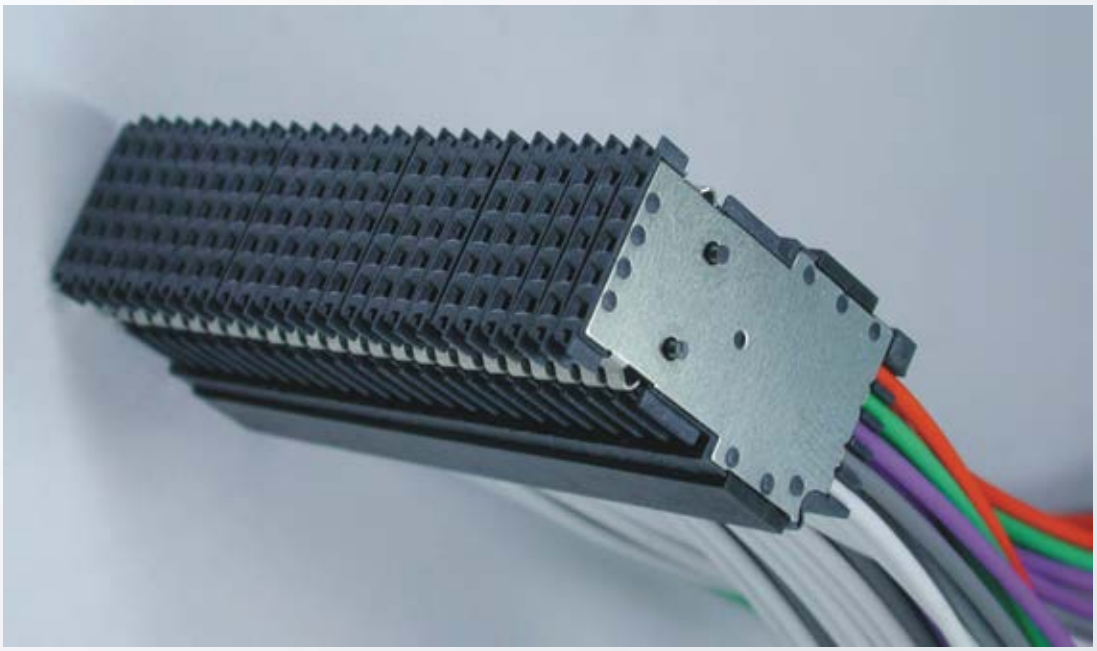
2mm HPM Brochure.pdf

Members
VITA SOSA PCI SIG

Certified System
SAI GLOBAL
ISO 9001:2015

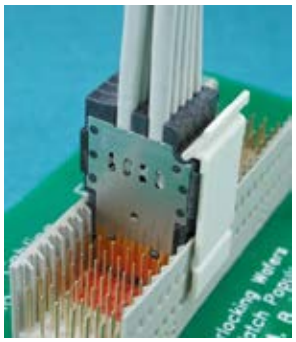
Solving Interconnect Problems Quickly Since 1966

the Xtreme High-Speed Xperts



Meritec 2-mm HPM Cable Systems

Applications



Meritec cable assemblies are a modular solution for high-performance backplane interconnect requirements. They are designed to mate and work reliably with standard 2mm connector shrouds. The interlocking stackable wafers match the popular IEC-61076-4-101 types A, B, and C housings, as well as the popular B22 shroud utilized for rP2/rP5 Compact PCI I/O applications.
The shroud system is well suited for rugged applications due to its unique retention system. By affixing a spring-loaded thumb latch to the shroud and seating the unit, the cable assembly will lock tightly in place. This finished system securely retains the cable connector against the strain of a cable bundle. The self-latching action of the spring-loaded design is particularly convenient for hard-to-reach locations.

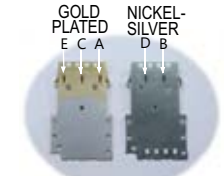
Cable Choices

Meritec will supply the finished cable assembly to your exact specifications. We offer a wide choice of in-stock, affordable cables to meet Customer requirements. These include high performance twinax, shielded parallel conductors, and conventional coax in a variety of conductor gauges and wire construction. Color coded 24 and 26 AWG hookup cable is also available in mulitple colors for ease of traceability of second end termination. (See page 10 for additional cable information.)

Stacking Features

Stackable housings, featuring molded alignment pins, can be joined together to form all standard stack configurations up to 25 wafers. Custom stacking beyond 25 wafers and optional “Keying spacers” are available. Assemblies are locked together using Meritec’s unique double row Polymer Locking Rails. Optional metal rails are available for multiple-shield connections.

Shield Options

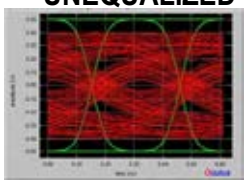


EXAMPLE TWO (*OF SEVERAL*)
CONTACT TO SHIELD CONNECTIONS

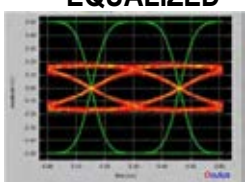
Meritec’s Shield Design offers a vast choice of connection configurations. Shields may be connected to any or all of the contact positions (A,B,C,D,E). The drain wires may be connected mechanically to the shield or through a lanced contact position, as shown in picture.
Choose between gold plated or nickel-silver shields.

Meritec’s Optional Passive Equalization Circuits (PEC)

UNEQUALIZED



EQUALIZED



Meritec’s capabilities include development of Passive Equalization Circuits (PEC) for Customer specific applications for the HPM- 5, HPM-8, and Right Angle HPM-5. PEC can enhance the performance of 2mm cables to allow high data rates over longer distances. Additionally, it can compensate for losses in the printed circuit board to provide complete signal path equalization. Eye pattern charts (left) show the effectiveness of chip-to-chip equalization at 3.250 Gb/s including 3 meters of cable, 4 connectors, and 32 inches of Fr4 traces.
PEC are developed for specific Customer specifications with associated NRE costs.

(Green trace is the stimulus)

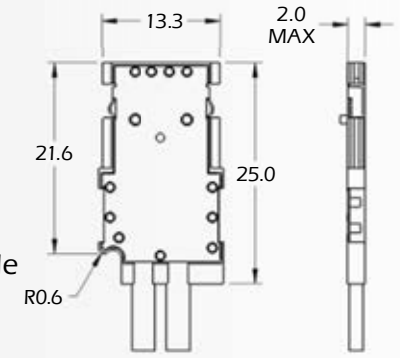
Three Unique 2-mm Designs

Meritec's interlocking-stackable wafers are compatible with industry standard 2-mm shrouds including IEC-61076-4-101 A, B, & C Compact PCI I/O and VME 64, and will mate with all popular latch systems. The welded terminations provide a molecular bond between wire and contact. Our inter-modular shields feature programmable-ground positions.

Now available with Passive Equalization Circuits (PEC) as an option.

HPM 1x5+2

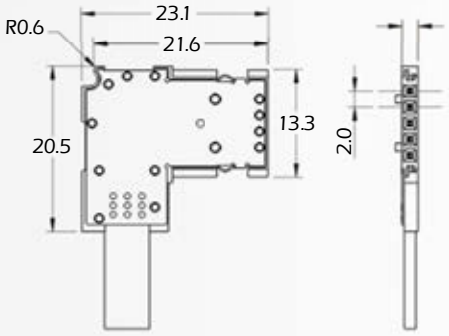
Meritec's 1x5 Stackable-Axial Wafers feature the flexibility to terminate with a variety of cable types including Parallel Pairs, Hook-Up Wire, Coax, and Twisted Pair ranging from 22 through 36 AWG. Programmable Shield Lancing allows a connection between the shield and any or all of the contact positions. The housing-retention point is compatible with ERNI's spring-loaded latch arm and other popular 2-mm latching shrouds. Choose between gold plated or nickel-silver shields.



Dimensions in mm

HPM 1x5+2 Right Angle

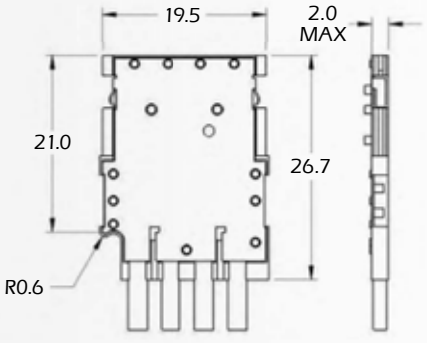
Meritec's Right Angle 1x5+2 offers the same high quality as the Axial HPM 1x5+2 with the advantage of an overall height of 1" for applications with restricted spacing. Assembly will insert and latch into all popular 2mm shrouds. Right-Angle wafer accepts cables from 24 AWG to 36 AWG.



Dimensions in mm

HPM 1x8+2

Meritec's HPM-8 Eight-Row System increases signal density per-linear inch and mates with all IEC61076-4-101 compatible shrouds. The HPM-8 features a variety of cables for single-ended or balanced-line circuitry ranging from 24 AWG to 36 AWG.



Dimensions in mm

Off-the-Shelf 2-mm Standard Offerings

2mm Cable Assemblies in popular lengths, pinouts, cable styles, and related accessories. Limited quantities can be shipped within 72 hours of order placement. Visit our website at www.meritec.com to place your order or contact our Customer Service Representatives at **888-MERITEC (888-637-4832)**. For pricing information visit www.meritec.com/product-category/cable-assemblies/2mm-hpm/

HPM 1x5+2 Hook Up Cable 980290-024, 980290-48, 980290-072

- 1x5 DOUBLE END ASSEMBLY
- 5 LINES OF COLOR CODED 24 AWG TFE HOOK-UP (700290-xx)
- AVAILABLE IN 24,48 & 72 INCH LENGTHS
- STACKABLE
- PINOUT "SSSSS"
- RoHS COMPLIANT

980290-024
980290-048
980290-072

HPM 1x5+2 Parallel Pair 980319-024R1, 980319-048R1

- 1x5 DOUBLE END ASSEMBLY
- 2 LINES 100 OHM SHIELDED 28/30 AWG PARALLEL PAIR (700319-01)
- AVAILABLE IN 24 & 48 INCH LENGTHS
- STACKABLE
- PINOUT "+SSGSS+"
- RoHS COMPLIANT

RoHS COMPLIANT (R1)
980319-024R1
980319-048R1

HPM 1x5+2 Coax 980129-024R1, 980129-048R1

- 1x5 DOUBLE END ASSEMBLY
- 4 LINES (700129) 50 OHM SHIELDED 26 AWG COAX
- AVAILIBLE IN 24 & 48 INCH LENGTHS
- STACKABLE
- PINOUT "+SSGSS+"
- RoHS COMPLIANT

RoHS COMPLIANT (R1)
980129-024R1
980129-048R1

[2]HPM 1x5+2 CAT 5e TO RJ45 980132-040R1

- STACKABLE WAFERS FOR APPLICATIONS REQUIRING MULTIPLE RJ 45 CONNECTORS
- 1 LINE CAT 5e CABLE W/ RJ 45 CONNECTOR
- 40" LENGTH
- STANDARD PATCH CABLE PIN-OUT
- RJ 45 OVERMOLDED STRAIN RELIEF
- SNAGLESS BOOT
- CHANGEABLE PIN-OUT AND LENGTH BY SIMPLE REPLACEMENT OF RJ45 CONNECTOR
- RoHS COMPLIANT

WIRE COLOR	RJ 45 POSITION	2MM WAFER & POSITION
ORANGE/WHITE	PIN 1	WAFER 1 "A"
ORANGE	PIN 2	WAFER 1 "B"
GREEN/WHITE	PIN 3	WAFER 2 "A"
BLUE	PIN 4	WAFER 1 "D"
BLUE/WHITE	PIN 5	WAFER 1 "E"
GREEN	PIN 6	WAFER 2 "B"
BROWN/WHITE	PIN 7	WAFER 2 "D"
BROWN	PIN 8	WAFER 2 "E"

RoHS COMPLIANT (R1)

*See page **6** for additional Off-the-Shelf 2-mm products available in stock.*
Standard-product offerings are non-returnable / Prices available at www.meritec.com or 888-Meritec (637-4832)

Off-the-Shelf 2-mm Standard Offerings

STOCK - TWO WEEKS. TO PLACE YOUR ORDER VISIT US AT www.meritec.com OR CONTACT CUSTOMER SERVICE AT 1-888-MERITEC (1-888-637-4832)

For Pricing visit www.meritec.com/product-category/cable-assemblies/2mm-hpm/

HPM 1x5+2 Blank Wafer 980937-4

- 1x5 Blank wafer assembly
- Stackable
- Packaged in sets of 4
- RoHS compliant

Package of 4

Note: Blank wafers are not intended for wire termination. To be used as fill wafers for blank positions in stacking customizes assemblies where populated wafers are not required.

HPM 1x5+2 Key Plugs 980295-04R1

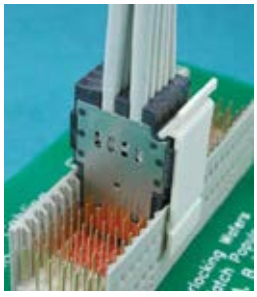
- HPM Cable assembly Key Plug
- Common Application - Compact PCI architecture P1 & P4
- Packaged in sets of 4
- RoHS compliant
- Stacks with all Meritec HPM 1X5+2 cable assemblies

Package of 4

25 Position Locking Rails 980303-25-10

- 2 through 25 Position locking rail
- Packaged / sold in sets of 10
- Customer cut to size
- RoHS compliant

Package of 10



ERNI Latch Arm 980548-4

- ERNI P/N 064219
- Packaged / sold in quantities of 4
- RoHS compliant

Package of 4

See page **5** for additional Off-the-Shelf 2-mm products available in stock.
All 2-mm Standard product offerings are non cancel-able and non-returnable.
Prices available at www.meritec.com/product-category/cable-assemblies/2mm-hpm/
or 888-Meritec (637-4832)

Request for Proposal

Thank you for your interest in Meritec and our 2-mm HPM Cable assemblies. To better understand your application requirements, please provide as much information as possible. This information will assist in verification of product compliance. After review by engineering, a quote will be generated. Please provide complete contact information with the request. Pages 7–10 will provide additional information to assist in the assembly definition. Please FAX (440)354-5692 or email to Meritec at info@meritec.com.

Date:

Company Name: Phone:

Address: Street

City, State Zip Code

Program Name:

Purchasing Contact: E-mail: Purchasing E-mail

Engineering Contact: E-mail: Engineering E-mail

Product Description: Initial Quantity:

Product Objective: Other (explain)

Build Type: Other (explain)

Explain Needs: (eg. size, configuration, markings/identification, material, reliability, etc.)

Requirements of Product

If exists, Customer P/N(s): Revision Level(s): P/N Revision

If exists, Drawing Number(s): Revision Level(s): Drawing Number Revision

Start Production Date(s):

Intended Use:

Specific Workmanship Standards:

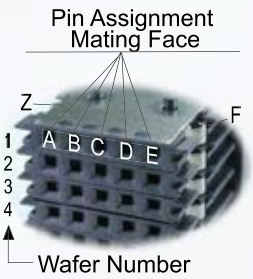
Specific Material Requirements: REACH ☐ RoHS ☐ Conflict Minerals: ☐ Raw Material Declaration: ☐ Counterfeit Parts ☐

Other (List):

First Piece Approval Required? NA Date: First Article Report Required? NA Date:

Regulatory/ Statutory Requirements:

Quote Request Form



Latch Point
(Note relationship to "E" position)

Table 1: Connector Styles

STYLE	DESCRIPTION
01	1x 5+2 Axial Wafer
02	1x 5+2 Right Angle Connector
03	1x 8+2 Axial Connector
04	No Connector
05	Special (per Customer specifications)

Select connector for 1st end ☐

Select connector for 2nd end ☐

Number of Wafers (1-25) ☐☐

Table 2: Wafer Configuration

Pinout Code	Contact position Z	A	B	C	D	E	F
01	+	S	S	G	S	S	+
02	+	S	S	G	N/C	N/C	+
03	+	N/C	N/C	G	S	S	+
04	+	S	G	N/C	S	G	+
05	+	G	S	N/C	G	S	+
06	+	S	G	N/C	N/C	N/C	+
07		N/C	N/C	N/C	S	S	
08	+	G	S	N/C	N/C	N/C	+
09	+	G	S	N/C	S	S	+
10	+	N/C	N/C	N/C	G	S	+
11		S	S	N/C	S	S	
12	+	S	S	N/C	S	G	+
13		S	S	S	S	S	
14	Custom Pinout						

S = Signal
G = Ground
n/c = No Connection

Select pinout for Wafer number

Connector #1

Pinout																									
Wafer#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Connector #2

If assembly is single ended leave blank

Pinout																									
Wafer#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Table 3: Standard Cable Styles

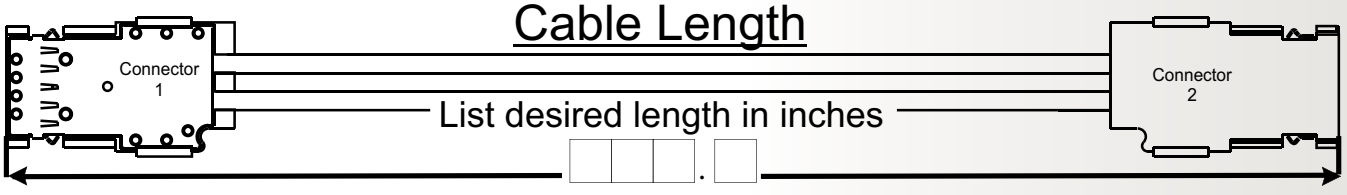
Style	Description	
01	100Ω Parallel Pair	26/28AWG
02	100Ω Parallel Pair	28/30AWG
03	75Ω Coax	30
04	50Ω Coax	30
05	Hook-up Wire	24
06	Hook-up Wire	26
07	Specified Cable	

Select cable types

Style																									
Wafer #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

(See page **10** for additional cable specifications.)
Style 07 requires specifications to be supplied by Customer.

Cable Length



List desired length in inches ☐☐☐.☐

Quote Request Form

Example of Custom Point-to-Point Pinouts

Pinout Code	Contact position Z	A	B	C	D	E	F
01	+	S	S	G	S	S	+
02	+	S	S	G	N/C	N/C	+
03	+	N/C	N/C	G	S	S	+
04	+	S	G	N/C	S	G	+
05	+	G	S	N/C	G	S	+
06	+	S	G	N/C	N/C	N/C	+
07		N/C	N/C	N/C	S	S	
08	+	G	S	N/C	N/C	N/C	+
09	+	G	S	N/C	S	S	+
10	+	N/C	N/C	N/C	G	S	+
11		S	S	N/C	S	S	
12	+	S	S	N/C	S	G	+
13		S	S	S	S	S	
14	Custom Pinout						

	Z	A	B	C	D	E	F
1		1A	1B	1C	1D	1E	
2		2A	2B	2C	2D	2E	
3		3A	3B	3C	3D	3E	
4		4A	4B	4C	4D	4E	
5		5A	5B	5C	5D	5E	
6		6A	6B	6C	6D	6E	

Standard Connector Positions

Chart on left shows pin assignment for a six stack assembly. When completing chart in lower section, connector 1 must follow this pin assignment

Cable Style	Pinout Code
05	13
03	06
02	02
01	01
06	14

	Z	A	B	C	D	E	F
1		1A	1B	1C	1D	1E	
2	+	2A	2B				+
3	+	3A	3B	3C			+
4	+	4A	4B	4C	4D	4E	+
5							
6		6A		6C		6E	

Connector 1 mating face

	Z	A	B	C	D	E	F
1	+	3C	3B	3A			+
2	+				2A	2B	+
3	+	4D	4E	4C	4A	4B	+
4							
5		1A	1B	1C	1D	1E	
6		6A		6C		6E	

Connector 2 mating face

+ = with the optional inter-module shield, the Z and F rows will be committed to the ground through one or more additional wafer positions.

Wafers, such as # 5 in the example above, with no pin assignment will be quoted as a Blank wafer consisting of a housing, header, spacer and shield.

Custom Point to Point Pinout Worksheet

Complete Matrix for Custom Signal/Ground Configurations

Cable Style	Pinout Code		Z	A	B	C	D	E	F
		1							
		2							
		3							
		4							
		5							
		6							
		7							
		8							
		9							
		10							
		11							
		12							
		13							
		14							
		15							
		16							
		17							
		18							
		19							
		20							
		21							
		22							
		23							
		24							
		25							

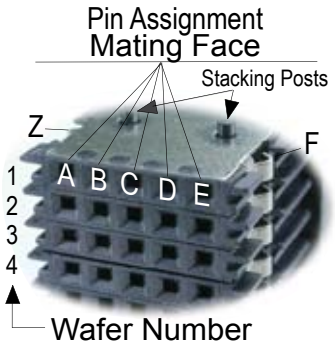
CONNECTOR 1 MATING FACE

	Z	A	B	C	D	E	F
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

CONNECTOR 2 MATING FACE

Quote Request Form

Place mark in appropriate box

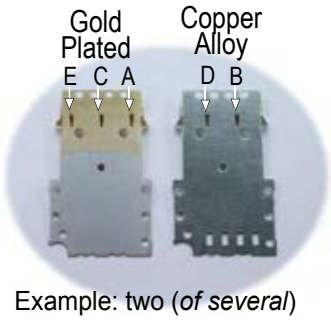


Label Requirements

List specific information in space provided.

YES NO

Are stacking posts removed on wafer #1? ☐ ☐



Example: two (*of several*) Contact>Shield connections

Shield Options

Meritec's design of shielded wafers, standard on all 2mm connectors, offers the choice of connection configurations between contacts and/or drain wires. Shields may be connected to any or all of the contact positions (A,B,C,D,E). A drain wire(s) may be connected to the shield through a contact(s) by way of a lanced tab in the shield (as shown in picture) or soldered directly to the shield .Selective Gold plated shields are optional.

Select One **Copper Alloy** ☐ **Selective Gold plated** ☐

Additional Features Available

- Metal sleeving, FR, FRDM, polyester, and Halar ® ECTFE (Halar is a registered trademark of Solvay Solexis)
- Standard and custom backshells
- Drawings (there is a Non- Recurring Engineering, NRE, charge per drawing)
- Contact Meritec with any questions or special requirements

MERITEC
1359 West Jackson Street
P.O. Box 110, Painesville, OH 44077 USA
Phone: 888-MERITEC (888-637-4832) or 440-354-3148
Fax: 440-354-5692

First Article Information and Waiver

In a continuing effort to ensure Customer satisfaction, Meritec has a policy of a 1st part build. This permits the Customer to inspect and approve one cable assembly before proceeding with the balance of the order. The option of declining the 1st article process is available if this waiver is authorized by signing below and faxing to a Meritec Customer Service Representative at **440-354-5692**. By signing this waiver, the Customer accepts full responsibility for the product design and agrees to accept and pay for the complete order as built.

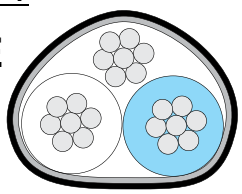
Authorized Signature _____ **Title**_____ **Date**_____

Company_____

Standard-Cable Specifications

700369-01

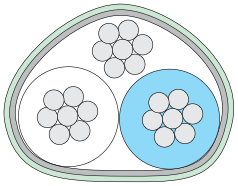
STYLE 01



100 ohm Shielded Parallel Pair
26/28 AWG Stranded Copper
a) White b) Blue Foam Fluoropolymer Insulation
FEP Jacket
Aluminum/Polyester Tape Shield
Time Delay NS/ft 1.2

700319-01

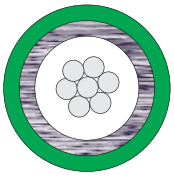
STYLE 02



100 ohm Shielded Parallel Pair
28/30 AWG Stranded Copper
a) White b) Blue Foam Poly Insulation
PVC Jacket
Aluminum/Polyester Tape Shield
Time Delay ns/ft 1.35

700152

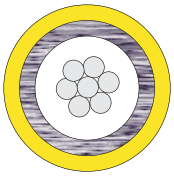
STYLE 03



75 ohm Coax with Braided Shield
30 AWG Stranded Copper
Foam Fluoropolymer Insulation
FEP Jacket
TPC Braid 95% Shield
Time Delay ns/ft 1.2

700129

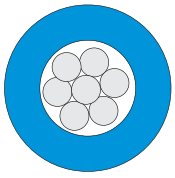
STYLE 04



50 ohm Coax with Braided Shield
26 AWG Stranded Copper
Foam Fluoropolymer Insulation
FEP Jacket
TPC Braid 95% Shield
Time Delay ns/ft. 1.2

700290-Color

STYLE 05

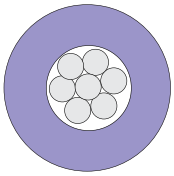


24 AWG HOOK UP / TFE JACKET

700290-00R1	Green	700290-05R1	White
700290-01R1	Gray	700290-06R1	Brown
700290-02R1	Black	700290-07R1	Red
700290-03R1	Orange	700290-08R1	Yellow
700290-04R1	Violet	700290-09R1	Blue

700575-Color

STYLE 06



26 AWG HOOK UP / FEP JACKET

700575	Green	700575-05	White
700575-01	Gray	700575-06	Brown
700575-02	Black	700575-07	Red
700575-03	Orange	700575-08	Yellow
700575-04	Violet	700575-09	Blue

Custom Applications and Designs

Meritec's technologically advanced Tooling / Machining Division boasts the most skilled and experienced machinists coupled with state-of-the-art equipment. Our extensive engineering capabilities along with the vast resources of our Molding and Stamping Divisions make Meritec a leading force in custom cable manufacturing. Let Meritec design a custom configuration to suit your specific application. Contact our Customer Service Department for further information at **1-888-MERITEC** (1-888-637-4832).

Custom Terminations

- BNCs
- Circular Connectors
- USB, SATA, D-Subs
- Crimp-on Connectors
- Customer Requests
- HSSDC2s
- RJ45s
- SMAs
- SMBs
- IDC Connectors

Custom Shielding

- Metal Expando
- Halar ® ECTFE Sleeving (Halar is a registered trademark of Solvay Solexis)
- Multi-Conductor Jacketed Cable
- EMI/RFI Protection
- EMI Gasket Seals

Custom Designed Backshells

- In-house Machining
- Die Casts
- Custom Retention Designs/Keying Features
- Multiple Exit
- High Volume Molded Thermoplastic

Custom Configurations

- Right Angle Exit
- Right Angle Wafers
- Custom Stacking (OVER 25 Wafers)
- Metal Locking Rails
- 1X8+2 Wafers

Custom Connectors

- VPX Plus® Cabling system
- Hercules® High Speed Circulars
- D.T.C. (.032 Spacing)
- CX4

Cable-System Specifications and Performance

General Connector Specifications

Contact Pitch	2.0mm
Temperature Range	-55 Degrees C to +125 Degrees C
Performance	≥250 mating cycles

Forces associated with Pin-to-Any Contact

Normal force	0.86 N 88gm
Mating Force	0.36N 37gm Per Pin
Withdrawal Force	0.28N 29gm Per Pin

Housing and Overmold	Plastic Material	Glass Filled Liquid Crystal Polymer (LCP)
	Flammability	UL-94V-0
Locking Combs (Rails)	Plastic Material	Glass Filled Liquid Crystal Polymer (LCP)
	Flammability	UL-94V-0

Shields	Base Metal Material	Copper Alloy
	Optional Selective Gold Plating	30 micro Inch Gold / 50 micro Inch Nickel

Contact	Base Metal Material	Copper Alloy
	Standard Selective Gold Plating	30 micro Inch Gold / 75 micro Inch Nickel

Electrical Specifications and Performance

Insulation Resistance	Contact-to-Contact ≥10 Giga Ohms@ 100VDC Contact-to-Shield ≥10 Giga Ohms@ 100VDC
Dielectric Withstanding Voltage	750 VAC
Voltage Rating	250 VAC
Current Rating per Contact @ 70 Degrees C Ambient and 10 Degrees C Rise Maximum	1AMP

Application Notes

Contact Pinout and Numbering Schemes for VME64x and CompactPCI Applications.

The backplane layouts, shown on this and the following page, Figure 1 and Figure 2 depict the nomenclature and numbering conventions used in the CompactPCI specification and the IEEE 1101.10 Standard (VME64x applications). The drawings also illustrate the 2mm HM shroud orientation viewed from the rear of the backplane/midplane. Note the alignment, shroud side, and latch referenced. This application notation clearly identifies pinout differences existing between the standards noted above and should serve to clarify such differences before cable requests are assembled and shipped for installations. VITA 30-199x, 2mm Connector Practices for Euroboard Systems, identifies these differences in applications involving CompactPCI, VME and VITA.

Meritec will wire the assemblies per the numbering scheme established in accordance with IEEE 1101.1, IEEE 1101.10, IEC 61076-4-101, and VITA 30-199x style V. The VME64x application notation above conforms to these specifications.

Reference documents:

- IEEE 1101.11 Standard for Mechanical Rear Plug-in Units for Microcomputers using the IEEE 1101.1 and the IEEE 1101.10
- IEEE 1101.10 Standard for Mechanical Core Specification for Microcomputers using IEC 603-2 Connectors
- Equipment Practices
- IEC 61076-4-101
- VITA 1.1-1997 VME 64 Extensions
- PICMG 2.0 Release 3.0 CompactPCI Core Specifications
- VITA 30-1997 2mm Connector Practices for Euroboard System

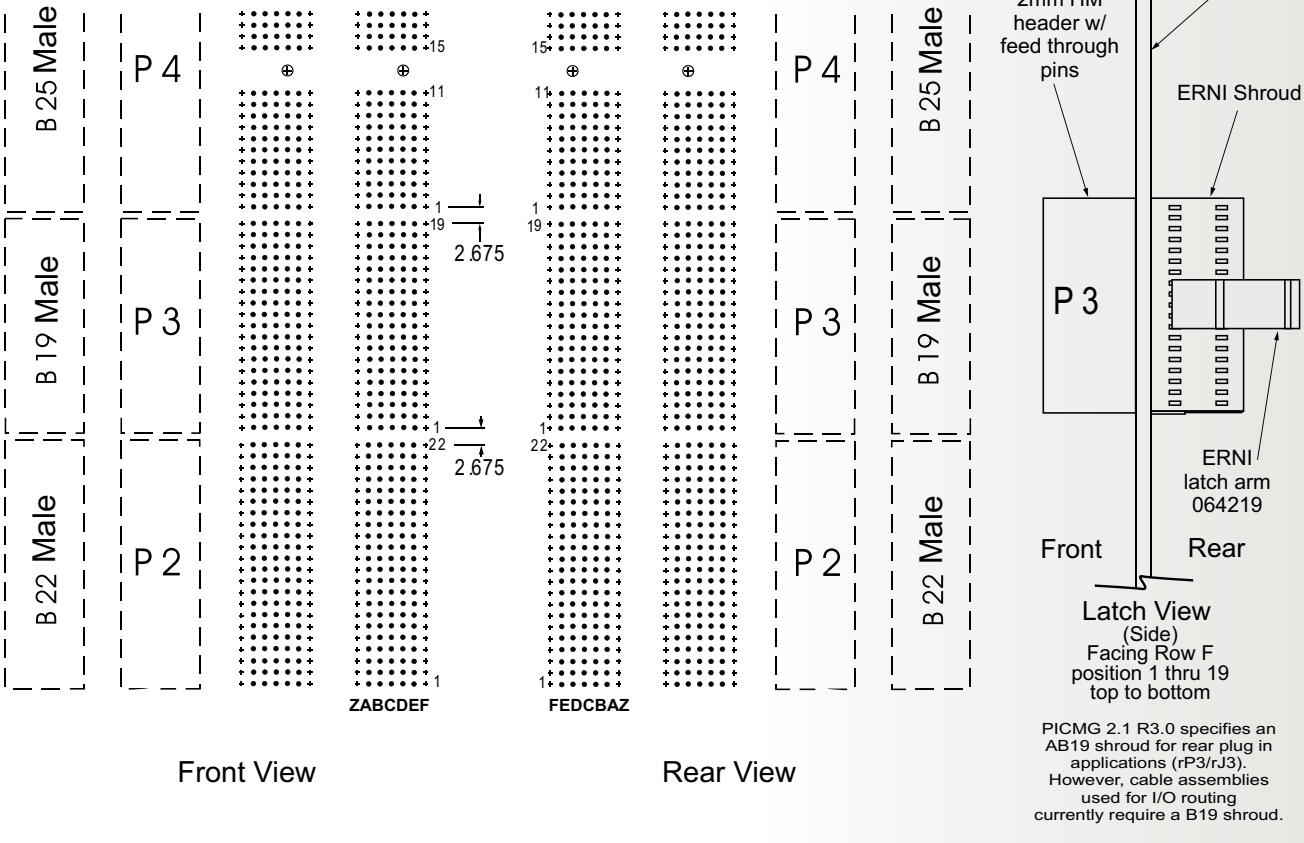
CompactPCI Applications.

As is typical in some telecommunications, the CompactPCI specification numbers the signals starting from the bottom up. These differences can complicate the I/O portion of the system if not identified as “application specific” in the beginning.(Note bothviews shown below in Figure 1). These views, front and rear, show the A1 position located at the bottom-slot 1 edge of the pinfield.

The shroud and latch orientations are shown to depict proper alignment when the cable interface is attached.

Figure 1

Figure 1 - 6U Compact PCI Backplane Layout



PICMG 2.1 R3.0 specifies an AB19 shroud for rear plug in applications (rP3/rJ3). However, cable assemblies used for I/O routing currently require a B19 shroud.

Application Notes

Shroud Orientation

When shrouds are used on the rear of the backplane, care must be taken to align the shrouds properly. The correct orientation will depend upon the configuration of the rear plug-in cards. For most applications following the “inline” configuration, the rear shrouds will have the convex and detail facing down as depicted in the circle in Figure 3. The “a” row of the shroud will match the “a” row of the male connector. This preferred orientation of the shroud will enable the cable system to be securely latched on the left side when viewing from the rear of the backplane, as shown in Figures 1 and 2.

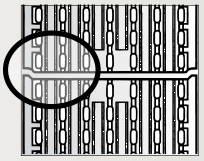


Figure 3

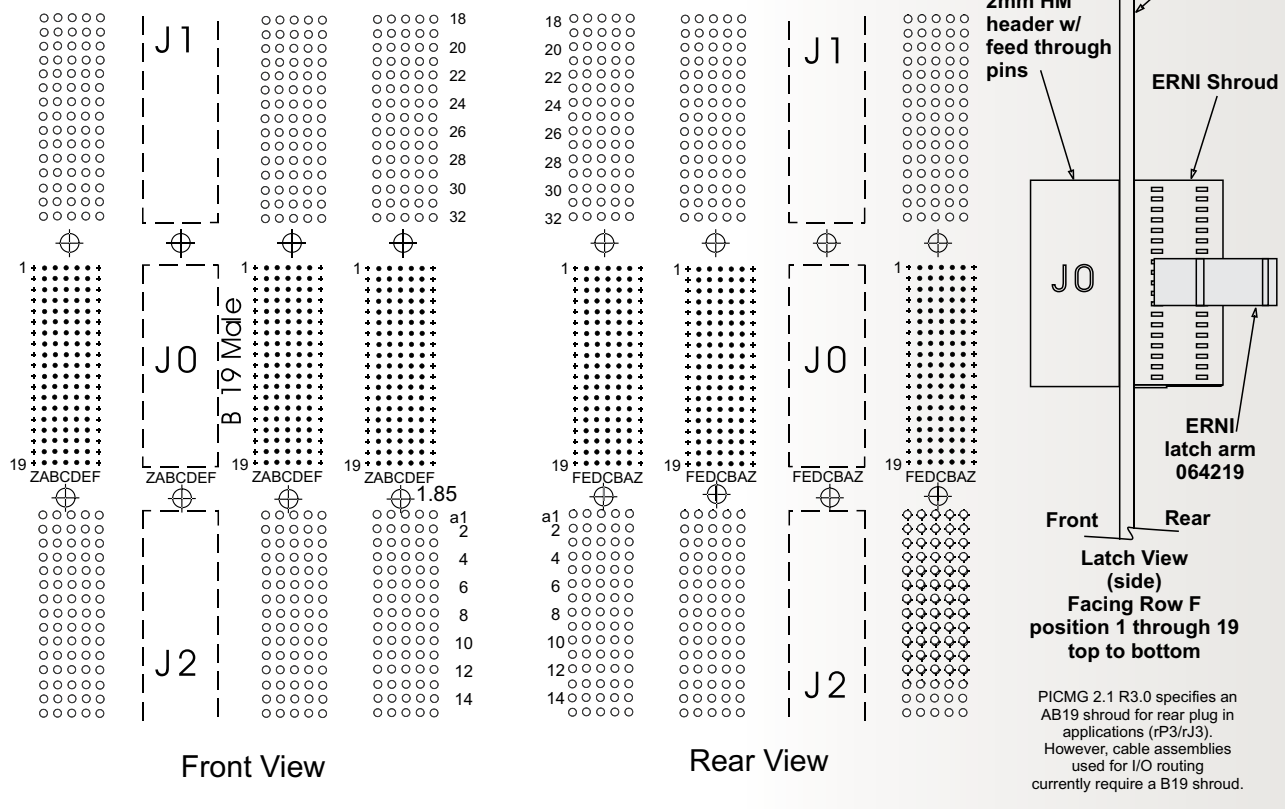
These Application Notes are intended to explain differences in numbering schemes commonly used with the extended 2mm HM series for I/O applications. The importance of these differences is to qualify the wiring issues surrounding single-ended and double-ended assemblies, as well as single- ended applications requiring labels on the unterminated end. The figures 1 and 2 on pages 13 and 14 clearly present the differences existing between the two standards that currently employ the 2mm HM connector system.

VME64x Applications

The IEEE 1101.10 Standard employs the same 19-position 2mm family of connectors as is used in VME64x applications. This center connector, located in slot JO/PO for VME64x backplane layouts shown below in figure 2 reveals pinout assignments with Row/Position A1 located at the top slot 1 edge of the pinfield. The depictions below describe the front and rear views respectively, and the corresponding A1 Location. This clarification is needed to properly identify where A1 is located with respect to the cable assembly and application being employed. Note that the latches, which ruggedize the interface, are depicted on the left side of the shroud when viewing the slots from the rear.

Figure 2

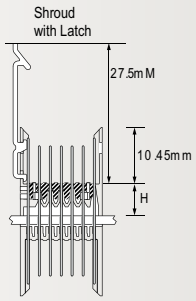
Figure 2 - VME64x Backplane Layout



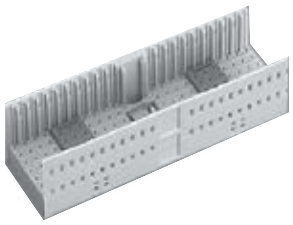
2-mm Shrouds and Latch

End View and Latch

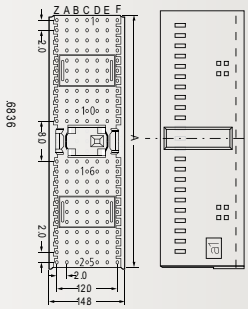
Meritec cable assemblies will mate to all popular 2mm shrouds. This page provides limited information on 2mm shrouds manufactured by ERNI. For further information, contact your ERNI representative. Each shroud is available in four different base heights (3.9mm, 4.5mm, 5.3mm & 6.1mm).



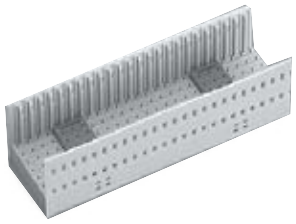
Type A Shroud



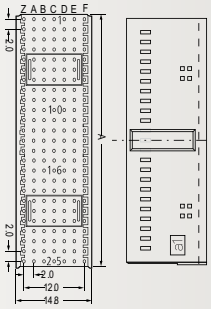
Type A shrouds have a multifunction area for coding keys (as shown at left). Available in 50mm and 38mm lengths.



Type B Shroud

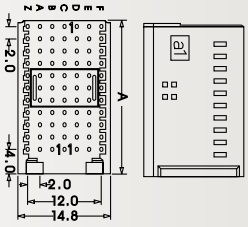


Type B shrouds have an unbroken contact field and no multifunction area. Available in 50mm, 44mm and 38mm lengths.



Type C Shroud

Type C shrouds are for end positions only. Shrouds are 25mm long.



MERITEC®
Innovative-Interconnect Solutions

1359 West Jackson Street • Painesville, Ohio 44077 USA
440-354-2100 • Fax: 440-354-5692 • 800-860-9014 • 888-MERITEC (637-4832)
www.meritec.com • E-mail: info@meritec.com

A Qnnect Company

www.connectorsunlimited.com
ISO Certification 9001:2015

NAICS# 334417 • 334418
334419 • 335929 • 335999

Cage Codes
Meritec 0RAG4
Connectors Unlimited 49MH9
Joy Signal Technology 1SJC3
Mold-Tech 1BCG6

Visit us online!

JOY SIGNAL TECHNOLOGY
A Qnnect Company

1020 Marauder Street
Chico, California 95973 USA
530-891-3551, Fax: 530-891-3599
888-891-3551 (Toll Free)
www.joysignal.com
E-mail: customerservice@joysignal.com

Connectors Unlimited (CUI) and Mold-Tech (MT) Divisions are now merged and DBA Meritec.