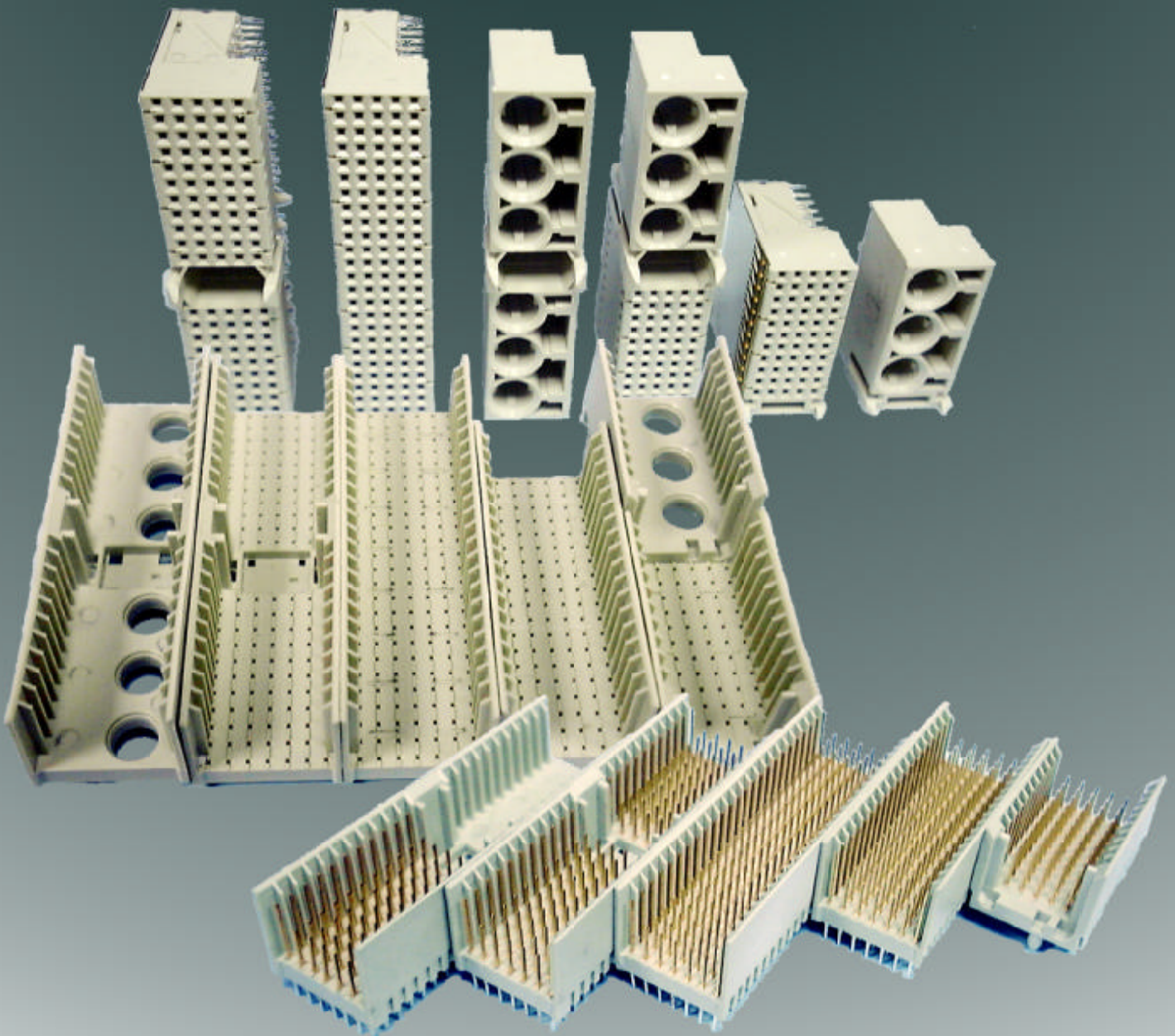

P2HM Series

2.0mm Hard Metric Connector System



Cannon



ITT Industries
Engineered for life

Don't Blink.

No industry in the world moves faster than electronics. Take a snapshot of it today, and it all changes by tomorrow.

When you need to bring your products to market more quickly, you most likely seek a partner who moves just as fast as you do. A company at the forefront with the latest ideas in products and service.

At ITT Cannon, we have made it our business to understand your world. Or should we say, the many parts of your world:

- The places in the world where you do business.
- The products you bring to the world.
- The service you require from suppliers to compete in the world.

ITT Cannon is a company with nearly 85 years of experience combined with the innovative spirit of electronic interconnects and network components.

ITT Cannon is part of ITT Industries, a leading worldwide diversified manufacturing company with 1997 sales of \$8.8 billion. At ITT Cannon, we are proud of a heritage that helped pioneer the electronics industry from its infancy in the early part of this century, to the highly advanced technologies of the present. Today, we serve nearly every industry in which the increased demand for reliable and innovative interconnect systems is critical:

- Computers (personal computers, portables and peripherals)
- Telecommunications (Network systems and services/LAN; mobile)
- Transportation (Automobiles, heavy-duty vehicles, rail and mass transit)
- Military/Aerospace (Commercial and military aircraft, defense and space)
- Industrial (Factory automation and instrumentation)
- Medical (Diagnostic equipment)
- Broadcasting
- Consumer products



Innovation

A commitment to concurrent engineering helps you reach your markets faster

Let us bring our spirit of innovation to your world. Experienced engineering teams located throughout the globe work hand-in-hand with our customers. And since these teams are thoroughly networked together, you benefit from 24 hour-a-day concurrent engineering capability. These teams advance your project from initial product concepts to final design and into production.

Our teams are experts in computer-based design, modeling and analysis to assure robust product designs. We are also well-versed in performance simulation, as well as verification of mechanical and electrical properties. Cannon utilizes Pro/ENGINEER from Parametric Technology Corporation. Pro/ENGINEER® allows us to develop products and manufacturing processes concurrently and to easily to evaluate multiple design alternatives. This means better designed products, produced faster and at a lower cost.

Cannon's Integrated Product Development process (IPD) allows us to minimize cycle time for first article and volume production.



Experience

Worldwide capacity to meet all of your delivery requirements

Our decades of manufacturing experience help us bring the latest products to your world. With automated manufacturing capacity strategically located in North America, Europe and Asia, we can produce products in either large or small quantities to quickly meet your exact requirements.

ITT Cannon is able to modify existing products to suit special customer requirements. With global manufacturing capacity in every continent, we are also able to source product from the location that best suits your needs. This means we have the flexibility to select the most advantageous shipping methods and other logistical options.

ITT Cannon has established Centers of Excellence for world class capabilities such as: machining, stamping, surface plating, molding, cable assembly and network systems technology - all utilizing the most advanced CAM equipment.

Plus, we've standardized our molds and dies worldwide, so that we can move processes anywhere in the world to benefit our customers with both consistent quality and flexibility. Cannon's manufacturing resources also fully comply with applicable environmental controls.



Reliability

We don't stop at "world class quality" - Continuous improvement is our standard

Our goal is to bring world class electronics to your world. This commitment to perfection has helped Cannon's global facilities earn ISO 9000 certification. We have invested in world class process controls for both assembly and component manufacturing.

Cannon has also met or exceeded the quality system requirements from all customers who have conducted audits. We participate in ship-to-stock programs with many of these customers worldwide and have received numerous quality and preferred supplier awards from customers throughout the world in each of the industries we serve.

We constantly benchmark and measure each of our processes to assure continuous improvement in every aspect of the products and services we offer customers.

Responsiveness

A singular focus on responding to your needs

We know that to be responsive, we must know your world inside and out: your particular company, your industry and your challenges. Each of ITT Cannon's thousands of employees worldwide is focused on responding to you with timely and dependable information - and on ensuring that we keep the commitments we make. For instance, our globally linked computer system tracks the status of your order anywhere in the world.

You also benefit from our field applications and sales network, which provides industry-specific knowledge to help you design in the best product for your application.

Our distribution network is one of the most extensive in the industry and can provide you off-the-shelf product to meet the most challenging delivery requirements.

An Invitation to Share Your World

Innovation. Experience. Reliability. Responsiveness.

At ITT Cannon, these are the strengths that we bring to our customers each and every day. Just as we have for nearly nine decades. We pride ourselves on a level of service and manufacturing know-how that has enabled us to lead our industry. Exceeding your expectations - not just meeting them - is how we approach every project.

With the world moving faster all the time, ITT Cannon is a partner who can help you get your products to market not just on time, but ahead of the competition.

At ITT Cannon, we realize that each customer we serve has their own special needs and expectations. That is why we would welcome the opportunity to discuss your project, your company, your industry - yes, your world.



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Technical Data

Spacing size	2.0mm
Housing	Glass-filled thermoplastic, UL94V-0 rated
Contact material	Phosphor bronze
Contact finish	30μ" minimum gold on mating area, tin on tails, all over nickel underplated
Shielding cover	Phosphor bronze
Shielding cover finish	Gold plating on mating, tin on others, all over nickel underplated
Mechanical durability	250 mating/unmating cycles minimum
Insertion force	0.75N maximum per signal contact pair
	1.0N maximum per shield contact pair
Withdrawal force	0.15N minimum per signal/shield contact pair
Contact resistance	20mΩ maximum
Insulation resistance	10 ⁴ MΩ minimum
Test voltage	750V/RMS
Current rating	1.5A at 20°C, 1.0A at 70°C
Air and creepage dist.	Male connector: 0.8mm
	Female connector: 0.6mm
Temperature range	-55°C to +125°C

Connector according to IEC 61076-4-101

The P2HM series hardmetric connector system was developed according to the international standard IEC 61076-4-101. As a result, a worldwide standard for the combination of PCBs is safeguarded by multi-contact plug-and-socket connectors for customers.

PCBs can be exchanged without problems from system to system. Important parameters like fixing, shielding and coding remain compatible to all applications.

The spacing

The P2HM series connectors have been developed with a spacing of 2.0mm between contacts. These connectors are modular and therefore can be stacked together without interrupting the continuity of the 2.0mm design. No space is wasted within a row of connectors.

Module stacking

To improve stacking and to avoid accidental reversal of connectors the end of the housings engage the adjacent connector to insure exact positioning onto the PCB board and give the modules the necessary support.

Coding

In order to avoid accidental plug-in among PC boards the IEC 61076-4-101 standard provides protection through coding. Coding keys are easily hand inserted into the multifunction block of the connector module A, L and M. The pins are colour coded for fast visual recognition.

Multifunction block

The modules A, L, M and compact PCI are equipped with a multifunction block. The coding devices, according to the IEC standard, can be added to the multifunction block. The

guides guaranty the correct mating and prohibit accidental reversal of the male and female connectors.

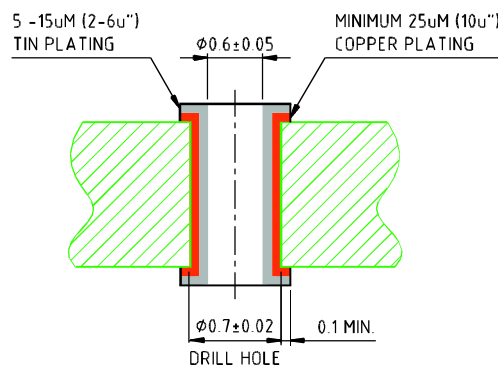
The coding devices may be assembled by a single plug and pulling tool and/or again removed.

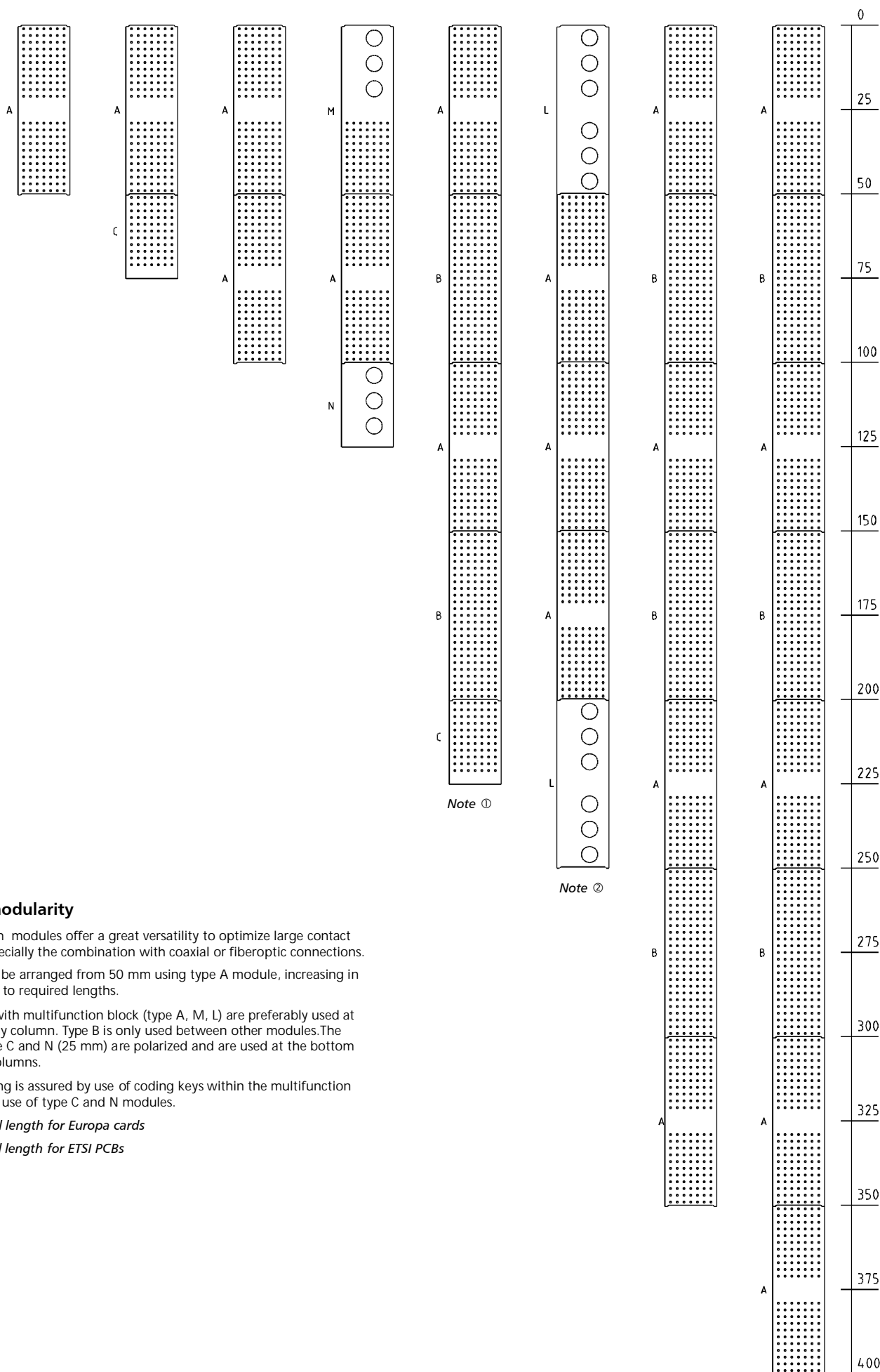
Contact length of the rear and front mating area

ITT Industries Cannon offers 3 different lengths for the front mating area and 4 lengths for the rear mating area for the P2HM Series male connectors. A tin-plated Wire Wrap type is equally available. Different contact lengths are required for signal and ground contacts to establish first mate and last break features. The long contacts with 11.25mm are predominantly used for the shielding rows "Z" and "F".

Through-hole specification of the PCB

Shows recommended through-plated holes for signal contacts and shieldings in press-fit techniques as following..





System modularity

P2HM 2.0mm modules offer a great versatility to optimize large contact densities. Especially the combination with coaxial or fiberoptic connections.

Stacking can be arranged from 50 mm using type A module, increasing in 25 mm steps to required lengths.

Connectors with multifunction block (type A, M, L) are preferably used at the top of any column. Type B is only used between other modules. The modules type C and N (25 mm) are polarized and are used at the bottom end of the columns.

Correct mating is assured by use of coding keys within the multifunction block and by use of type C and N modules.

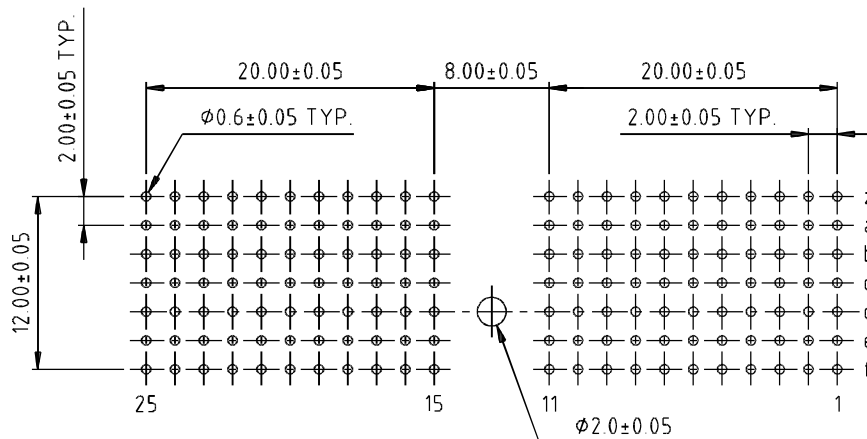
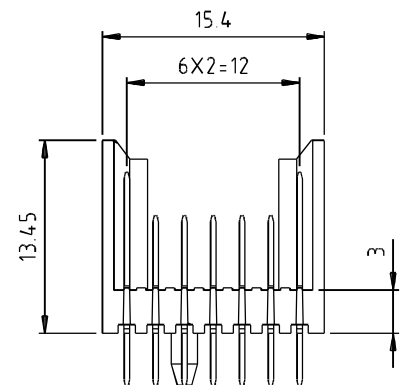
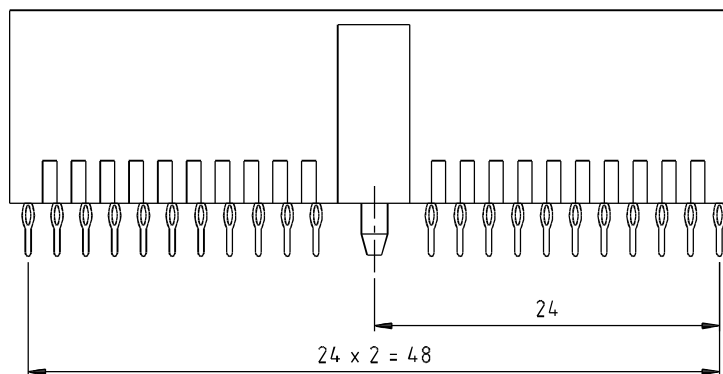
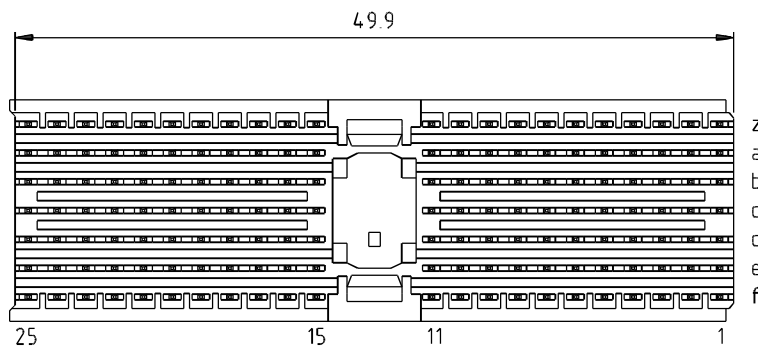
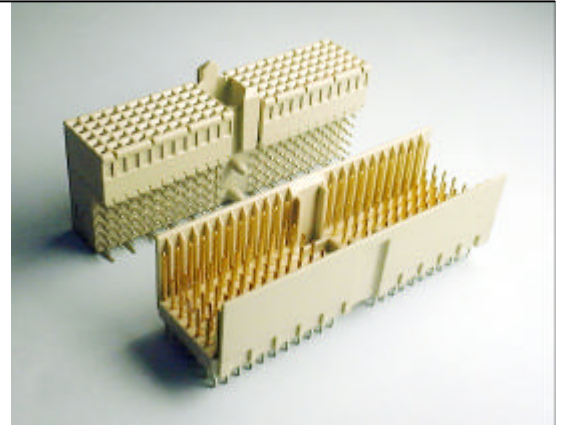
Note ①: total length for Europa cards

Note ②: total length for ETSI PCBs

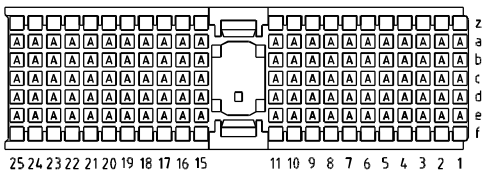
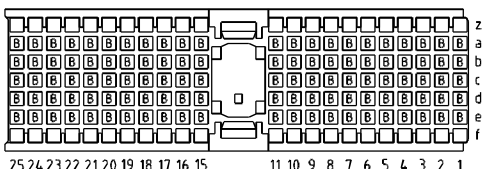
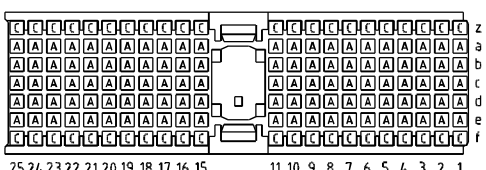
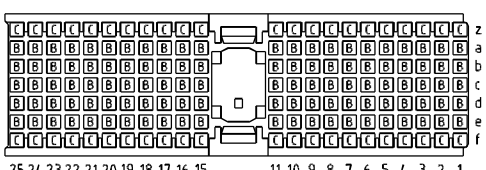
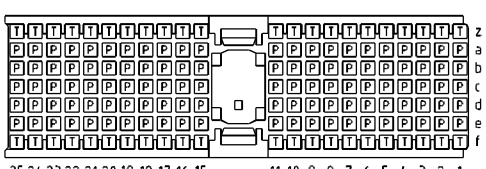
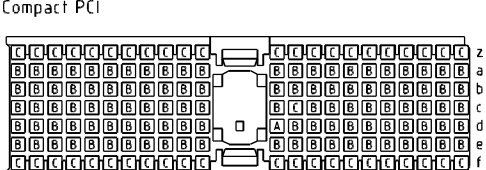
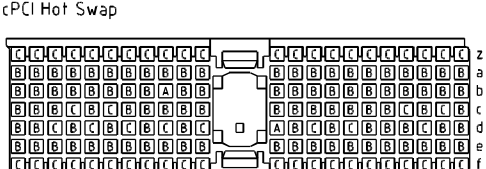
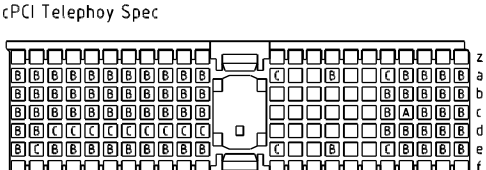
Contact Dimension

contact dimensions	contact	Rear mating option	front mating length	used for
	A	without rear mating area	8.2±0.1	signal contact
	B		9.7±0.1	signal contact
	C		11.2±0.1	shielding
	G	13.0mm for wire wrap	8.2±0.1	signal contact
	H		9.7±0.1	signal contact
	J		11.2±0.1	shielding
	K	13.0mm for rear mating	8.2±0.1	signal contact
	L		9.7±0.1	signal contact
	M		11.2±0.1	shielding
	N	14.5mm for rear mating	8.2±0.1	signal contact
	P		9.7±0.1	signal contact
	O		11.2±0.1	shielding
	R	16.0mm for rear mating	8.2±0.1	signal contact
	S		9.7±0.1	signal contact
	T		11.2±0.1	shielding

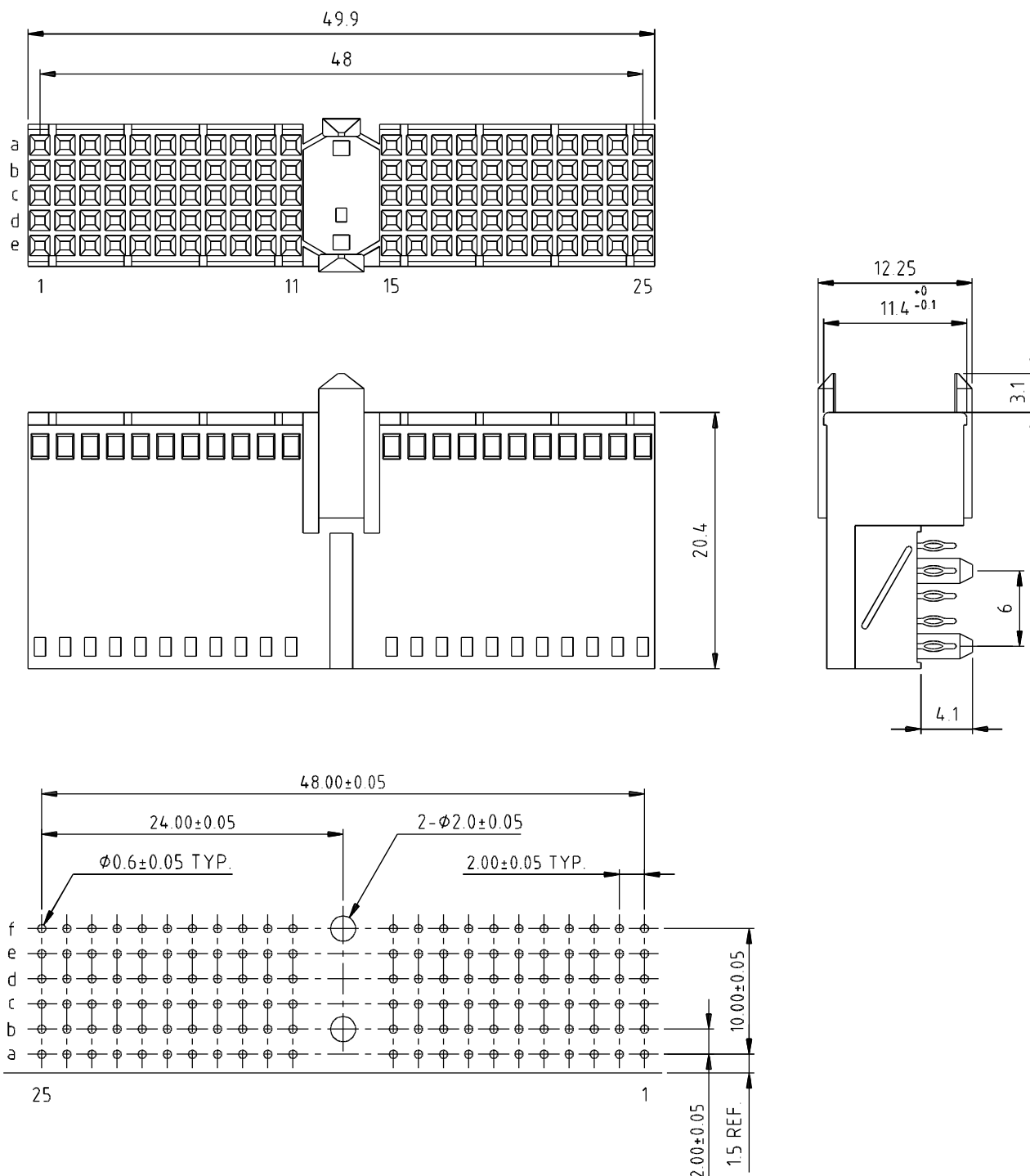
Male Connectors Type A



Ordering Information

Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
 <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	110	z a b c d e f	- A A A A A -	167000-1001
 <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	110	z a b c d e f	- B B B B B -	167000-1002
 <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C A A A A A C	167000-1003
 <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C B B B B B C	167000-1004
 <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	T P P P P P T	167000-1005
Compact PCI  <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C B B B/C A/B B C	167000-1006
cPCI Hot Swap  <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C B A/B B/C A/B/C B C	167000-1007
cPCI Telephony Spec  <p>25 24 23 22 21 20 19 18 17 16 15 11 10 9 8 7 6 5 4 3 2 1</p>	100	z a b c d e f	- B/C B A/B B/C B/C -	167000-1008

Female Connectors Type A

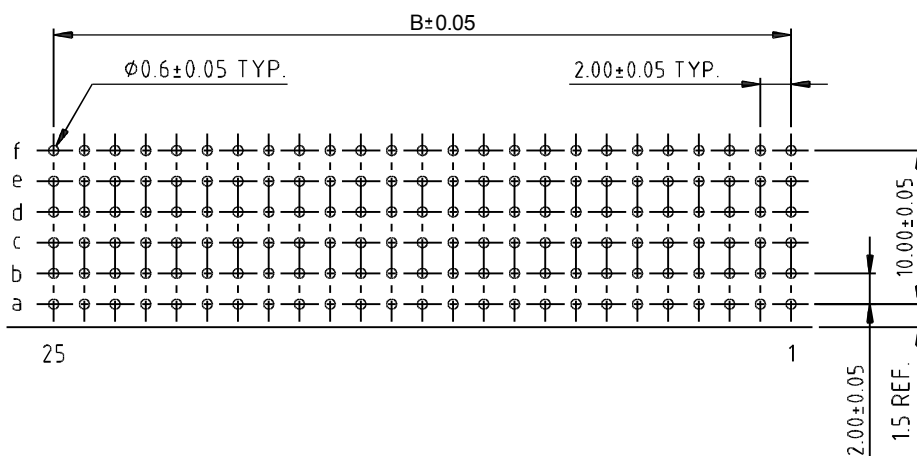
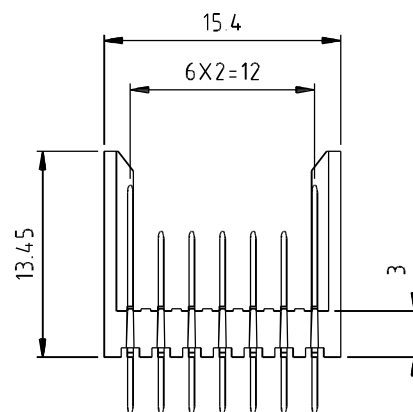
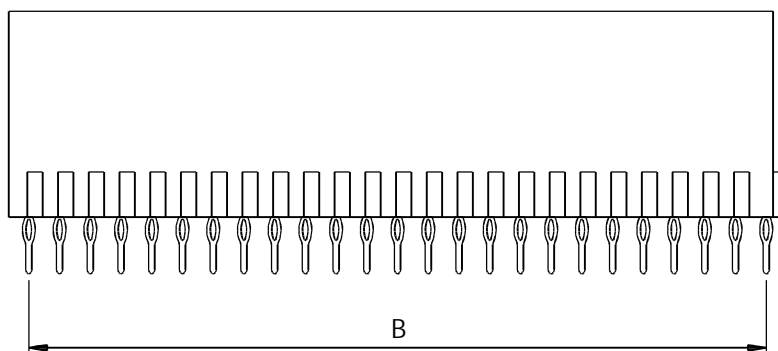
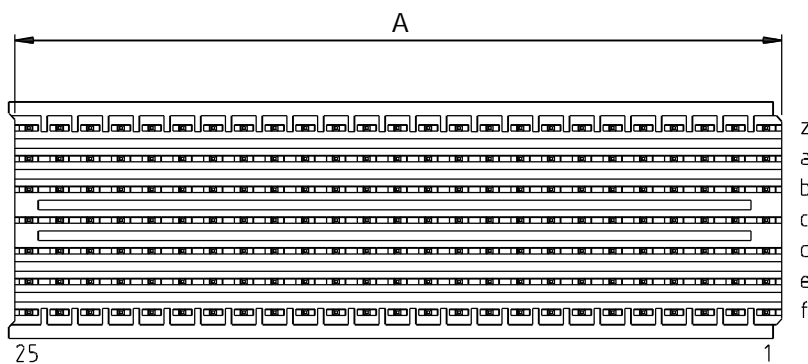
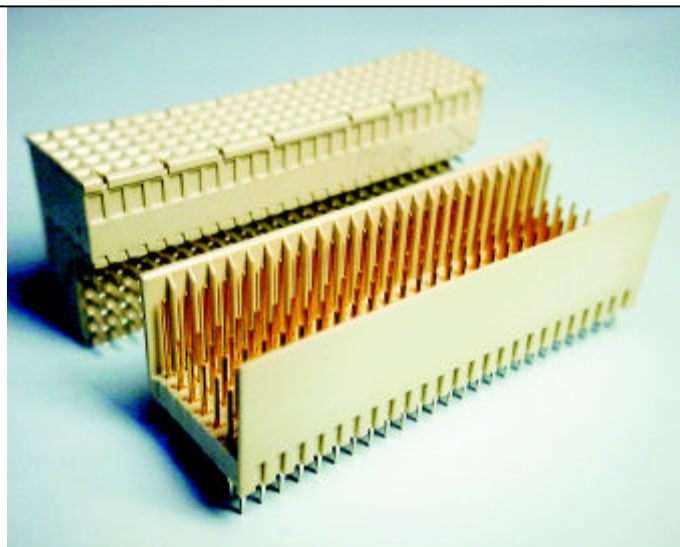


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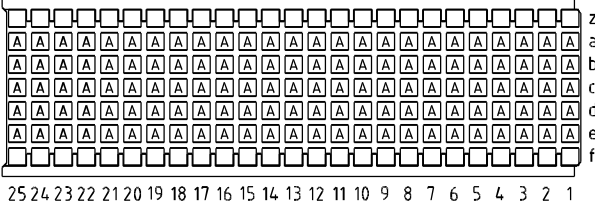
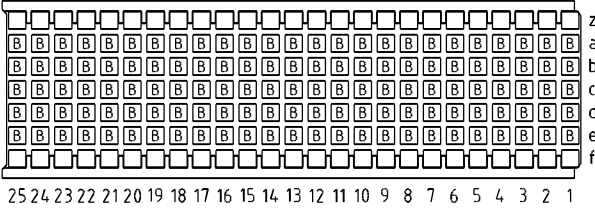
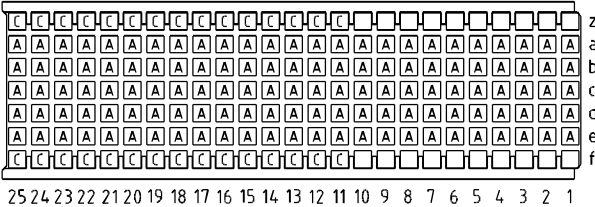
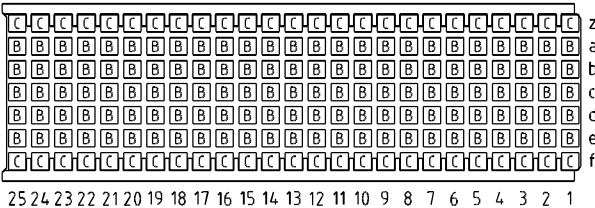
Part Number	Mating Area Finish	Description
167000-1009	30μ" gold (standard)	110-pos, w/o upper shielding pre-installed
167000-1010	30μ" gold (standard)	110-pos, w/upper shielding pre-installed
167000-1011	30μ" gold (standard)	90-pos, w/upper shielding pre-installed
167000-1012	30μ" gold (standard)	90-pos, cPCI Telephony Spec.
167000-1013	30μ" gold (standard)	Optional upper Shielding
167000-1014	30μ" gold (standard)	Optional bottom Shielding

Male Connectors Type B25/B22/B19

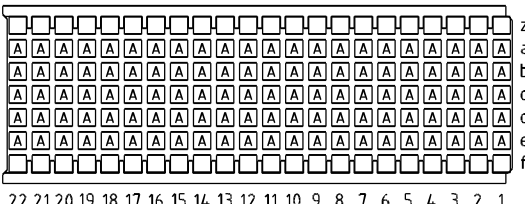
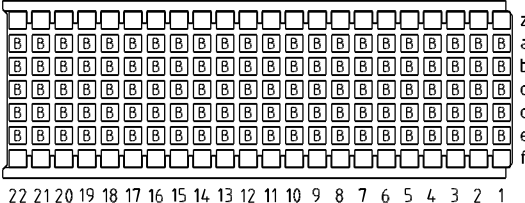
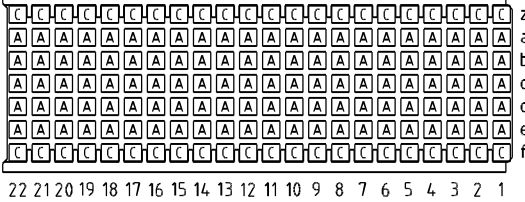
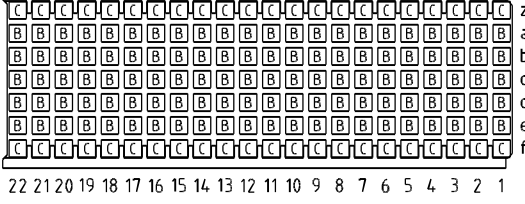
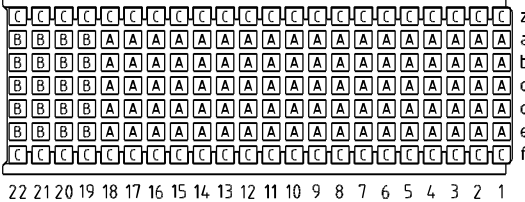
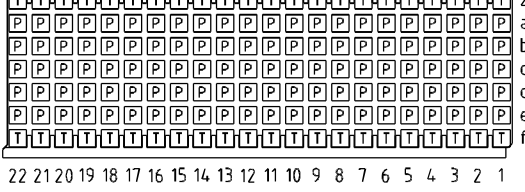
Dimension Table		
Type	DIM A	DIM B
B-25	49.9	48.0
B-22	43.9	42.0
B-19	37.9	36.0



Ordering Information- B25

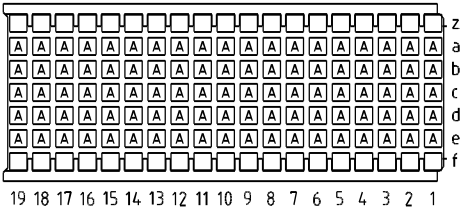
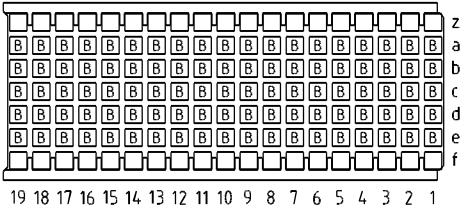
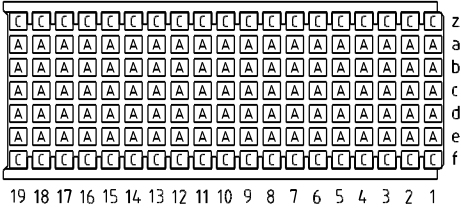
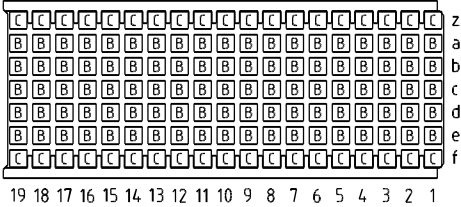
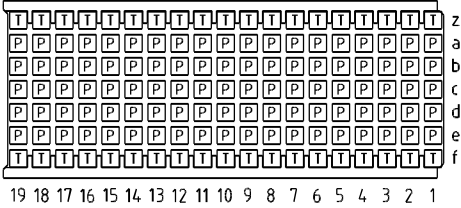
Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
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	125	z a b c d e f	- B B B B B -	167000-1016
	175	z a b c d e f	C A A A A A C	167000-1017
	175	z a b c d e f	C B B B B B C	167000-1018

Ordering Information- B22

Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
 <p>22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	110	z a b c d e f	- A A A A A -	167000-1023
 <p>22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	110	z a b c d e f	- B B B B B -	167000-1024
 <p>22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C A A A A A C	167000-1025
 <p>22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C B B B B B C	167000-1026
<p>cPCI Telephony Spec</p>  <p>22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	154	z a b c d e f	C A/B A/B A/B A/B A/B C	167000-1027
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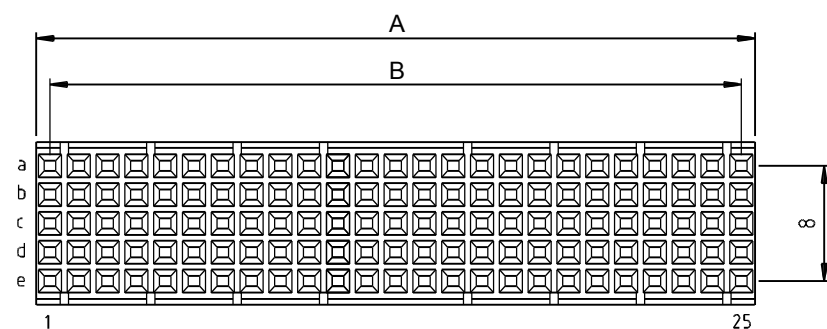


Ordering Information- B19

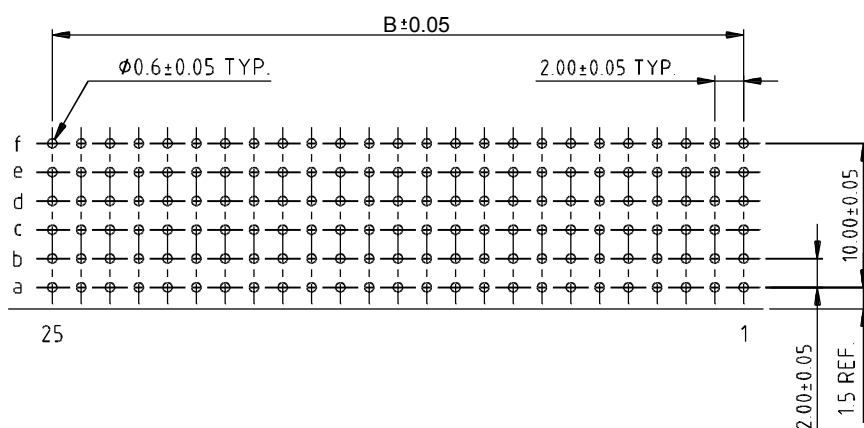
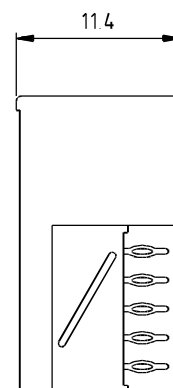
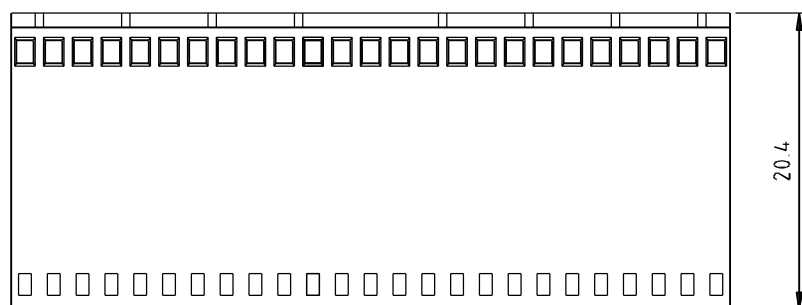
Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	95	z a b c d e f	- A A A A A -	167000-1033
 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	95	z a b c d e f	- B B B B B -	167000-1034
 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	133	z a b c d e f	C A A A A A C	167000-1035
 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	133	z a b c d e f	C B B B B B C	167000-1036
 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	133	z a b c d e f	T P P P P P T	167000-1037



Female Connectors Type B25/B22/B19



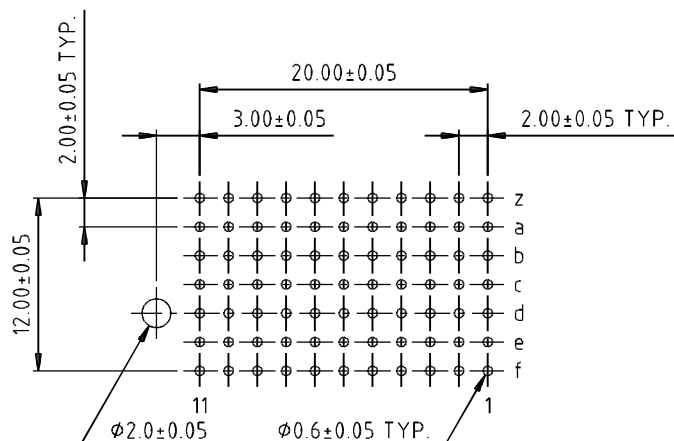
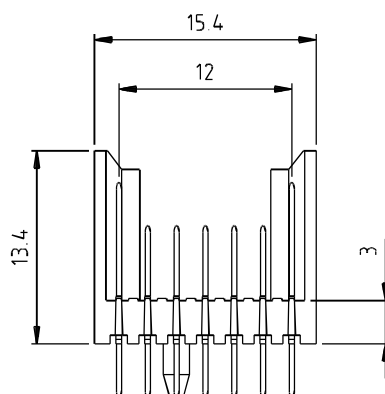
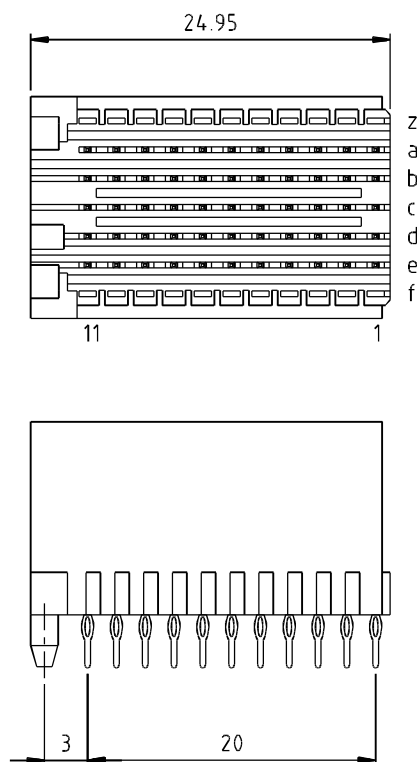
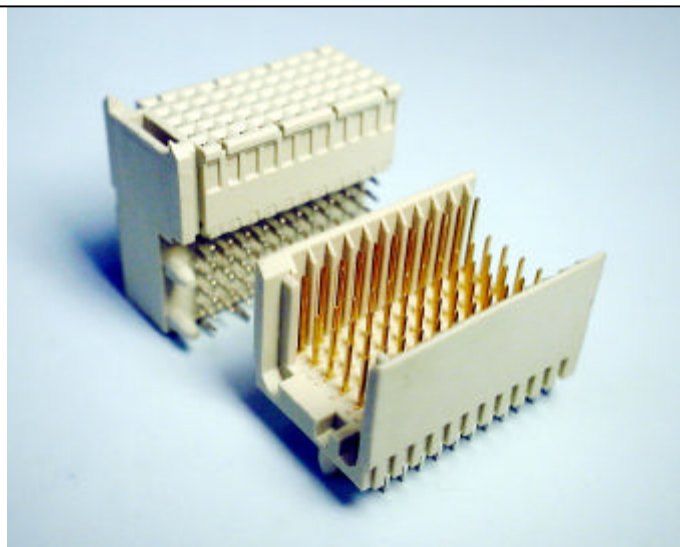
Dimension Table		
Type	DIM A	DIM B
B-25	49.9	48.0
B-22	43.95	42.0
B-19	37.95	36.0



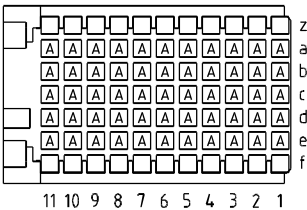
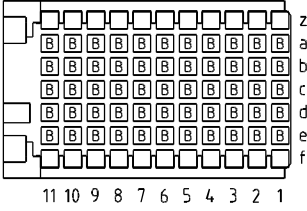
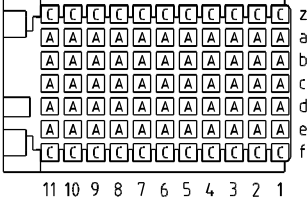
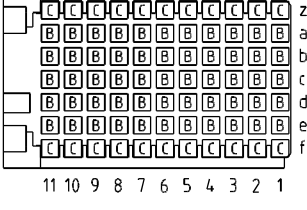
Ordering Information

Part Number	Type	Mating Area Finish	Description
167000-1019	B25	30μ" gold (standard)	125-pos, w/o upper shielding pre-installed
167000-1020	B25	30μ" gold (standard)	125-pos, w/upper shielding pre-installed
167000-1021	B25	30μ" gold (standard)	Optional upper shielding
167000-1022	B25	30μ" gold (standard)	Optional bottom shielding
167000-1029	B22	30μ" gold (standard)	110-pos, w/o upper shielding pre-installed
167000-1030	B22	30μ" gold (standard)	110-pos, w/upper shielding pre-installed
167000-1031	B22	30μ" gold (standard)	Optional upper shielding
167000-1032	B22	30μ" gold (standard)	Optional bottom shielding
167000-1038	B19	30μ" gold (standard)	95-pos, w/o upper shielding pre-installed
167000-1039	B19	30μ" gold (standard)	95-pos, w/upper shielding pre-installed
167000-1040	B19	30μ" gold (standard)	Optional upper shielding
167000-1041	B19	30μ" gold (standard)	Optional bottom shielding

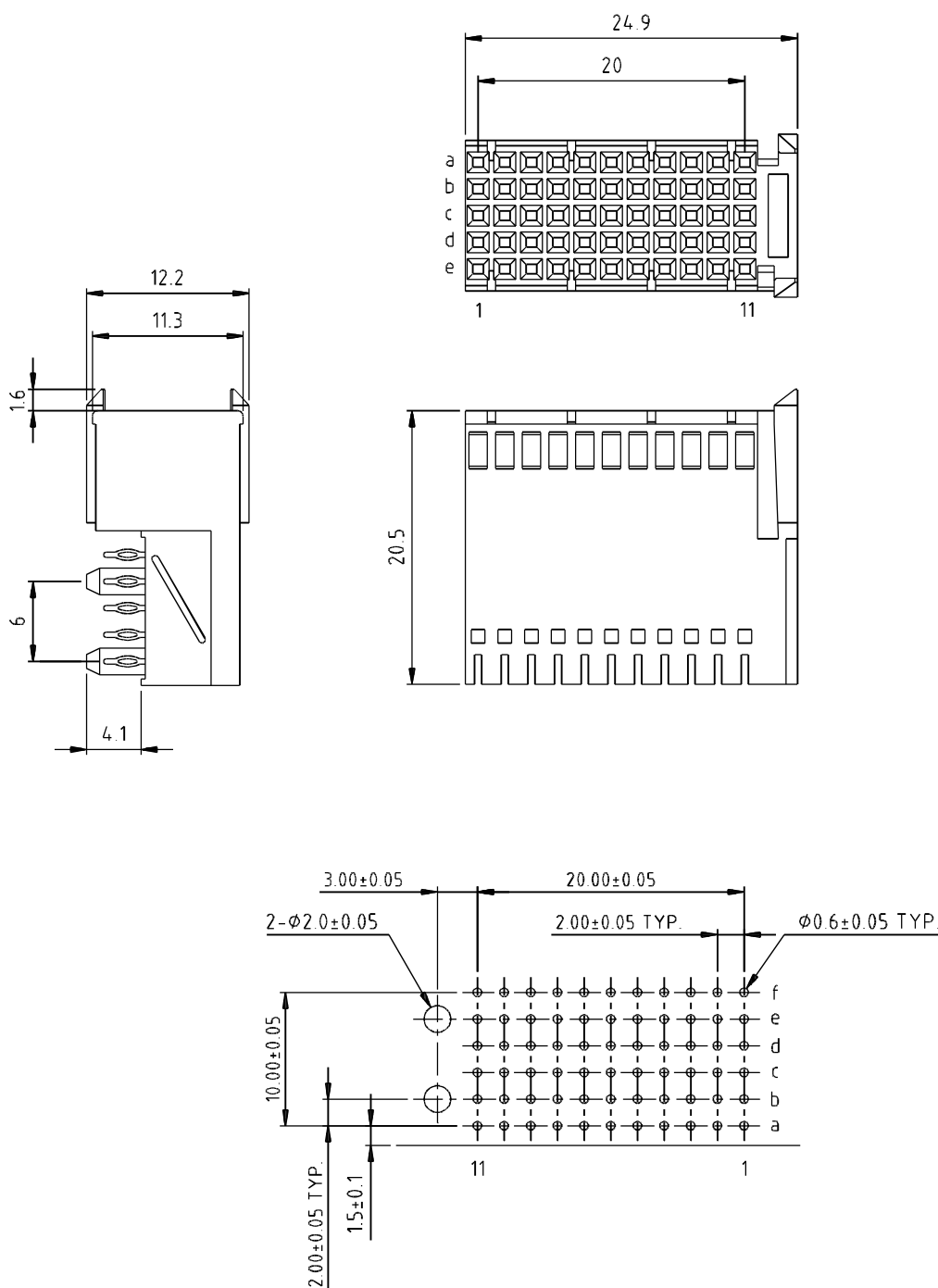
Male Connectors Type C



Ordering Information

Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
	55	z a b c d e f	- A A A A A -	167000-1042
	55	z a b c d e f	- B B B B B -	167000-1043
	77	z a b c d e f	C A A A A A C	167000-1044
	77	z a b c d e f	C B B B B B C	167000-1045

Female Connectors Type C

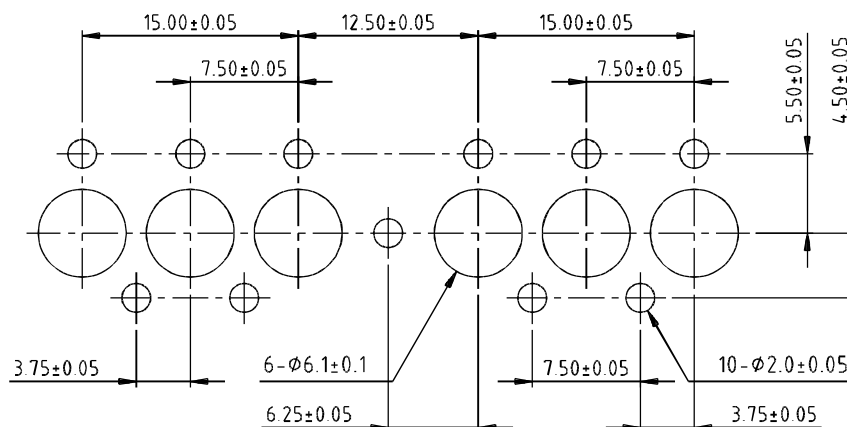
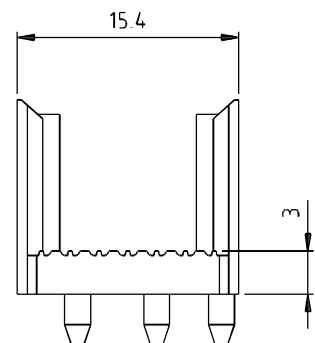
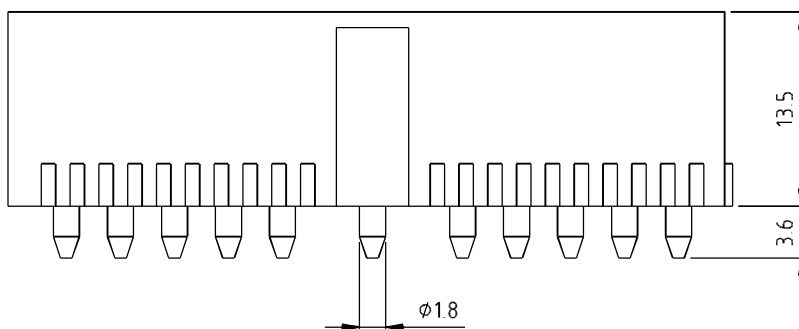
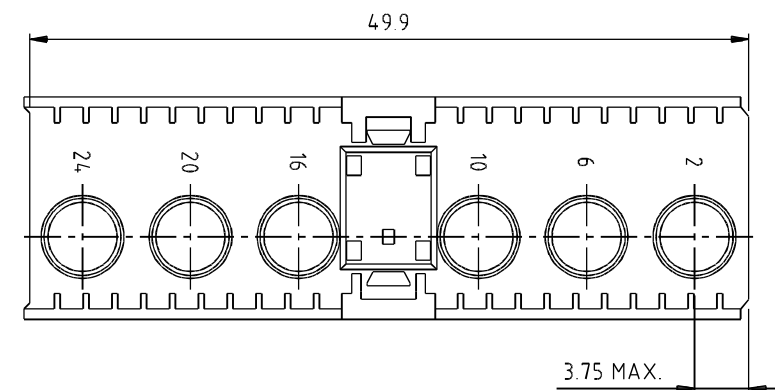
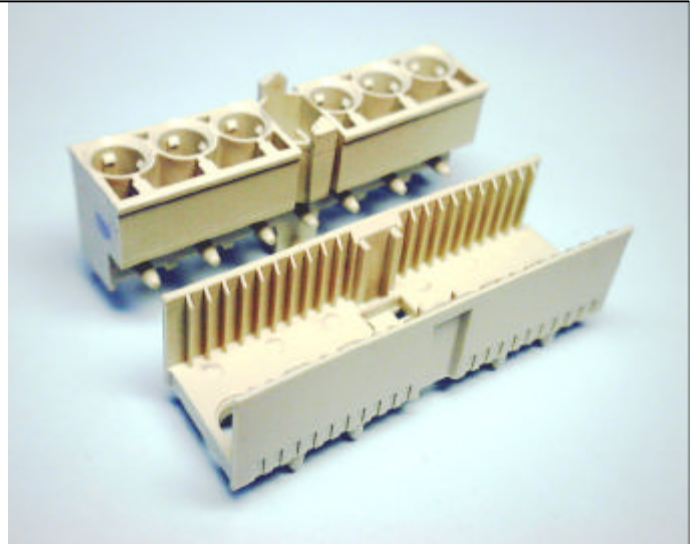


Ordering Information

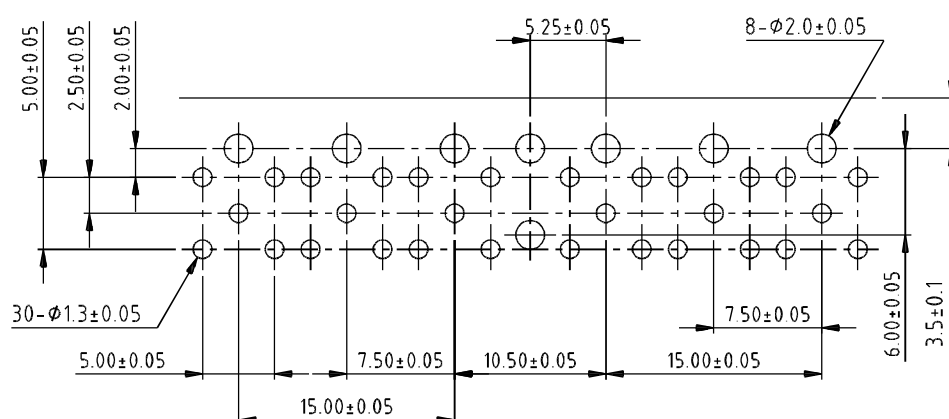
Part Number	Mating Area Finish	Description
167000-1046	30μ" gold (standard)	55-pos, w/o upper shielding pre-installed
167000-1047	30μ" gold (standard)	55-pos, w/upper shielding pre-installed
167000-1048	30μ" gold (standard)	Optional upper Shielding
167000-1049	30μ" gold (standard)	Optional bottom Shielding

Male Connectors Type L

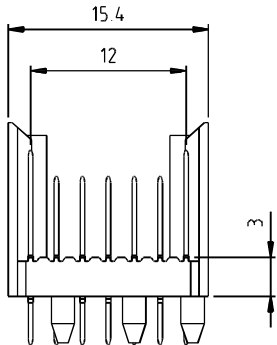
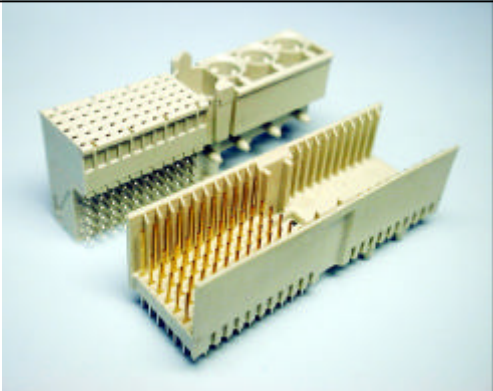
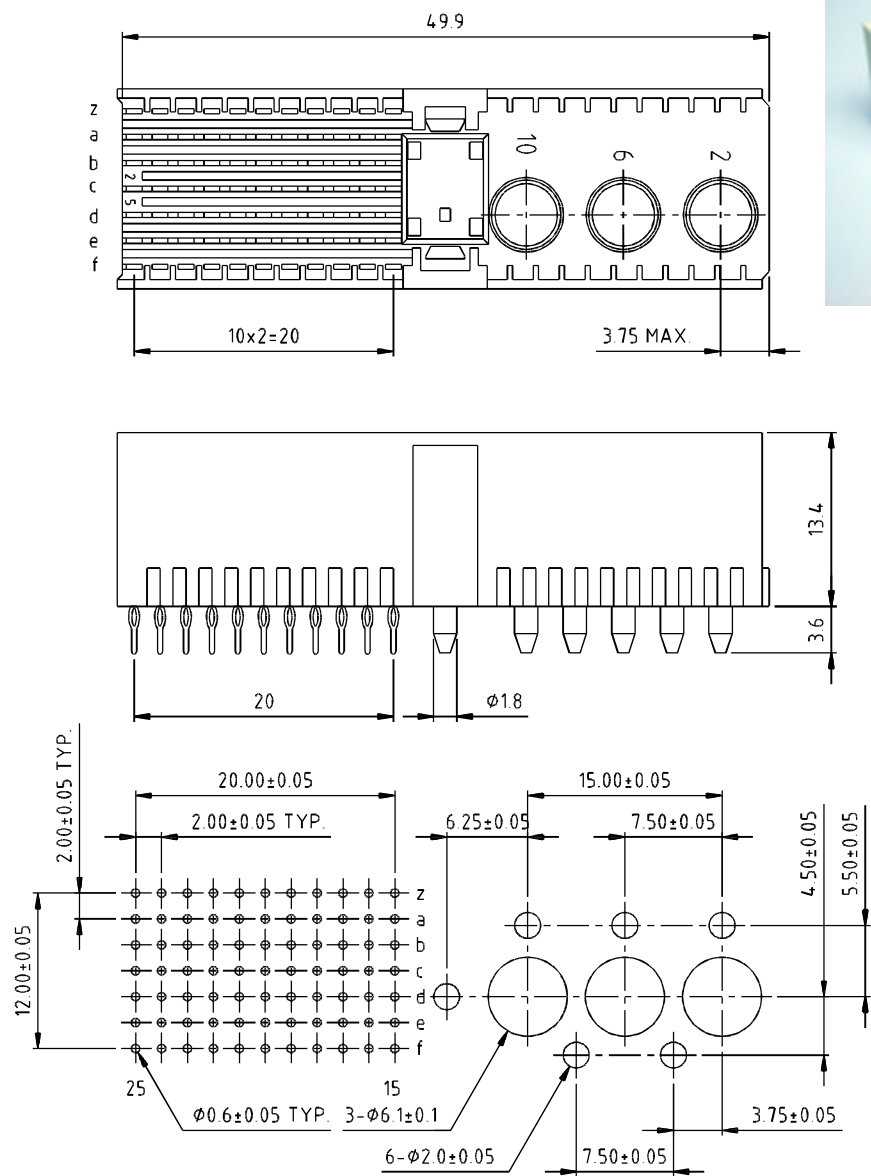
P/N: 167000-1050



P/N: 167000-1051



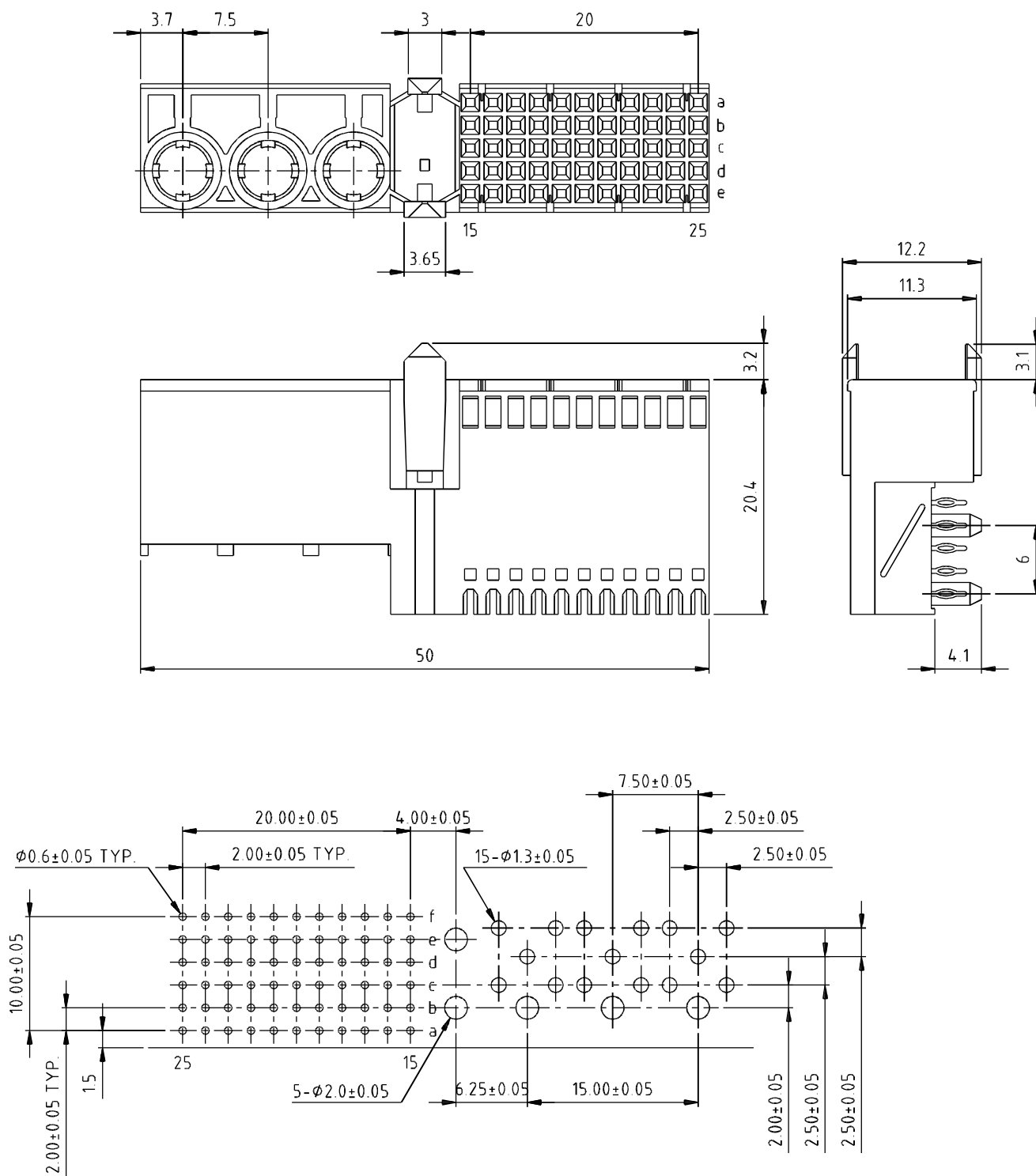
Male Connectors Type M



Ordering Information

Contact Arrangement	No. of Pos.	Contact Type		Part number @30μ" gold
		ROW	TYPE	
	55+3	z a b c d e f	- A A A A A -	167000-1052
	77+3	z a b c d e f	C A A A A A C	167000-1053

Female Connectors Type M

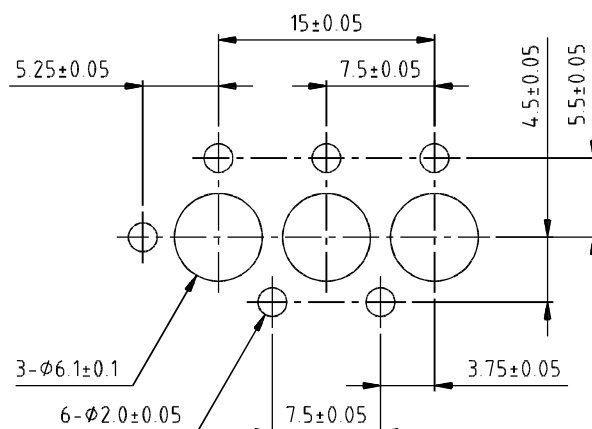
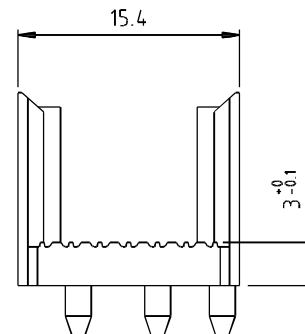
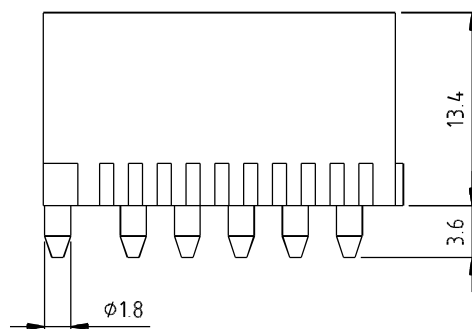
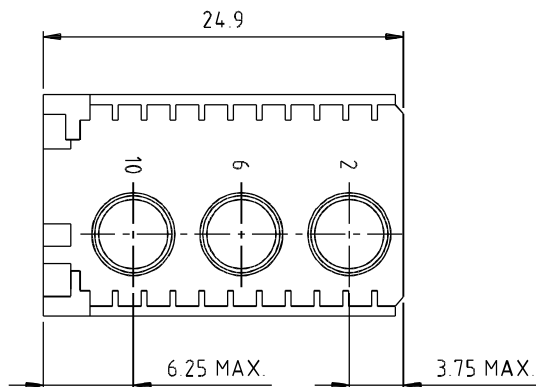
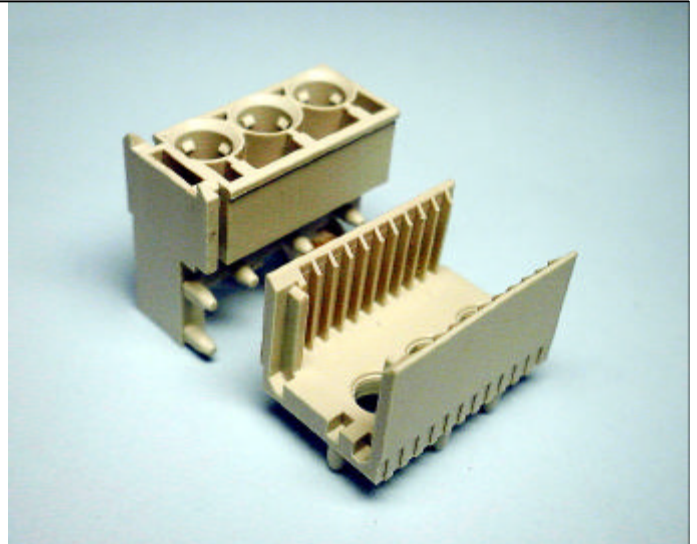


Ordering Information

Part Number	Mating Area Finish	Description
167000-1054	30μ" gold (standard)	55+3 pos., w/o upper shielding pre-installed
167000-1055	30μ" gold (standard)	55+3 pos., w/upper shielding pre-installed
167000-1056	30μ" gold (standard)	Optional upper Shielding
167000-1057	30μ" gold (standard)	Optional bottom Shielding

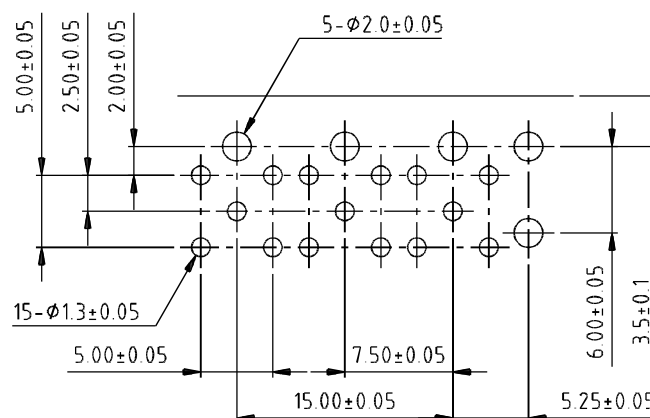
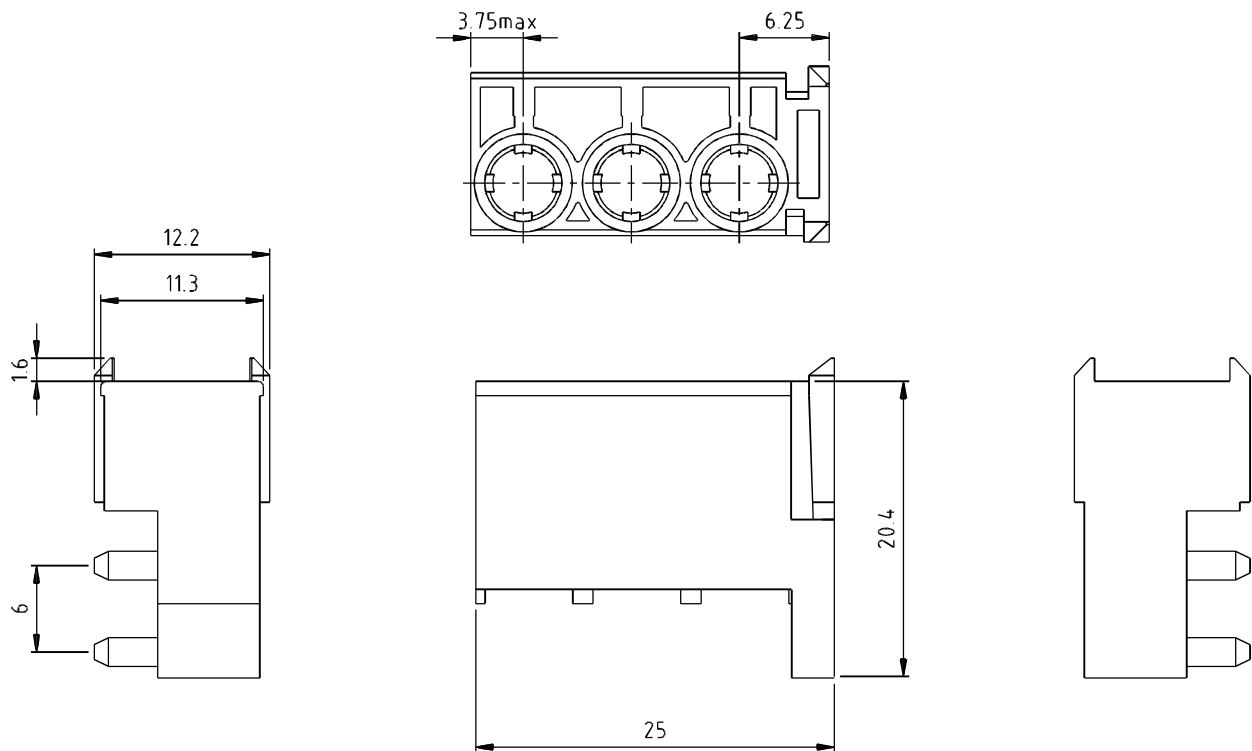
Male Connectors Type N

P/N: 167000-1058



Female Connectors Type N

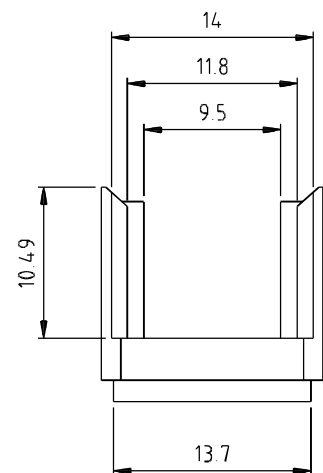
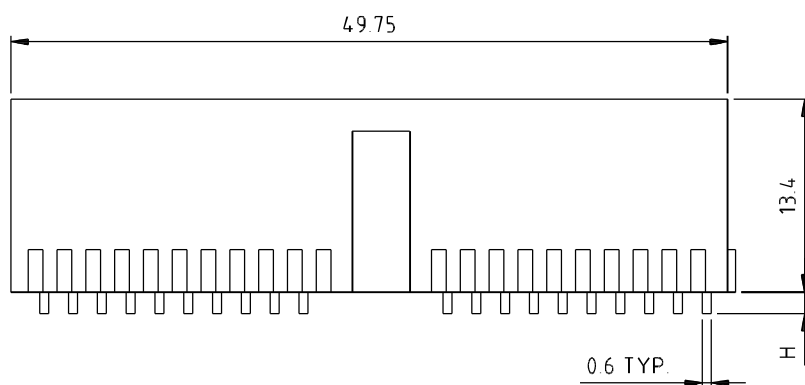
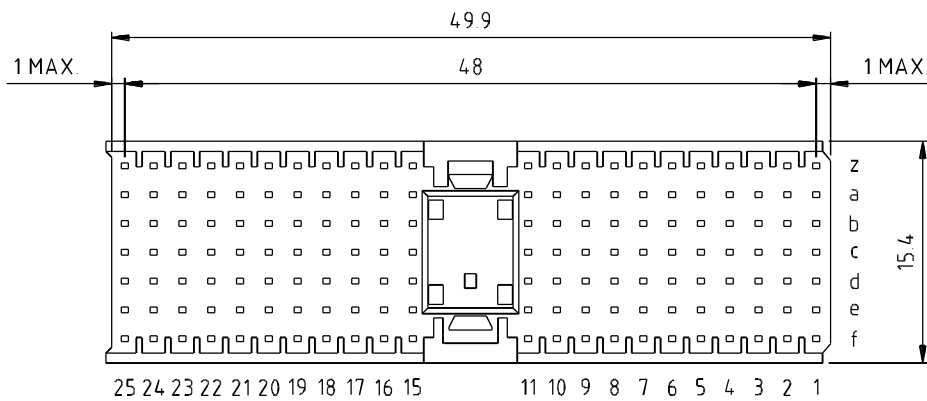
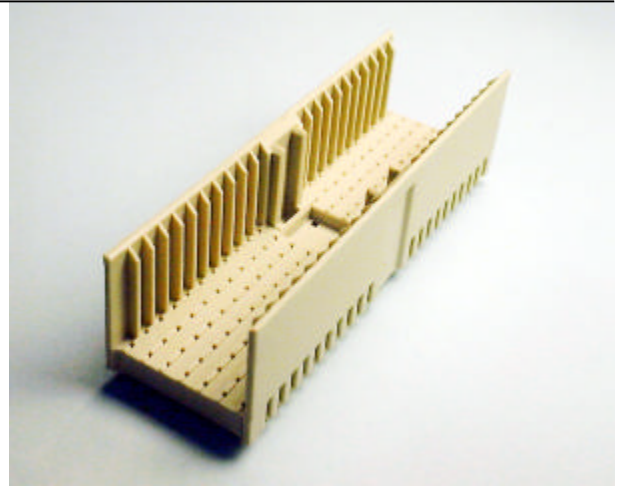
P/N: 167000-1059



Shroud for Male Connectors Type A

Ordering Information

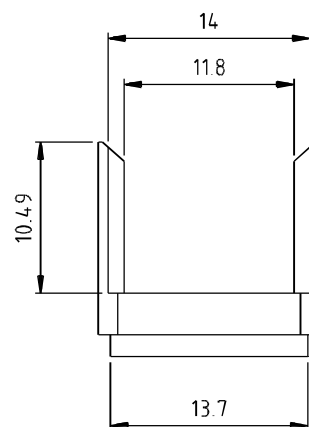
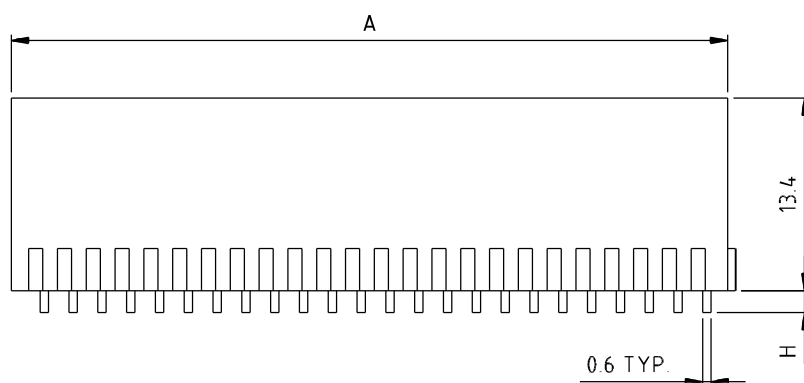
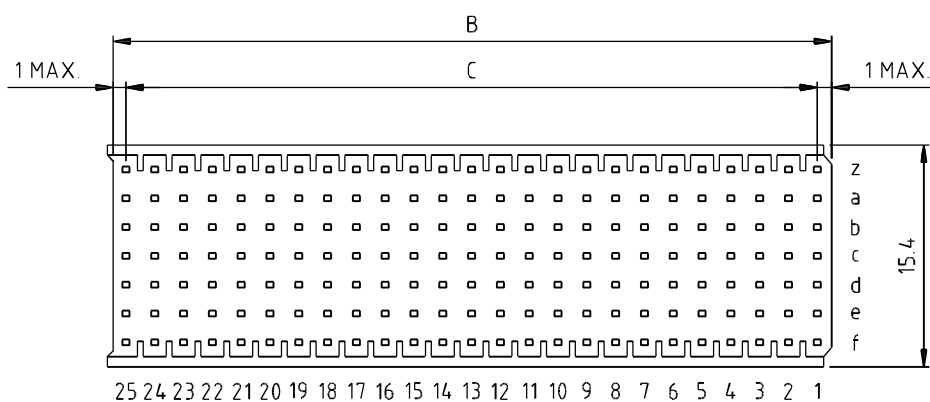
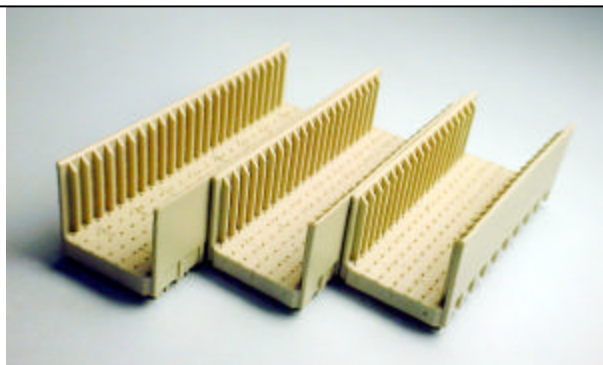
Part Number	DIM "H"
167000-1060	0.9
167000-1061	1.1
167000-1062	1.3
167000-1063	1.5
167000-1064	1.7
167000-1065	1.9



Shroud for Male Connectors Type B25/B22/B19

Ordering Information

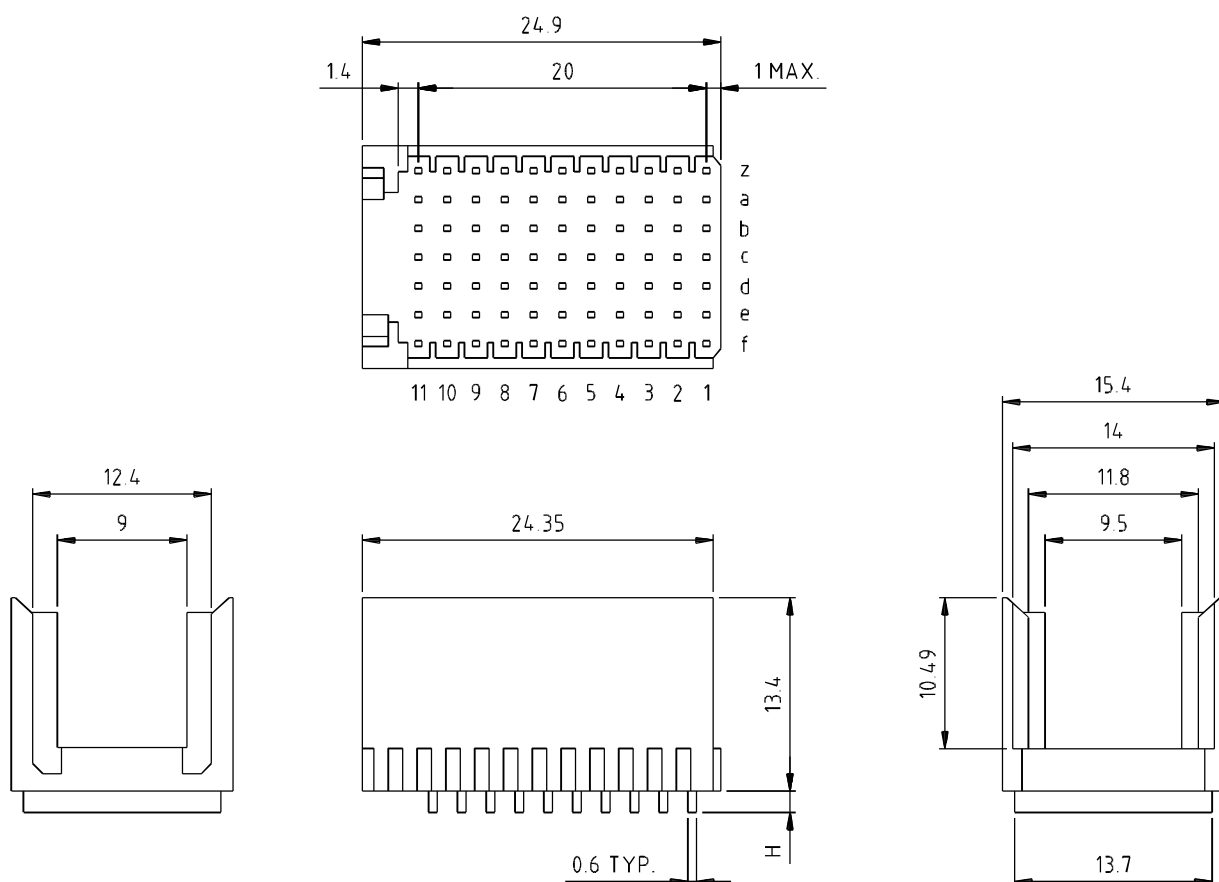
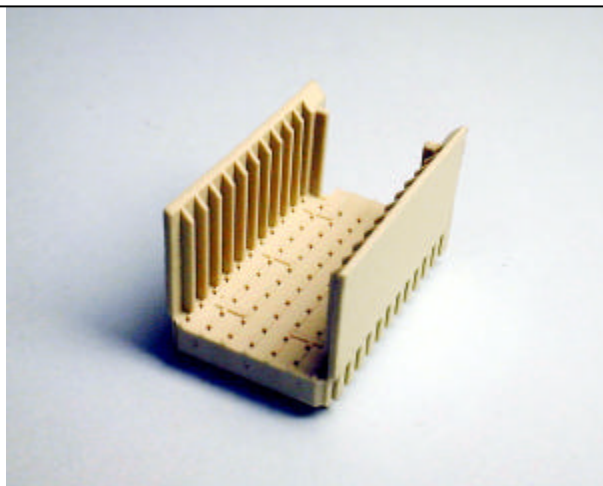
Part Number	Type	DIM "H"
167000-1066	B25	0.9
167000-1067	B25	1.1
167000-1068	B25	1.3
167000-1069	B25	1.5
167000-1070	B25	1.7
167000-1071	B25	1.9
167000-1072	B22	0.9
167000-1073	B22	1.1
167000-1074	B22	1.3
167000-1075	B22	1.5
167000-1076	B22	1.7
167000-1077	B22	1.9
167000-1078	B19	0.9
167000-1079	B19	1.1
167000-1080	B19	1.3
167000-1081	B19	1.5
167000-1082	B19	1.7
167000-1083	B19	1.9



Shroud for Male Connectors Type C

Ordering Information

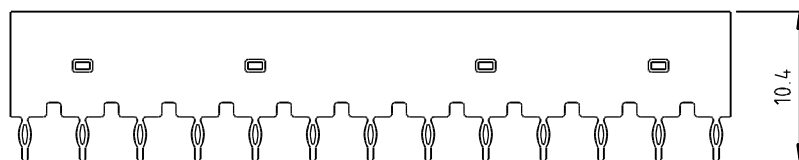
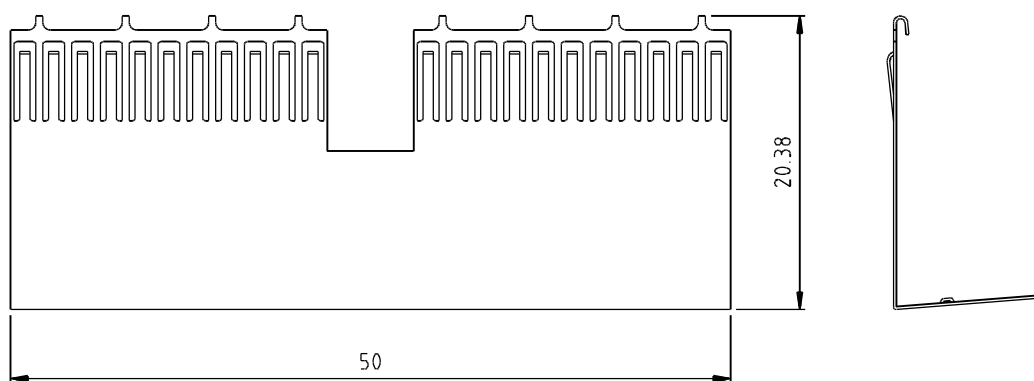
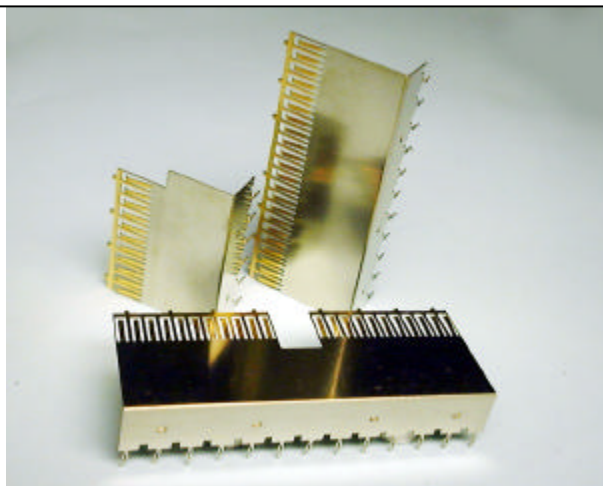
Part Number	DIM "H"
167000-1084	0.9
167000-1085	1.1
167000-1086	1.3
167000-1087	1.5
167000-1088	1.7
167000-1089	1.9



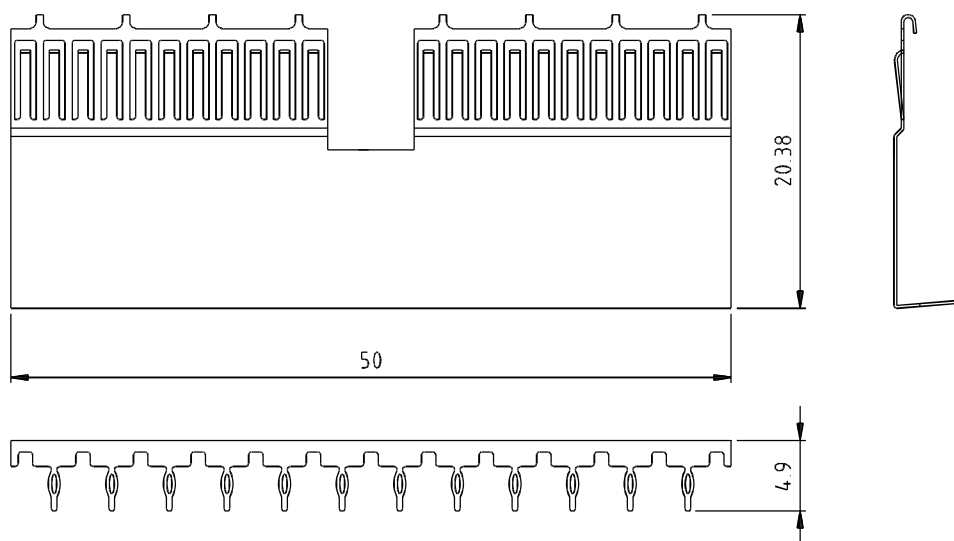
Shielding for Female Connectors Type A

Ordering Information

Part Number	Description
167000-1013	upper shielding cover
167000-1014	Bottom shielding cover



Upper Shielding Cover

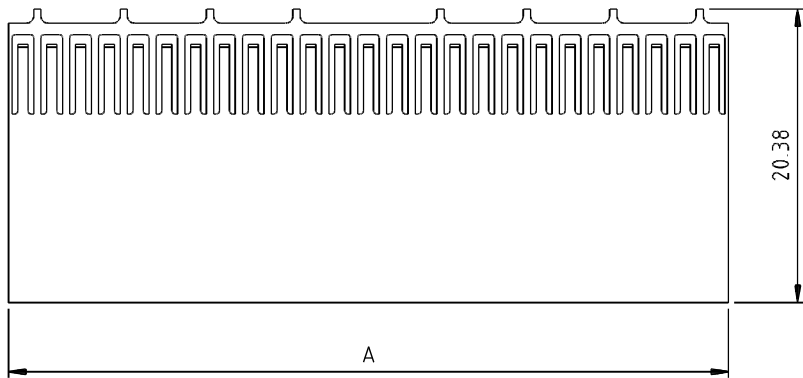


Bottom Shielding Cover

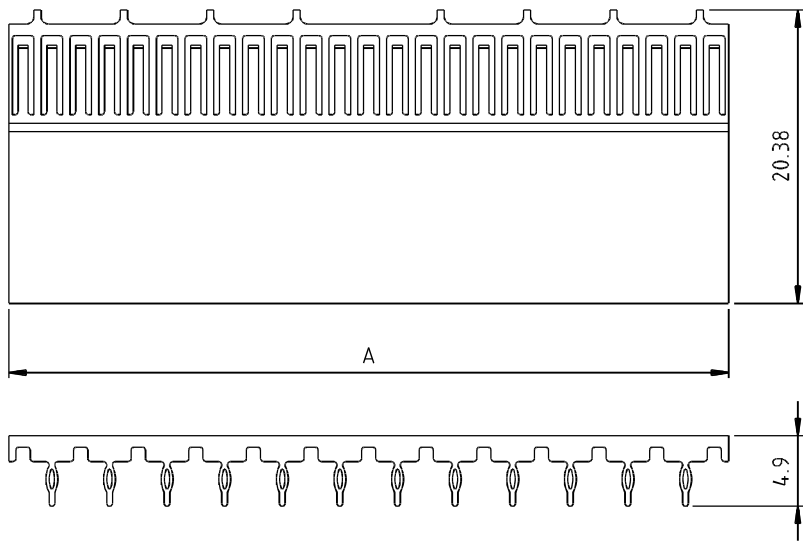
Shielding Cover for Female Connectors Type B25/B22/B19

Ordering Information

Part Number	Type	DIM A	Description
167000-1021	B25	50	Upper shielding cover
167000-1022	B25	50	Bottom shielding cover
167000-1031	B22	44	Upper shielding cover
167000-1032	B22	44	Bottom shielding cover
167000-1040	B19	38	Upper shielding cover
167000-1041	B19	38	Bottom shielding cover



Upper Shielding Cover

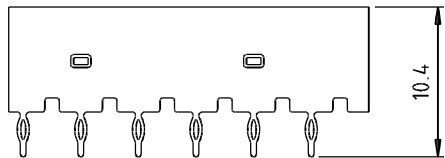
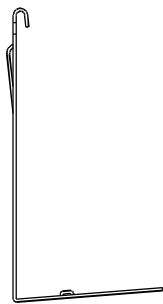
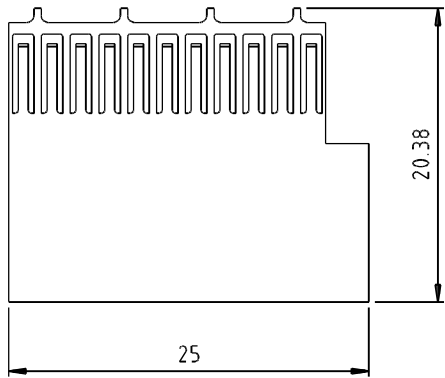


Bottom Shielding Cover

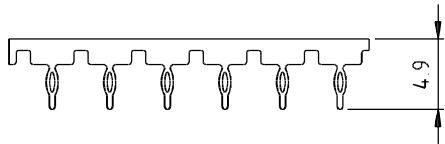
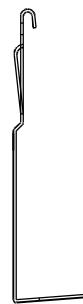
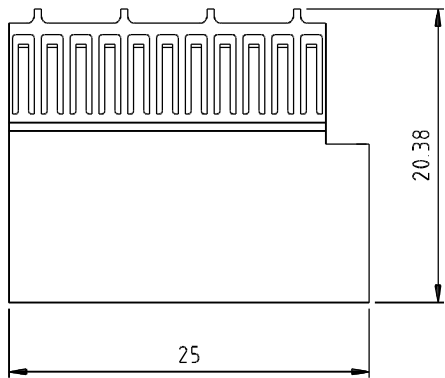
Shielding Cover for Female Connectors Type C

Ordering Information

Part Number	Description
167000-1048	upper shielding cover
167000-1049	Bottom shielding cover

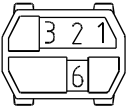
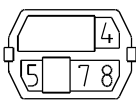
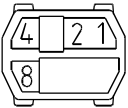
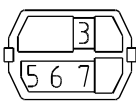
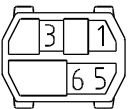
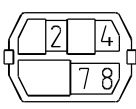

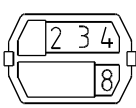
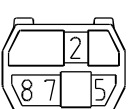
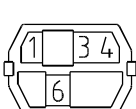
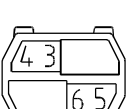
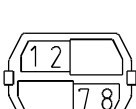
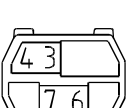
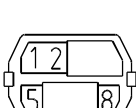
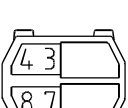
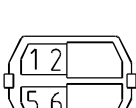
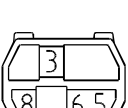
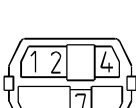
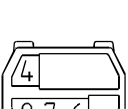
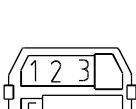


Upper Shielding Cover



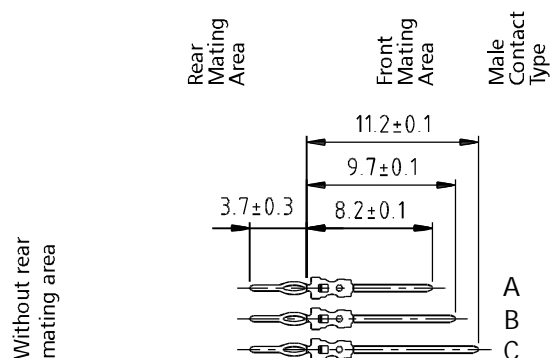
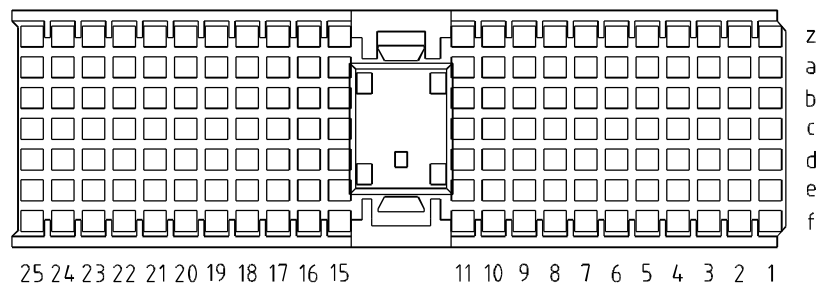
Bottom Shielding Cover

Coding for male & female connectors

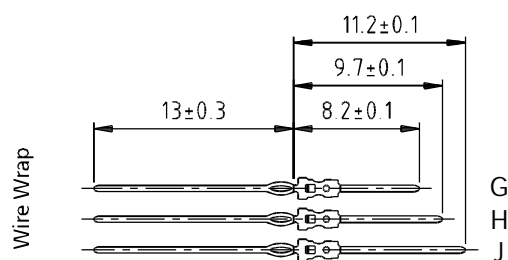
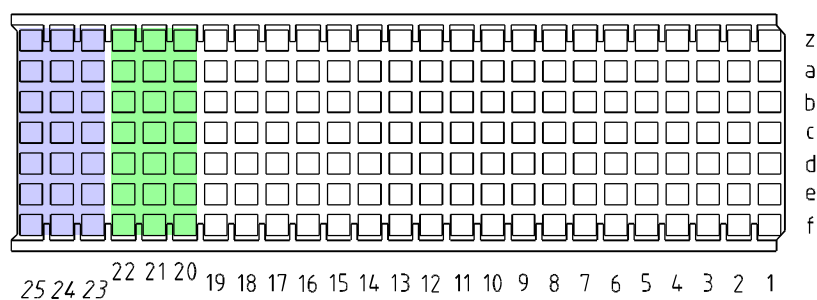
Male Connector				Female Connector			
Coding Key	Code No.	Color	Part Number	Coding Key	Code No.	Color	Part Number
	1236	Nut brown	167000-1090		4578	Nut brown	167000-1190
	1248	Strawberry red	167000-1091		3567	Strawberry red	167000-1191
	1356	Blue lilac	167000-1092		2478	Blue lilac	167000-1192
	1567	Brilliant blue	167000-1093		2348	Brilliant blue	167000-1193
	2578	Reseda green	167000-1094		1346	Reseda green	167000-1194
	3456	Cadmium yellow	167000-1095		1278	Cadmium yellow	167000-1195
	3467	Slate grey	167000-1096		1258	Slate grey	167000-1196
	3478	Steel blue	167000-1097		1256	Steel blue	167000-1197
	3568	Pastel orange	167000-1098		1247	Pastel orange	167000-1198
	4678	Ochre yellow	167000-1099		1235	Ochre yellow	167000-1199

Company name:																																
Contact name:																																
E-mail address:																																
Phone Number:											EXT#											FAX Number:										

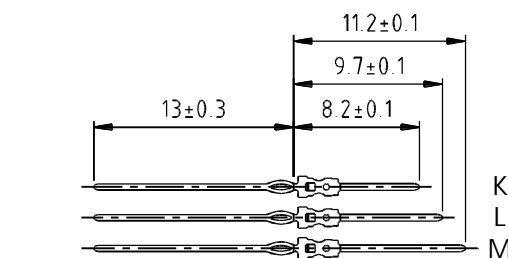
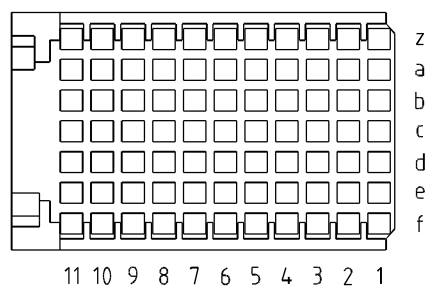
☐ Type A



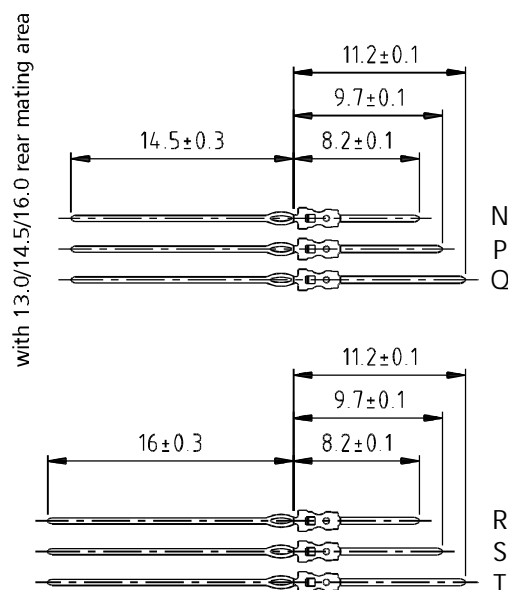
☐ Type B25, ☐ Type B22, ☐ Type B19



☐ Type C



Comments:



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167000-1004	154-pos, Male A connector	8	167000-1054	55+3 pos, female M w/shielding	21
167000-1005	154-pos, Male A connector	8	167000-1055	55+3 pos, female M w/o shielding	21
167000-1006	154-pos, Male A connector	8	167000-1056	Female M top shielding	21
167000-1007	154-pos, Male A connector	8	167000-1057	Female M bottom shielding	21
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