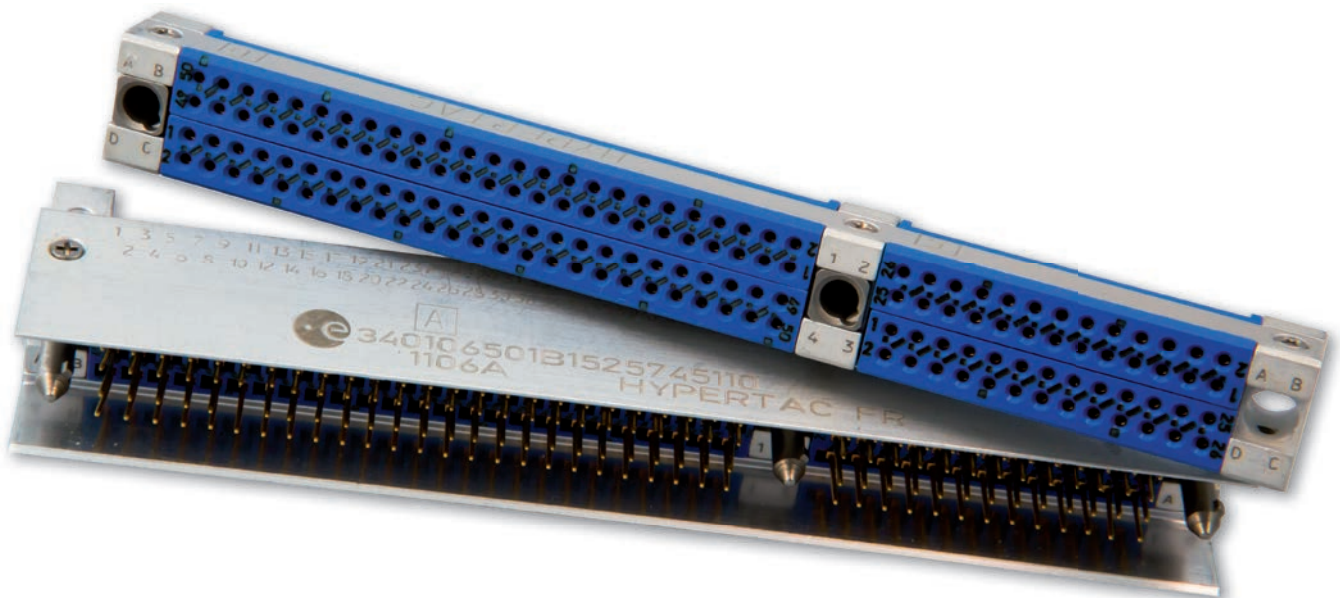


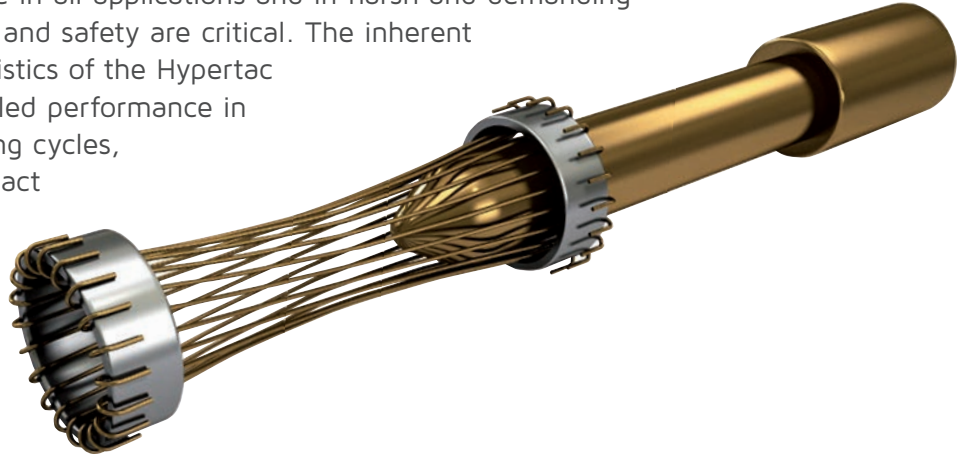
MHD / MDD / MDP Connectors Series

PCB High Density Connectors



Hypertac® Hyperboloid Technology

Smiths Interconnect offers an extensive range of superior contact technologies suitable for standard and custom solutions. Hypertac® (HYPERboloid conTACT) is the original superior performing hyperboloid contact technology designed for use in all applications and in harsh and demanding environments where high reliability and safety are critical. The inherent electrical and mechanical characteristics of the Hypertac hyperboloid contact ensures unrivalled performance in terms of reliability, number of mating cycles, low contact force and minimal contact resistance. The shape of the contact sleeve is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a number of linear contact paths.



Features

Benefits

Low insertion/extraction forces

The angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.

High density interconnect systems

Significant reductions in size and weight of sub-system designs. No additional hardware is required to overcome mating and un-mating forces.

Long contact life

The smooth and light wiping action minimizes wear on the contact surfaces. Contacts perform up to 100,000 insertion/extraction cycles with minimal degradation in performance.

Low cost of ownership

The Hypertac contact technology will surpass most product requirements, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.

Lower contact resistance

The design provides a far greater contact area and the wiping action of the wires insures a clean and polished contact surface. Our contact technology has about half the resistance of conventional contact designs.

Low power consumption

The lower contact resistance of our technology results in a lower voltage drop across the connector reducing the power consumption and heat generation within the system.

Higher current ratings

The design parameters of the contact (e.g., the number, diameter and angle of the wires) may be modified for any requirement. The number of wires can be increased so the contact area is distributed over a larger surface. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.

Maximum contact performance

The lower contact resistance of the Hypertac contact reduces heat build-up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.

Immunity to shock & vibration

The low mass and resultant low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without loss of contact. The contact area extends 360° around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity in all circumstances.

Reliability under harsh environments

Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. The Hypertac contact provides unmatched stability in demanding environments when failure is not an option.

Contents

MHD Series

Technical characteristics	2
How to order.....	3
Modules configuration.....	4
Standard plugging stages.....	5
Termination styles	6
Connector dimensions	7
Guiding devices	13
Contact board preparation details	14
Power and high frequency contacts	18

MDD Series

Technical characteristics	19
How to order.....	20
Modules configuration.....	21
Standard plugging stages.....	22
Termination styles	23
Connector dimensions	24
Guiding devices	25
Contact board preparation details	26

MDP Series

Technical characteristics	27
How to order.....	28
Connector dimensions	29
Guide and termination styles	30
Contact board preparation details	31

Technical Characteristics

Materials & Platings

Insulator	Diallyl Phtalate UL94V0
Frame	Aluminium Alloy
Contact	Copper Alloy
Guide	Brass + Ni plating or Stainless Steel
Contact plating	Ni + Au

Environmental

Temperature range	- 55° C to +125° C
Safety of contact from extraction	Statical 2 mm / 0.079" Dynamical 1.80 mm / 0.071"
Mating cycles	5000
Withdrawal forces	≤ 0.5 N
Special contacts	According to NFC 93569

Electrical

Contact resistance	Signal ≤ 12 mΩ Power ≤ 2 mΩ
Current rating	Signal 3 A Power 15 A
Insulation	>10 ⁴ MΩ
Voltage rating	200 V
Proof voltage	800 V
Contact diameter	Signal 0.50 mm Power 2.00 mm
Impedance	Coaxial 50 Ω

How To Order



Code ESA	3401-065 01B				
Code HYPERTAC	MHD				
	1	2	3	4	5
1 Series					
2 Arrangement	052 100	152 200	252 300	352 400	5HA 2XA 1HB 7XB 6XA 3HB
3 Part - Polarity Plating	13 17	55 Male Plug Standard plating 57 Male Plug Pretinned	22 26	44 Female Receptacle Standard plating 46 Female Receptacle Pretinned	
4 Termination Styles	052 90° termination, PCB thickness 1.60 122 90° termination, PCB thickness 3.20 31 Straight termination, PCB thickness 3.20 42 SMT ³⁾ - PCB thickness 3.20 44 SMT ³⁾ - Uncentered PCB thickness 3.80 47 SMT ³⁾ - Uncentered PCB thickness 2.40 111 ¹⁾ 90° termination, PCB thickness 2.40 30 Straight termination, PCB thickness 2.40 41 SMT ³⁾ - PCB thickness 1.60 43 SMT ³⁾ - PCB thickness 2.40 45 SMT ³⁾ - Uncentered PCB thickness 1.60 91 Female / male saver ⁴⁾				
5 Guide Styles	110 Male polarised, transverse mount, standard plug 121 Female polarised, vertical mount 124 Female polarised, transverse mount 126 Female unpolarised, vertical mount 131 Female polarised, vertical mount 134 Female polarised, transverse mount 191 Male power or mass contact, transverse mount 111 Male polarised, vertical mount 122 Female polarised, vertical mount 125 Male unpolarised, transverse mount 130 Female polarised, vertical mount 133 Female all polarised, transverse mount 190 Female power or mass contact, vertical mount 201 ¼ turn, free connector				

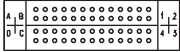
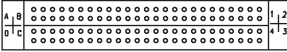
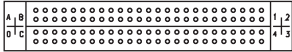
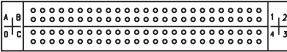
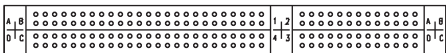
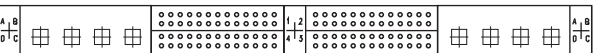
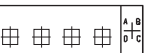
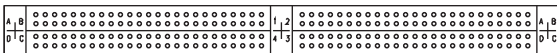
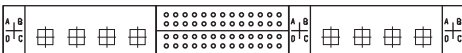
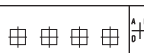
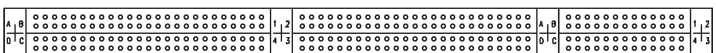
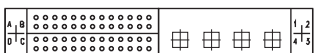
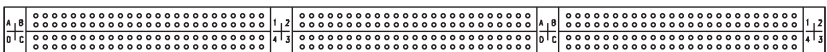
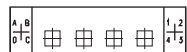
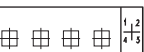
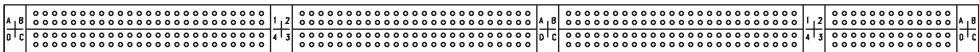
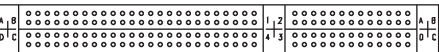
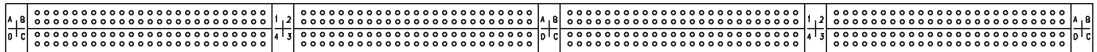
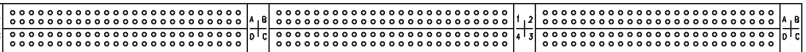
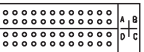
1) Available for receptacle connector
2) Available for plug connector
3) Surface Mount Termination
4) Consult us – PCB thickness is in mm

Modules Configuration

Single Arrangements

Receptacle Mating Side Views

Mixed Arrangements

052				3HB
100				7XB
152				2XA
200				6XA
252				1HB
300				5HA
352				
400				

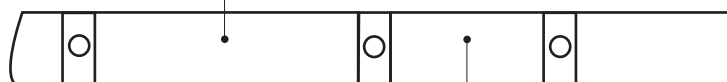
26 ways module



50 ways module

4 ways module
(special contacts)

Space which can receive:
2x50 ways module
or
2x26 ways module
1x4 ways module
or
2x4 ways module

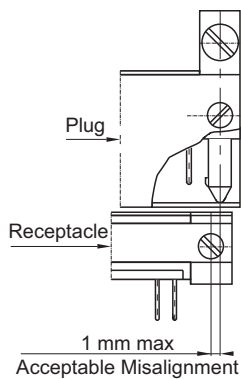


Space which can receive:
2x26 ways module
or
1x4 ways module

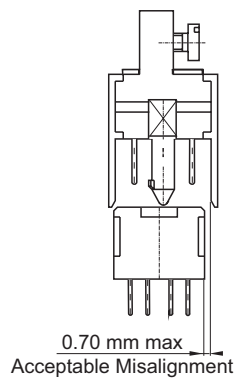
Standard Plugging Stages

Misalignment

Longitudinal

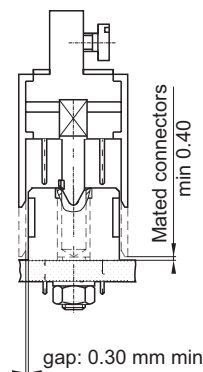


Lateral



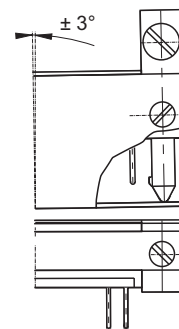
Gap

Lateral

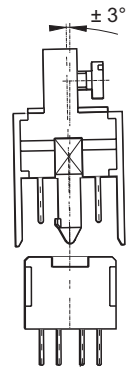


Tilting

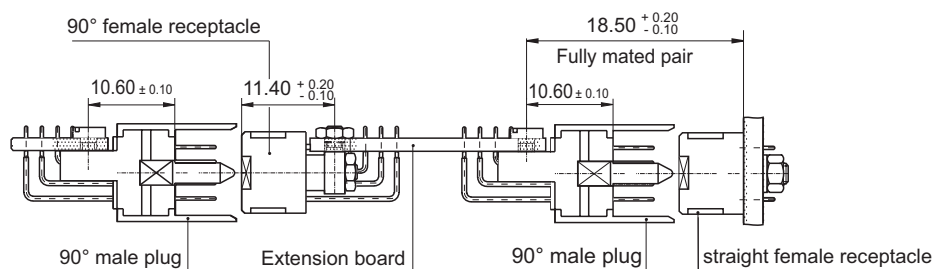
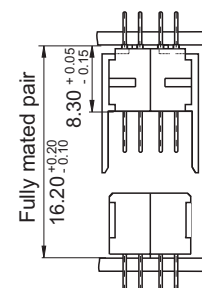
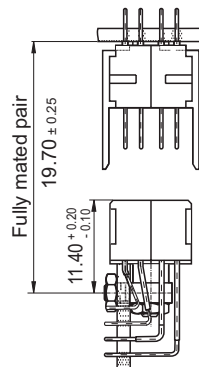
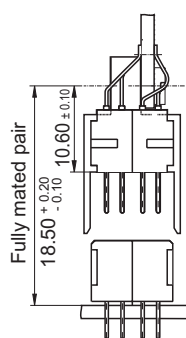
Longitudinal



Lateral



Mounting Examples



Displacement

Max displacement allowed while plugging in the receptacle: 0.15 mm in all plugged in connector ways.

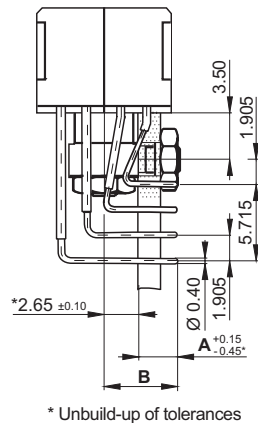
Termination Styles

Receptacle

Through board solder - 90°

Ref: 10
PCB: 1.44 - 1.76
 $A = 3.25^{+0.15}_{-0.45}$
 $B = 6 \text{ max}$

Ref: 11
PCB: 1.98 - 2.42
 $A = 3.85^{+0.15}_{-0.45}$
 $B = 6.60 \text{ max}$

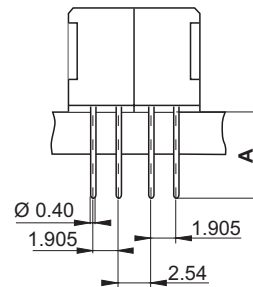


Through board solder - Straight

Ref: 30
PCB: 2.16 - 2.64
 $A = 3.50 \text{ min}$
 $A = 4.00 \text{ max}$

Ref: 31
PCB: 2.88 - 5.50
 $A = 6.10 \text{ min}$
 $A = 6.60 \text{ max}$

Ref: 96
PCB: 3.42 - 4.18
 $A = 4.70 \text{ min}$
 5.10 max

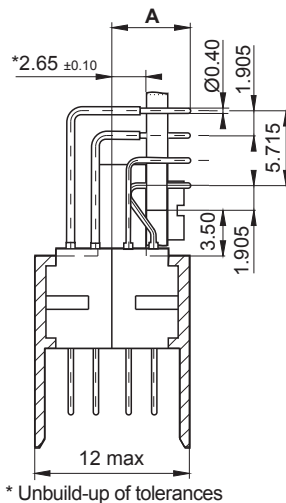


Plug

Through board solder - 90°

Ref: 10
PCB: 1.44 - 1.76
 $A = 5.95 \text{ max}$

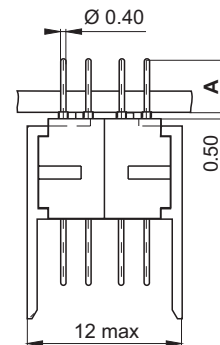
Ref: 12
PCB: 2.88 - 3.52
 $A = 7.60 \text{ max}$



Through board solder - Straight

Ref: 30
PCB: 2.16 - 2.64
 $A = 3.50 \text{ min}$
 $A = 4.00 \text{ max}$

Ref: 31
PCB: 2.88 - 3.52
 $A = 4.60 \text{ min}$
 $A = 5.10 \text{ max}$

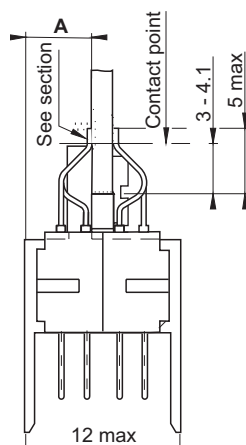


Surface mount (centered PCB)

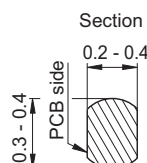
Ref: 41
PCB: 1.44 - 1.76
 $A = 5.20 \text{ max}$

Ref: 42
PCB: 2.88 - 3.52
 $A = 4.40 \text{ max}$

Ref: 43
PCB: 2.16 - 2.64
 $A = 4.80 \text{ max}$



Section of termination
Mandatory only for
termination 43, 45 & 47
(ESCC 3401-065)

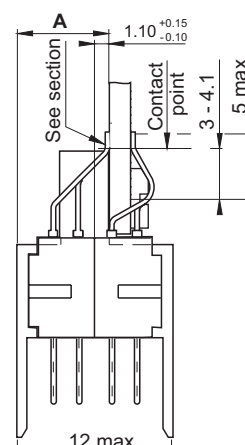


Surface mount (uncentered PCB)

Ref: 44
PCB: 3.60 - 4.00
 $A = 4.40 \text{ max}$

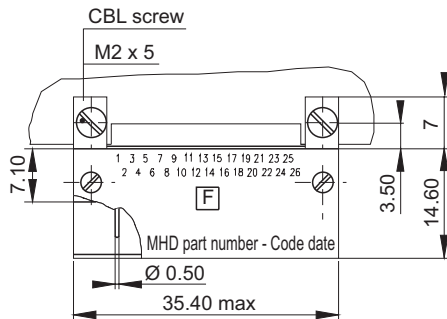
Ref: 45
PCB: 1.44 - 2.40
 $A = 7 \text{ max}$

Ref: 47
PCB: 2.16 - 2.70
 $A = 7 \text{ max}$

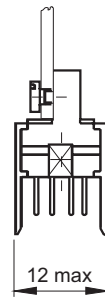


Connector Dimensions

Plug

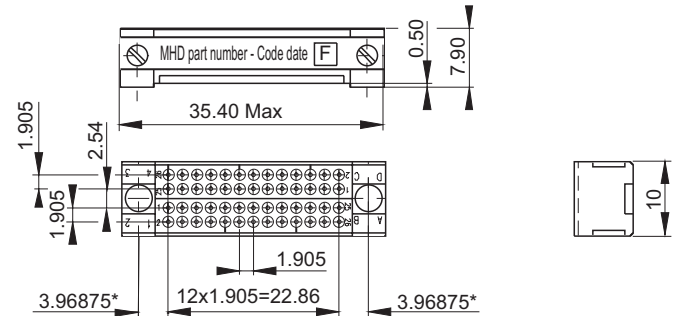


52 contacts

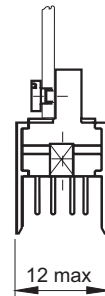


View mating side

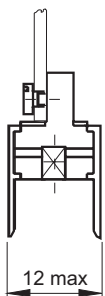
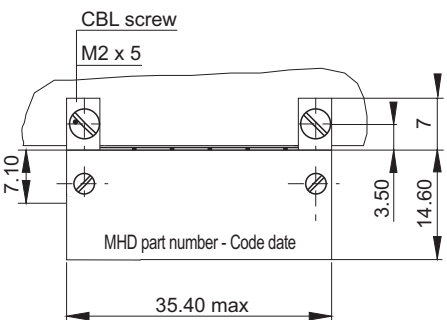
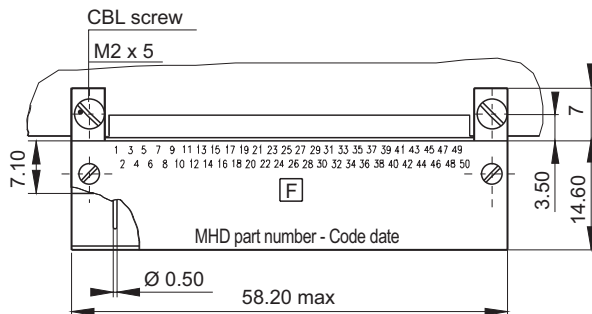
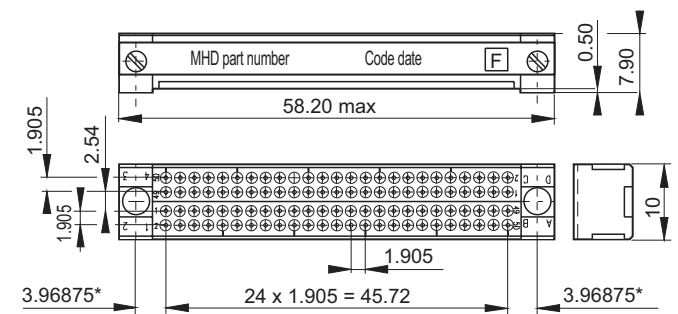
Receptacle



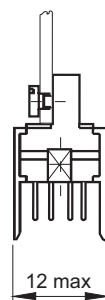
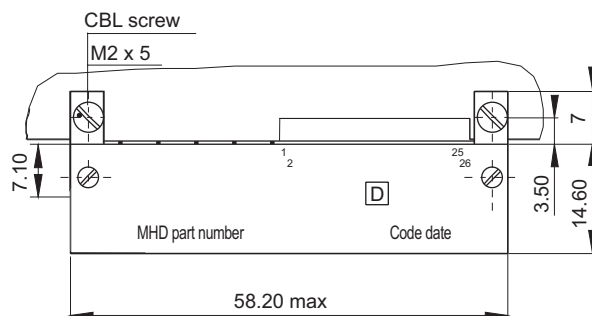
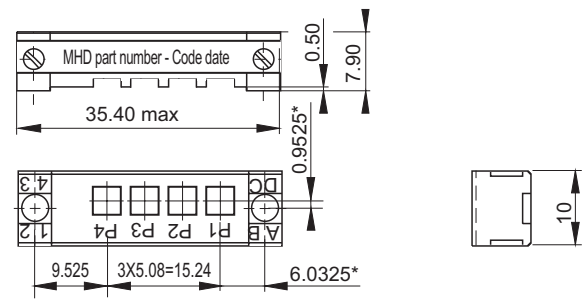
100 contacts



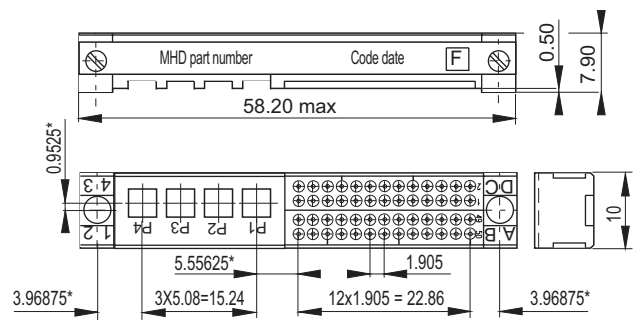
View mating side



View mating side



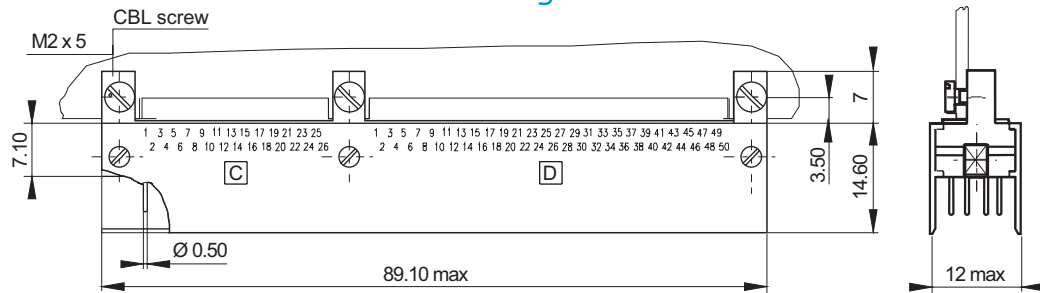
View mating side



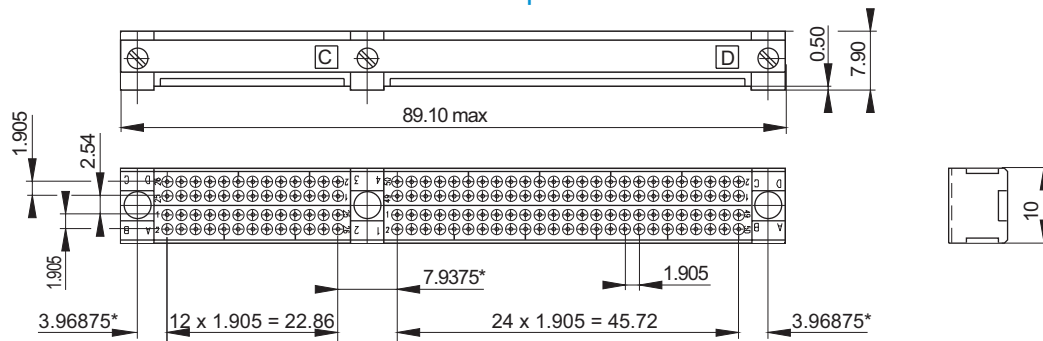
* Theoretical dimensions

The termination side contact configurations are specified on board preparation details.

152 Contacts Plug

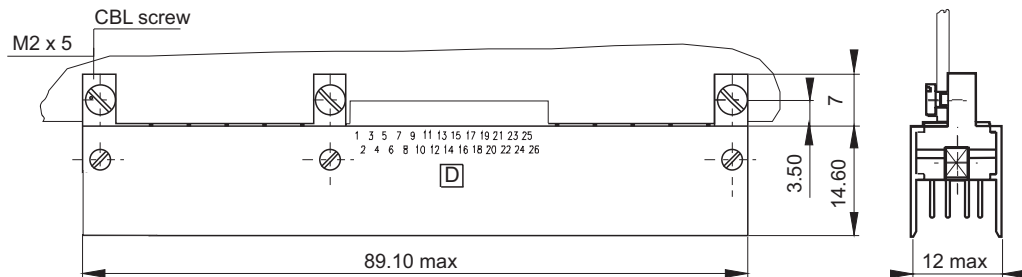


Receptacle

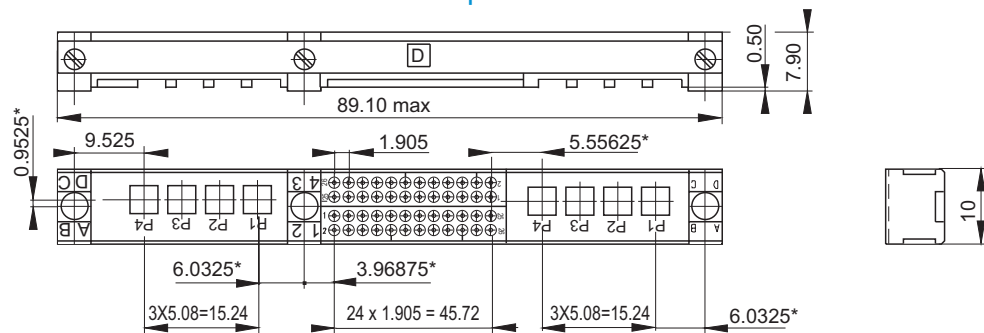


View mating side

6XA Plug



Receptacle

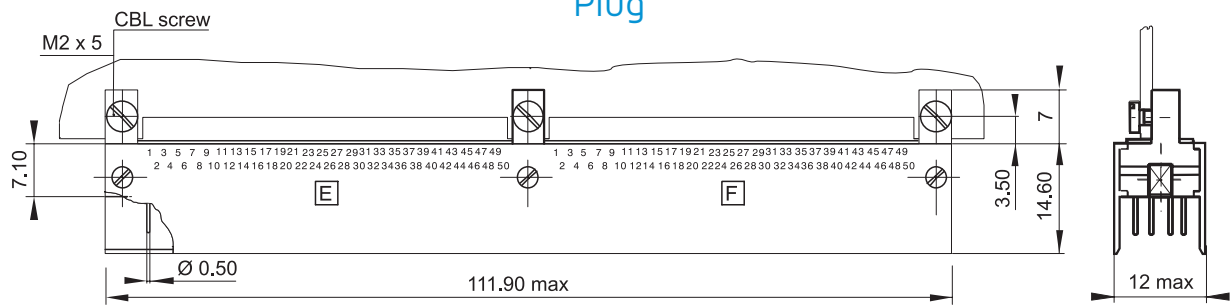


View mating side

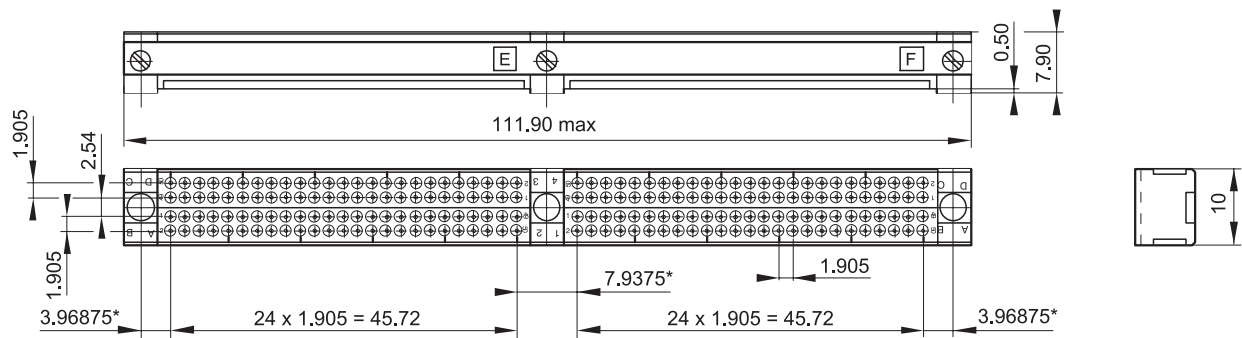
* Theoretical dimensions

The termination side contact configurations are specified on board preparation details.

200 Contacts Plug

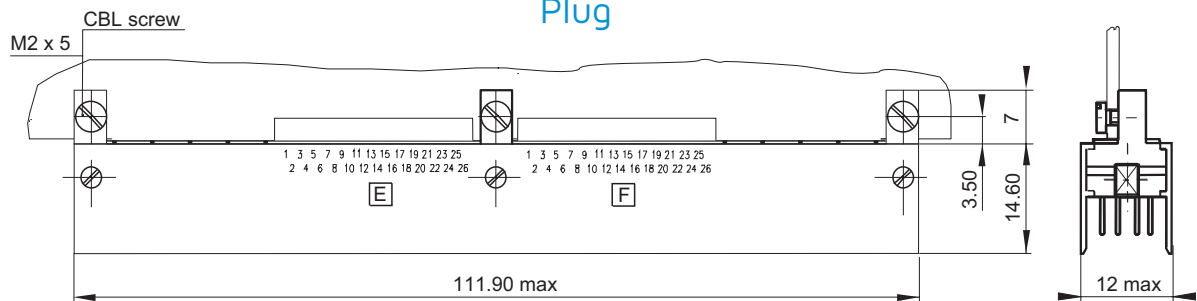


Receptacle

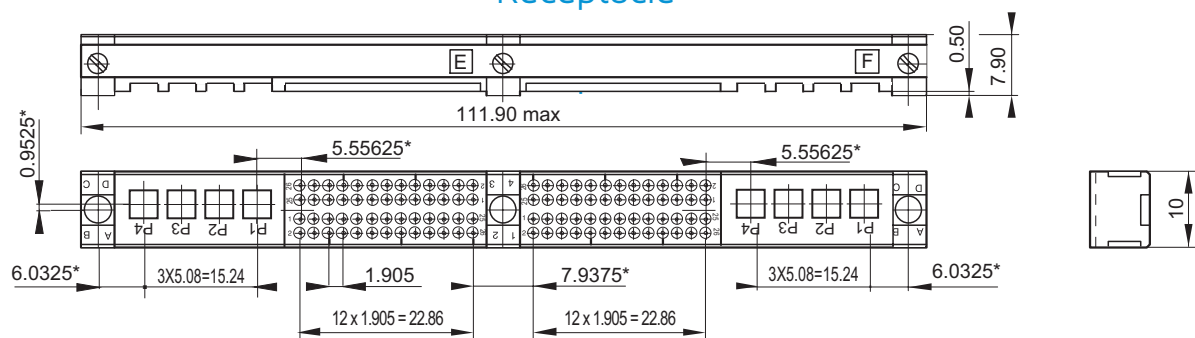


View mating side

2XA Plug



Receptacle



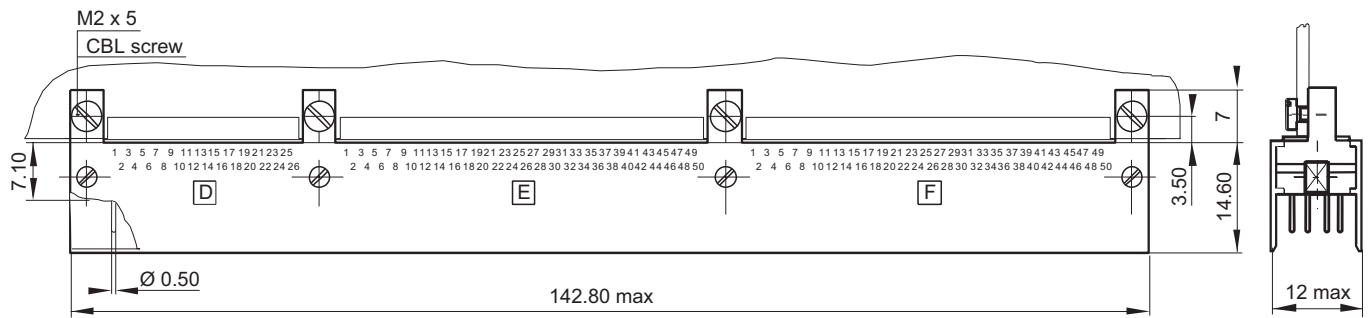
View mating side

* Theoretical dimensions

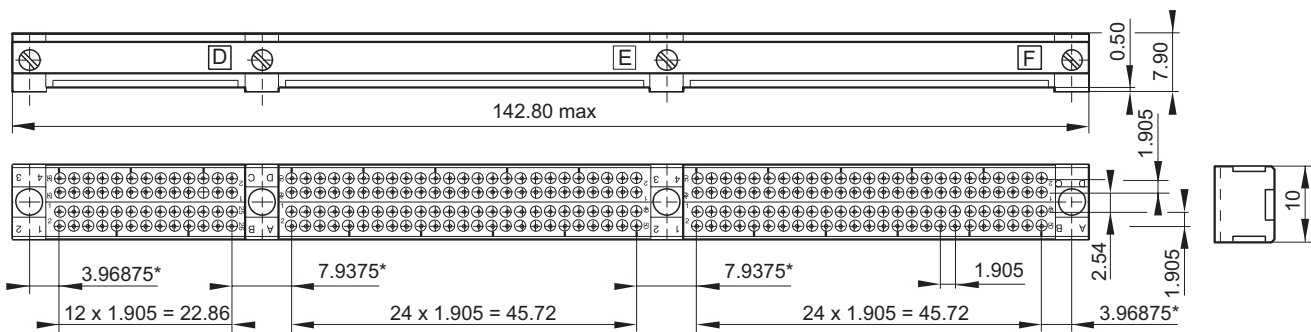
The termination side contact configurations are specified on board preparation details.

252 Contacts

Plug



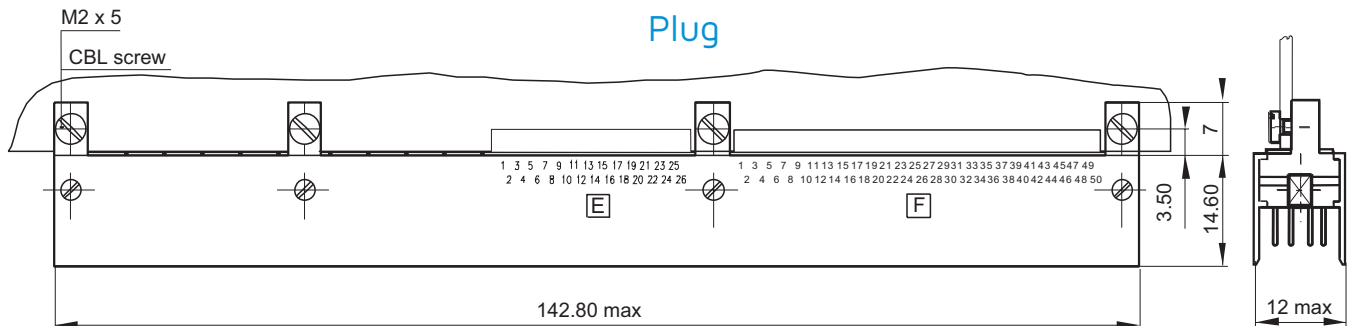
Receptacle



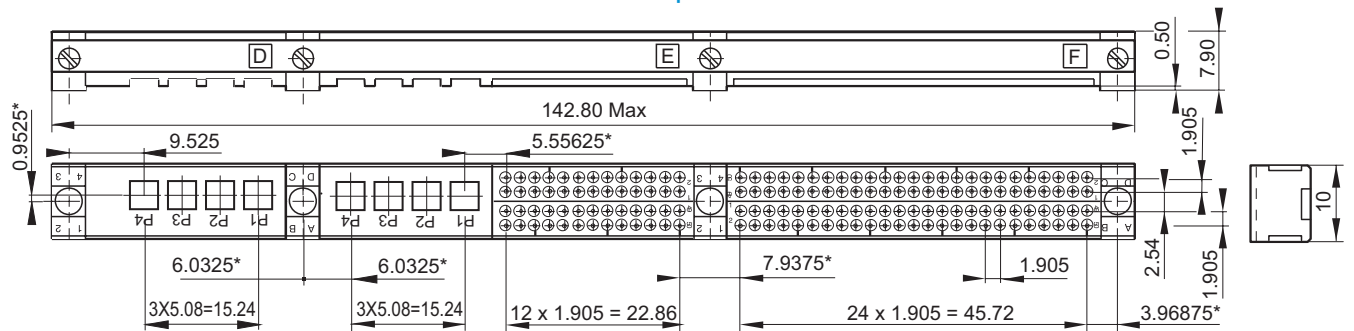
View mating side

7XB

Plug



Receptacle

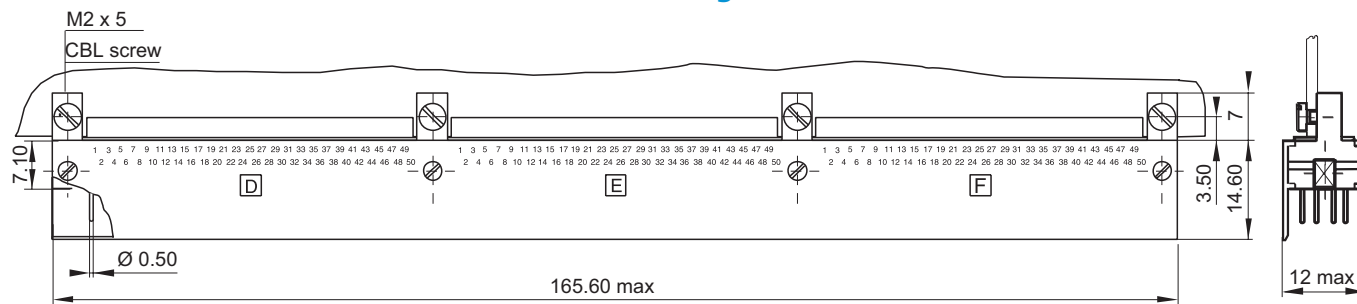


View mating side

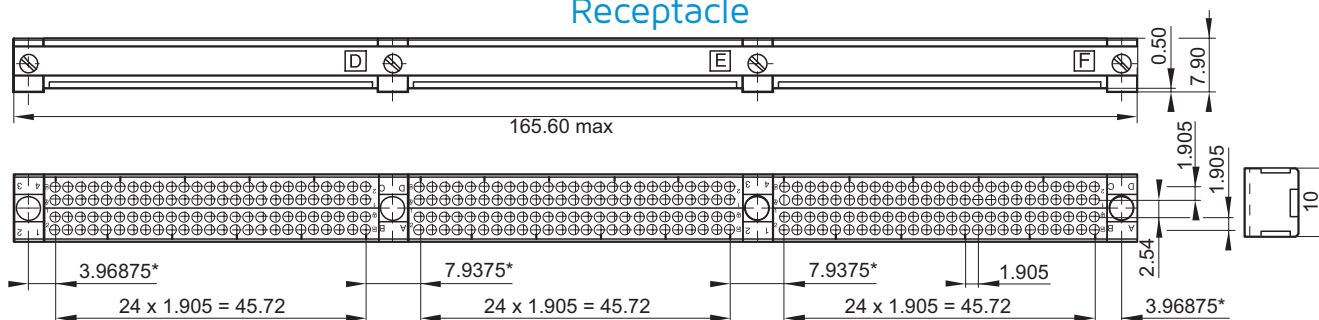
* Theoretical dimensions

The termination side contact configurations are specified on board preparation details.

300 Contacts Plug

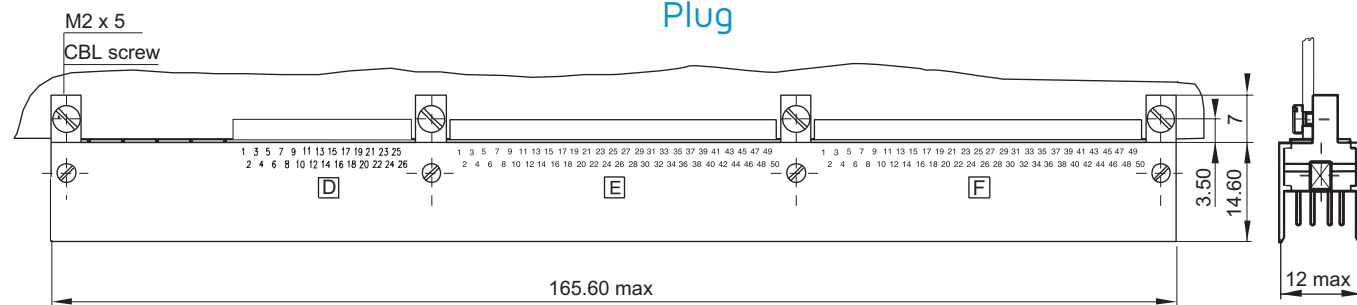


Receptacle

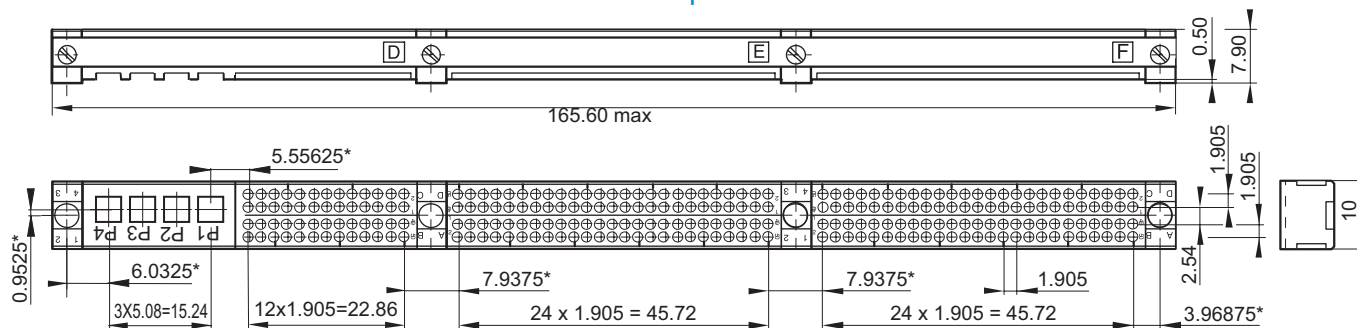


View mating side

3HB Plug



Receptacle



View mating side

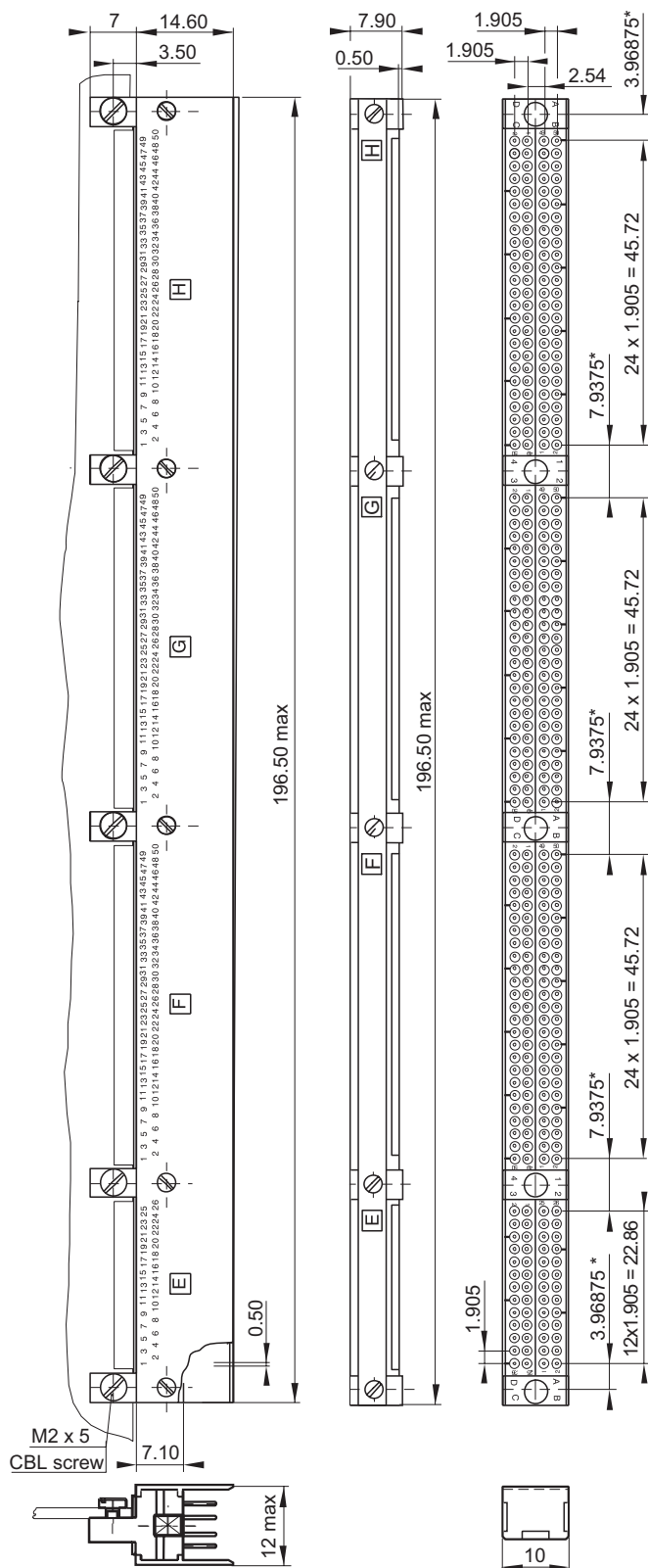
* Theoretical dimensions

The termination side contact configurations are specified on board preparation details.

352 Contacts

Plug

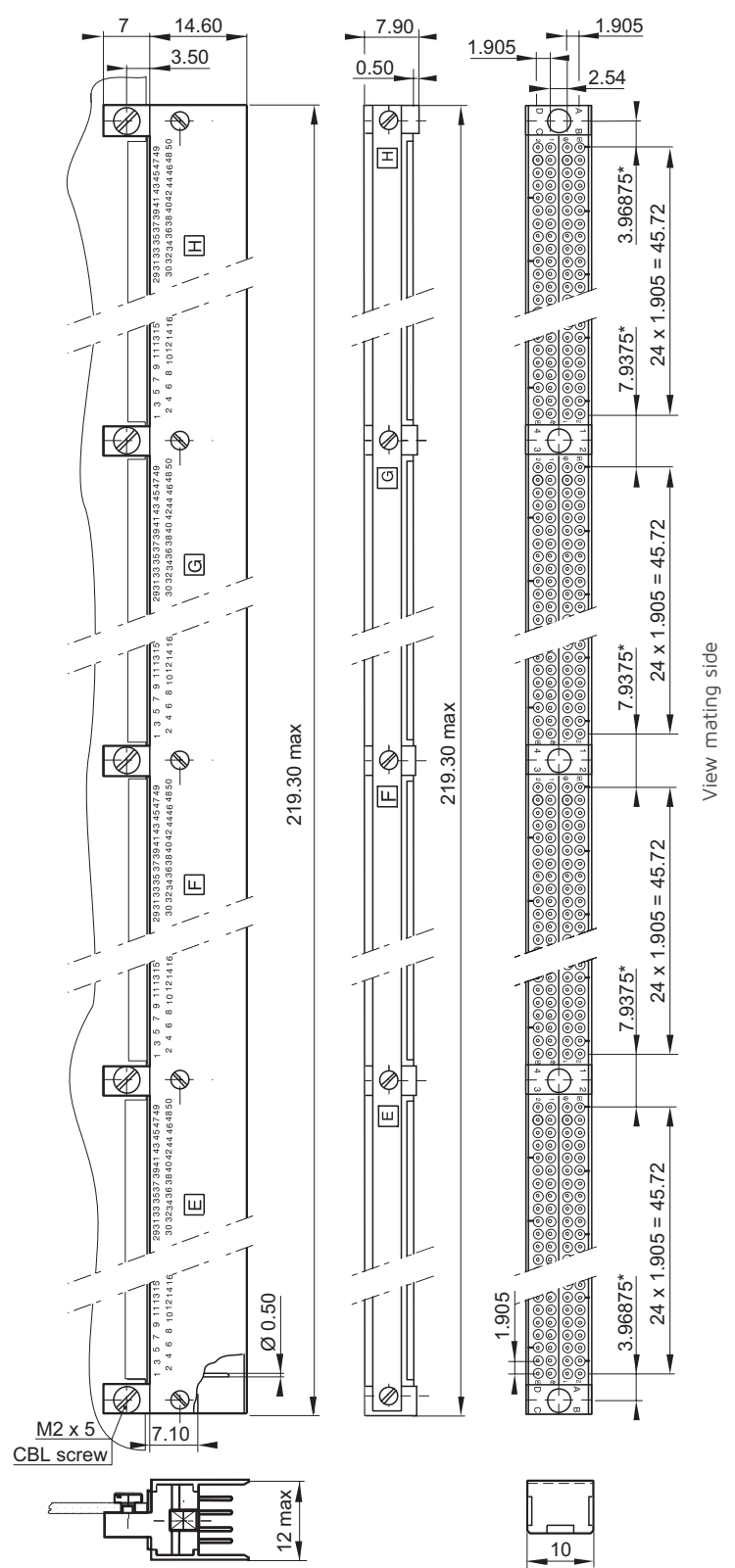
Receptacle



400 Contacts

Plug

Receptacle



* Theoretical dimensions

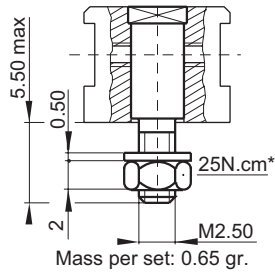
The termination side contact configurations are specified on board preparation details.

Guiding Devices

Receptacle

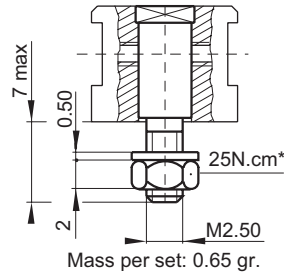
MHD 00- __ 121

Polarised female guide vertical mounting (Length: 5.50)



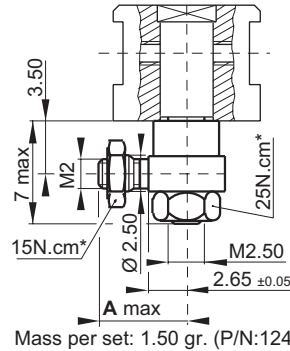
MHD 00- __ Z122

Polarised female guide vertical mounting (Length: 7)



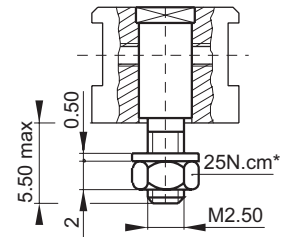
MHD 00- __ Z124 / Z134

Polarised female guide transverse mounting P/N 124: A=6; 134: A=6.60



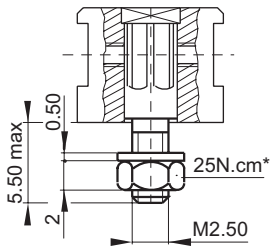
MHD 00- __ Z126

Unpolarised female guide vertical mounting



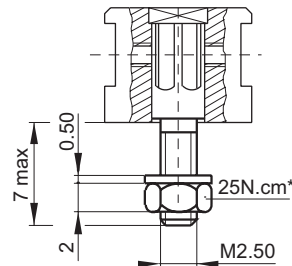
MHD 00- __ Z130

All polarity female guide vertical mounting (Length: 5.50)



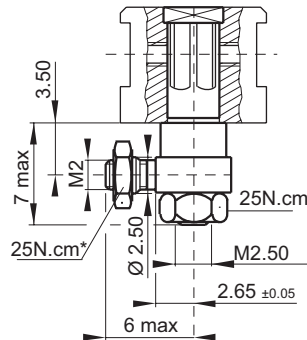
MHD 00- __ Z131

All polarity female guide vertical mounting (Length: 7)



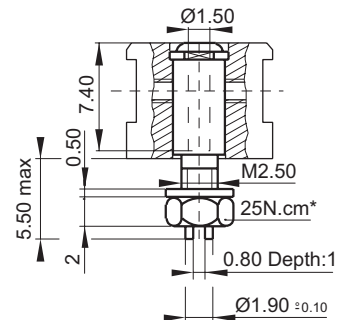
MHD 00- __ Z133

All polarity female guide transverse mounting



MHD 00- __ Z190

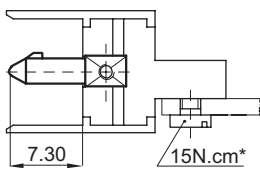
Ground female guide vertical mounting



Plug

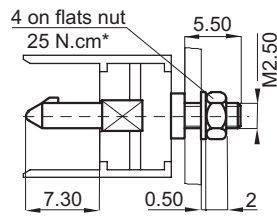
MHD 00- __ 110

Polarised male guide transverse mounting



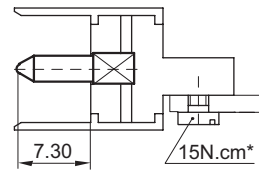
MHD 00- __ Z111

Polarised male guide vertical mounting



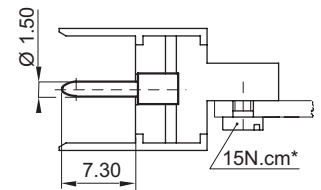
MHD 00- __ Z125

Unpolarised male guide transverse mounting



MHD 00- __ Z191

Ground male contact transverse mounting



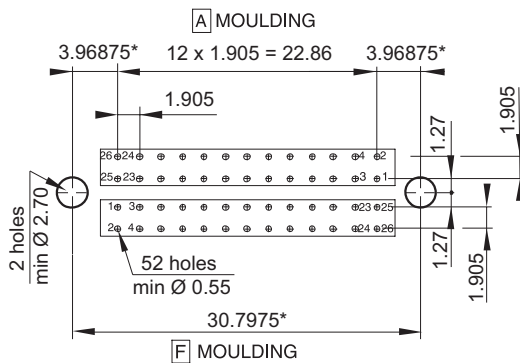
Contact Board Preparation Details

52 Contact Board Preparation Details ⁽¹⁾

Receptacle

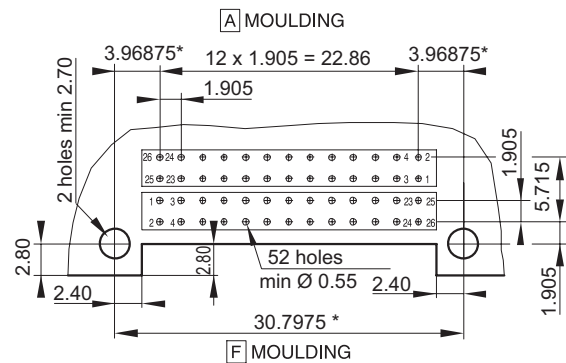
Straight Termination

Guides: 121, 122, 126, 130, 131, 190



90° Termination

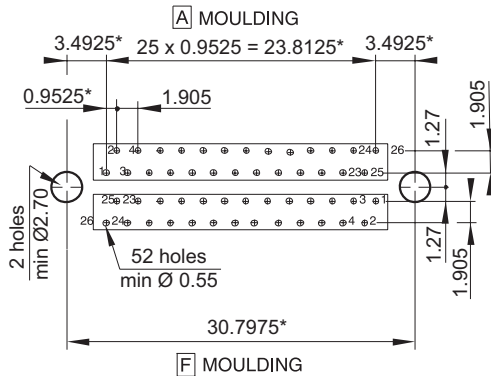
Guides: 124, 133, 134



Plug

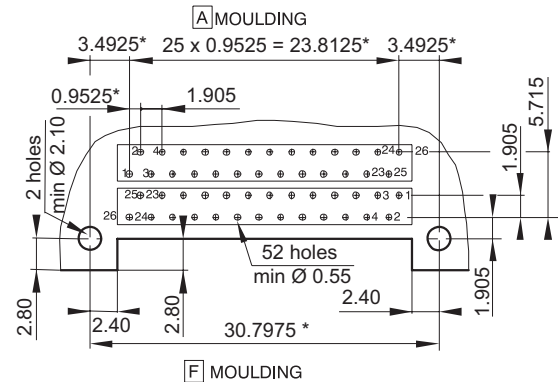
Straight Termination

Guides: 111



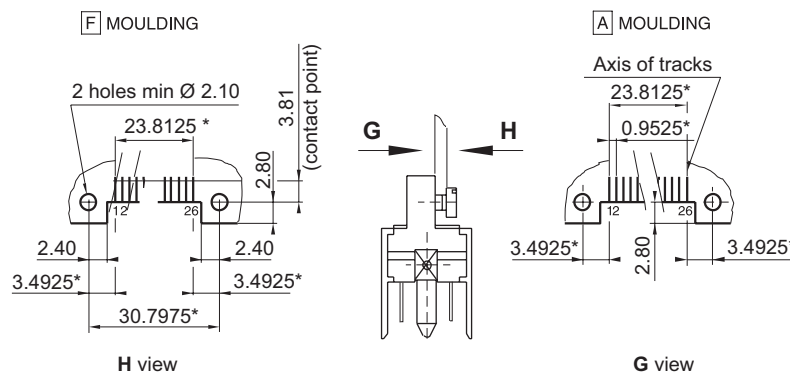
90° Termination

Guides: 110, 125, 191



Surface mount termination

Guides: 110, 125, 191



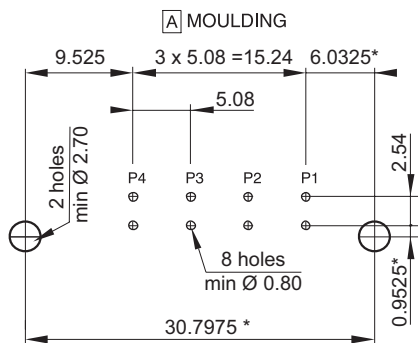
(1) Important note: See important note on 1HB preparation board details (page 17).

5HA Contact Board Preparation Details ⁽¹⁾

Receptacle

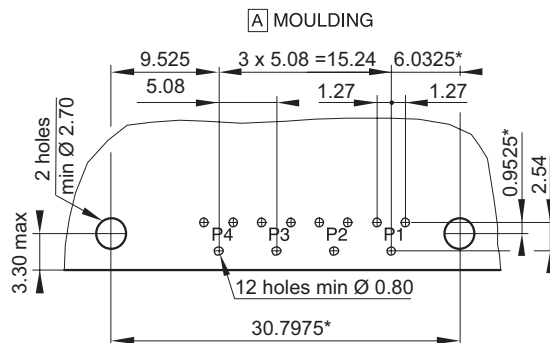
Straight Termination

Guides: 121, 122, 126, 130, 131, 190



90° Termination

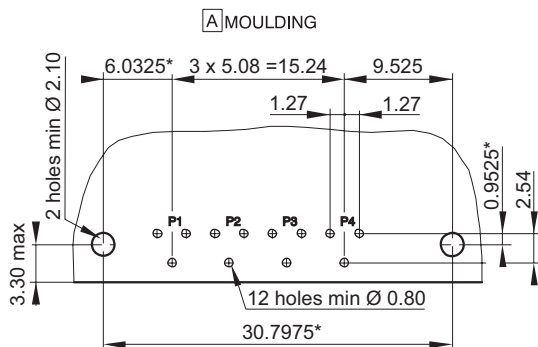
Guides: 124, 133, 134



Plug

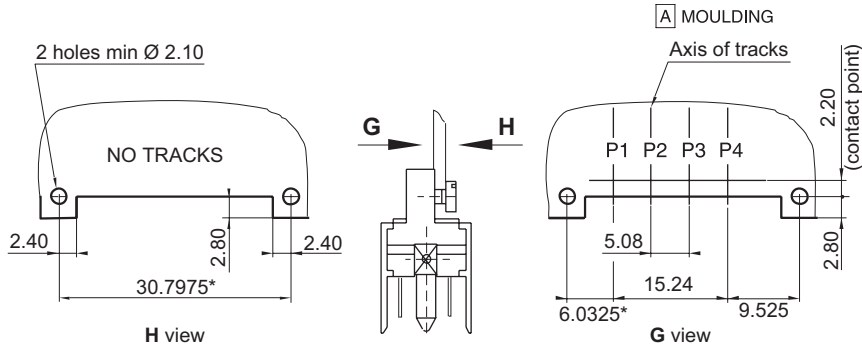
90° Termination

Guides: 110, 125, 191



Surface mount termination

Guides: 110, 125, 191



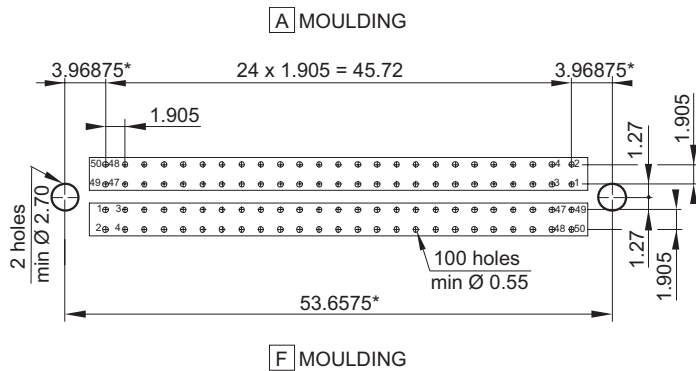
(1) Important note: See important note on 1HB preparation board details (page 17).

100 Contact Board Preparation Details ⁽¹⁾

Receptacle

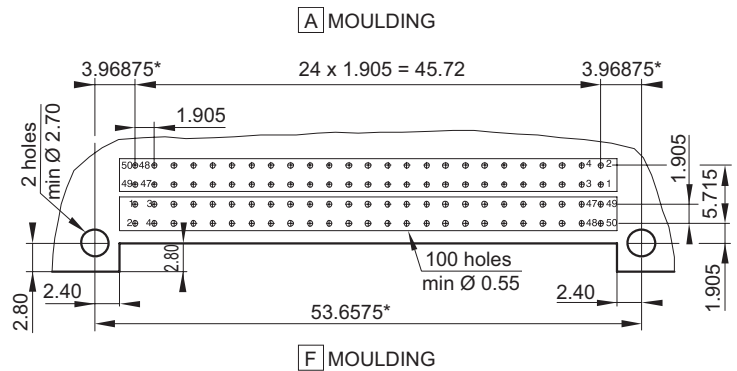
Straight termination

Guides: 121, 122, 126, 130, 131, 190



90° Termination

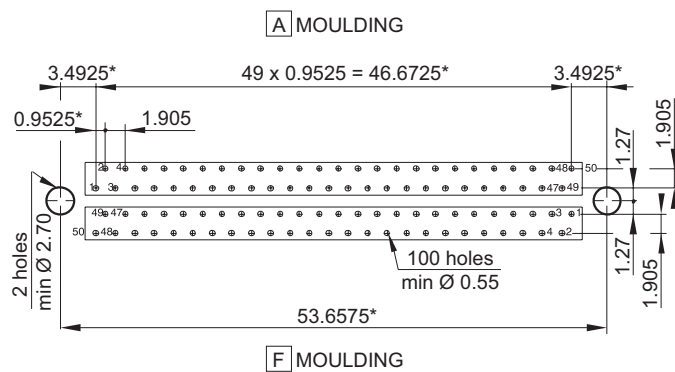
Guides: 124, 133, 134



Plug

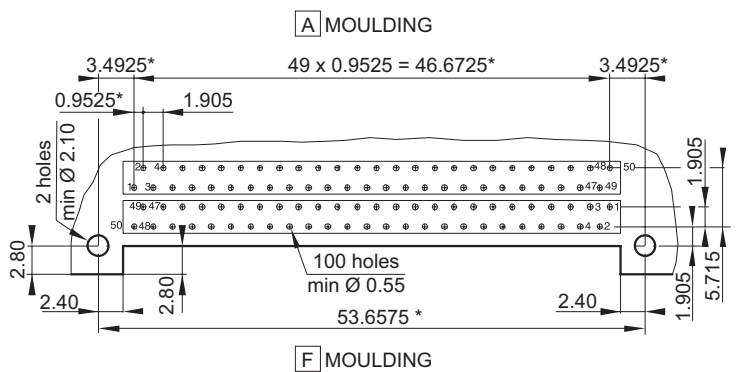
Straight termination

Guides: 111



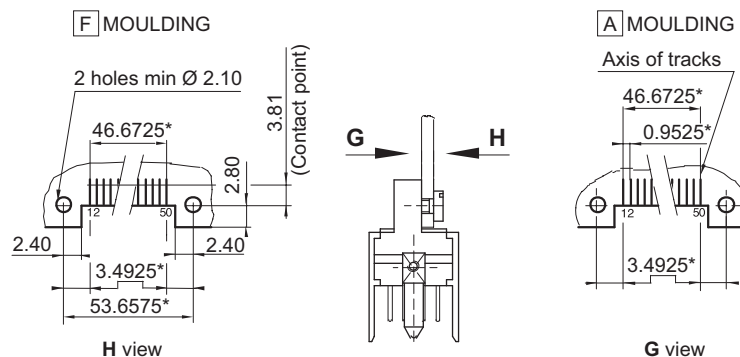
90° Termination

Guides: 110, 125, 191



Surface mount termination

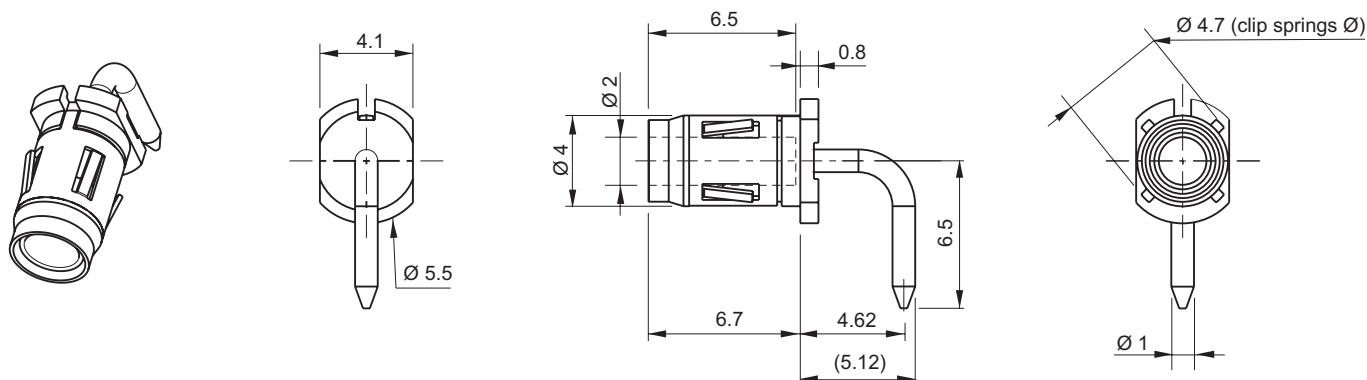
Guides: 110, 125, 191



(1) Important note: See important note on 1HB preparation board details (page 17).

Power & High Frequency Contacts *(NFC 93569)*

Example of Contact Overview *(020 084 2- 10 RG1)*



Power Contacts

Male	P/N
90° termination	020 085 1- 10R OG
Straight termination	020 087 1- 30R OG
Solder bucket termination	020 091 1- 40R OG

Female	P/N
90° termination	020 084 2- 10R G1
Straight termination	020 056 2- 30R G1
Solder bucket termination	020 060 2- 40R G1

High Frequency Contacts

	Male P/N	Female P/N
Vertical mounting, suitable for flexible cable Ø 1.9 max. Ref. KX 21 A (Rg 178 B/U or RG 196).	KMX 3-M 081	KMX 3-F 081
Transverse mounting, suitable for flexible cable Ø 1.9 max. Ref. KX 21 A (Rg 178 B/U or RG 196). Usable with mother board, thickness 3.2 mm max.	KMX 3-M 092	KMX 3-F 092
Vertical mounting, suitable for flexible cable Ø 2.5 max. Ref. KX 22 A (RG 316).	KMX 3-M 101	KMX 3-F 101
Transverse mounting, suitable for flexible cable Ø 2.5 max. Ref. KX 22 A (RG 316). Usable with mother board, thickness 3.2 mm max.	KMX 3-M 112	KMX 3-F 112
Vertical mounting, suitable to semi-rigid cable Ø 2.2 max. Ref. Ks 1 A (RG 405 - UT 85).	KMX 3-M 131	KMX 3-F 131
Transverse mounting, suitable to semi-rigid cable Ø 2.2 max. Ref. Ks 1 A (RG 405 - UT 85). Usable with mother board, thickness 3.2 mm max.	KMX 3-M 142	KMX 3-F 142
Straight termination tail for direct mounting on to PCB	KMX 3-M 041	KMX 3-F 041
90° termination tail for direct mounting on to PCB	KMX 3-M 032	KMX 3-F 032
SMT termination	KMX 3-M 172	KMX 3-F 172

Extraction Tools

P/N: SD- 030 00 CX 003

Technical Characteristics

Materials & Platings

Insulator	Diallyl Phtalate UL94V0
Frame	Aluminium Alloy
Contact	Copper Alloy
Guide	Brass + Ni plating or Stainless Steel
Contact plating	Ni + Au

Environmental

Temperature range	- 55° C to +125° C
Safety of contact from extraction	Statical 2 mm / 0.079" Dynamical 1.80 mm / 0.071"
Mating cycles	5000
Withdrawal forces	≤ 0.5 N
Special contacts	According to NFC 93569

Electrical

Contact resistance	Signal ≤ 12 mΩ
Current rating	Signal 3 A
Insulation	>10 ⁴ MΩ
Voltage rating	200 V
Proof voltage	800 V
Contact diameter	Signal 0.50 mm

How To Order



MDD

1



2



3



4



5

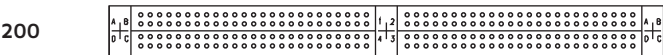
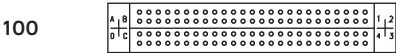
1 Series		
2 Arrangement	1 0 0 2 0 0	
3 Part - Polarity Plating	1 5 Male plug - MIL plating 1 9 Male plug - MIL tinned plating	2 4 Female receptacle - MIL plating 2 8 Female receptacle - MIL tinned plating
4 Termination Styles	1 0 90° termination, PCB thickness 1.60 3 0 Straight termination, PCB thickness 2.40 4 4 SMT* - Uncentered PCB thickness 3.80	1 1 90° termination, PCB thickness 2.40 3 1 Straight termination, PCB thickness 3.20 9 6 Straight termination, PCB thickness 4.50
5 Guide Styles	1 1 0 Male polarised, transverse mount, standard plug 1 2 1 Female polarised, vertical mount 1 2 4 Female polarised, transverse mount 1 2 6 Female unpolarised, vertical mount 1 3 1 Female all polarised, vertical mount 1 3 4 Female polarised, transverse mount 1 9 1 Male power or mass contact, transverse mount	1 1 1 Male polarised, vertical mount 1 2 2 Female polarised, vertical mount 1 2 5 Male unpolarised, transverse mount 1 3 0 Female all polarised, vertical mount 1 3 3 Female all polarised, transverse mount 1 9 0 Female power or mass contact, vertical mount 2 0 1 ¼ turn, free connector

* Surface Mount Termination
PCB thickness is in mm

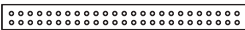
Modules Configuration

Receptacle - Mating Side Views

Single arrangements



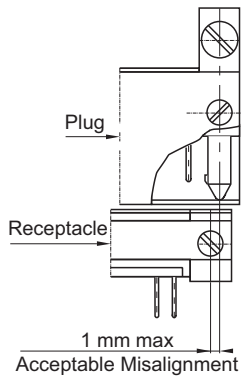
50 ways module



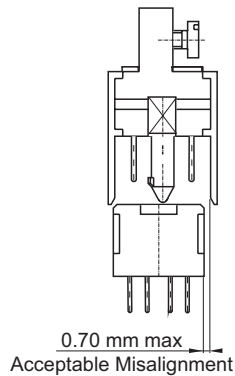
Standard Plugging Stages

Misalignment

Longitudinal

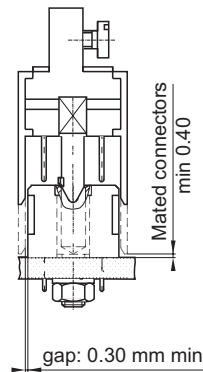


Lateral

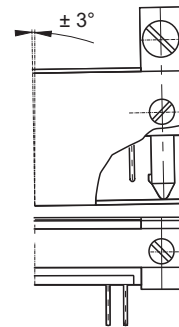


Gap

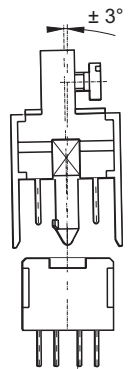
Lateral



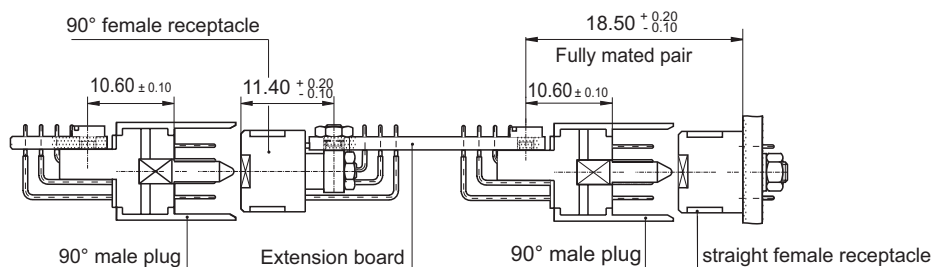
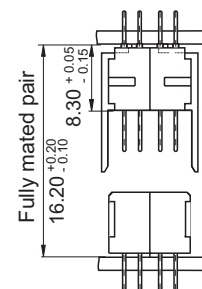
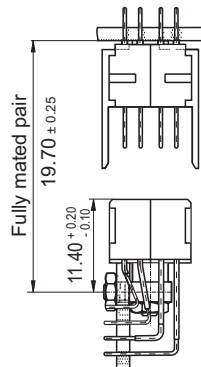
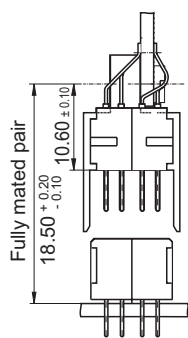
Longitudinal



Lateral



Mounting Examples



Displacement

Max displacement allowed while plugging in the receptacle: 0.15 mm in all plugged in connector ways.

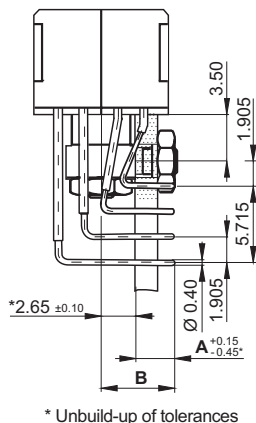
Termination Styles

Receptacle

Through board solder - 90°

Ref: 10
PCB: 1.44 - 1.76
A = 3.25^{+0.15}
B = 6 max^{0.45}

Ref: 11
PCB: 1.98 - 2.42
A = 3.85^{+0.15}
B = 6.60 max

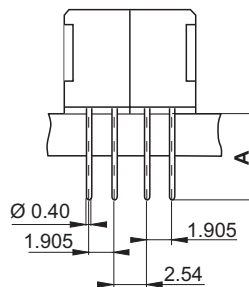


Through board solder - Straight

Ref: 30
PCB: 2.16 - 2.64
A = 3.50 min
4.00 max

Ref: 31
PCB: 2.88 - 5.50
A = 6.10 min
6.60 max

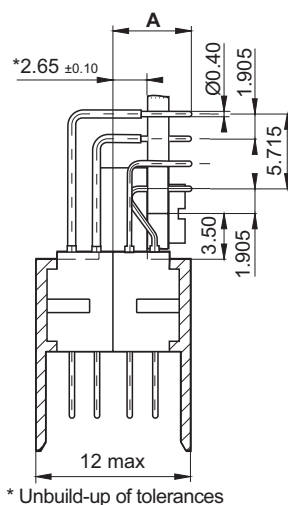
Ref: 96
PCB: 3.42 - 4.18
A = 4.70 min
5.10 max



Plug

Through board solder - 90°

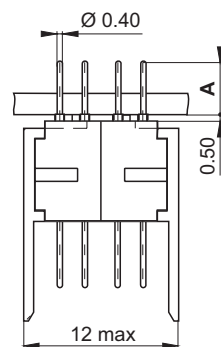
Ref: 10
PCB: 1.44 - 1.76
A = 5.95 max



Through board solder - Straight

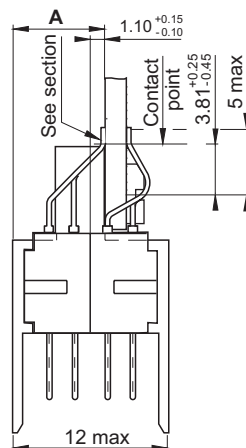
Ref: 30
PCB: 2.16 - 2.64
A = 3.50 min
4.00 max

Ref: 31
PCB: 2.88 - 3.52
A = 4.60 min
5.10 max



Surface Mount (uncentered PCB)

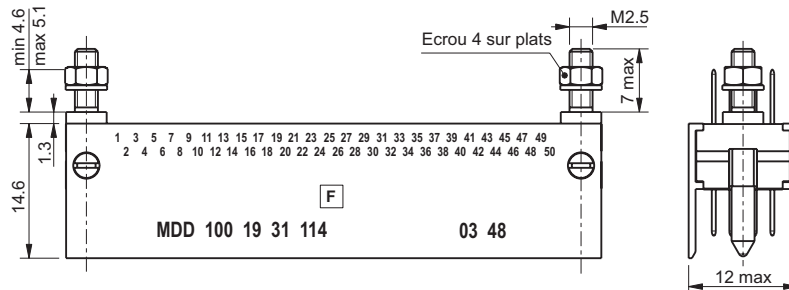
Ref: 44
PCB: 3.60 - 4.00
A = 4.40 max



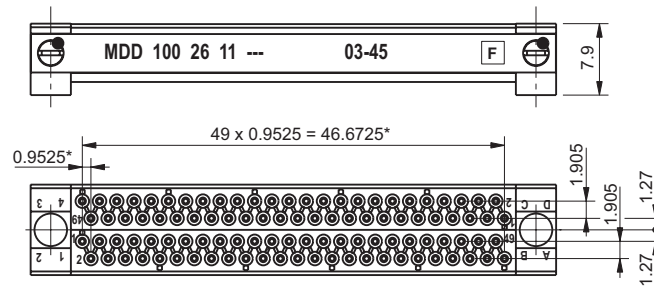
Connector Dimensions

100 Contacts

Plug

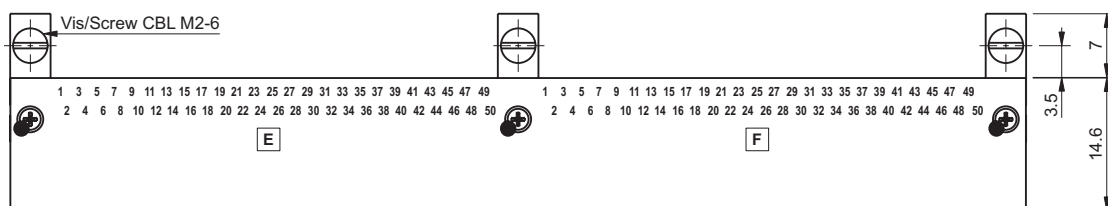


Receptacle

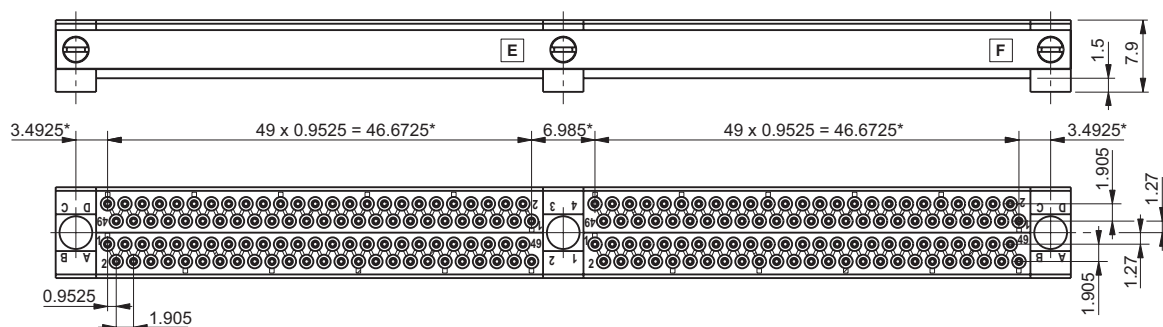


200 Contacts

Plug



Receptacle



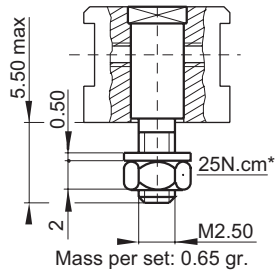
* Theoretical dimensions

Guiding Devices

Receptacle

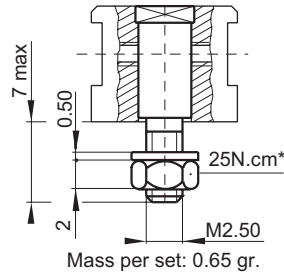
MHD 00- __ 121

Polarised female guide vertical mounting (Length: 5.50)



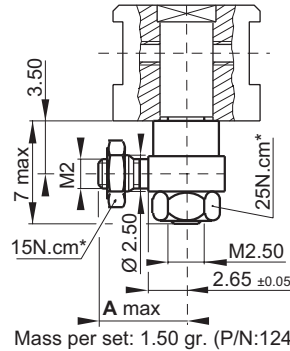
MHD 00- __ Z122

Polarised female guide vertical mounting (Length: 7)



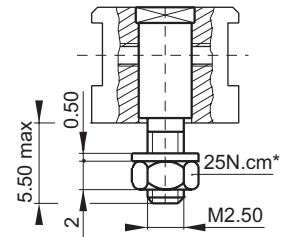
MHD 00- __ Z124 / Z134

Polarised female guide transverse mounting P/N 124: A=6; 134: A=6.60



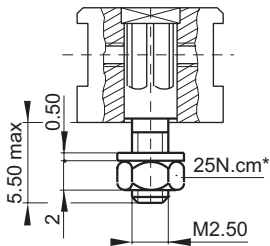
MHD 00- __ Z126

Unpolarised female guide vertical mounting



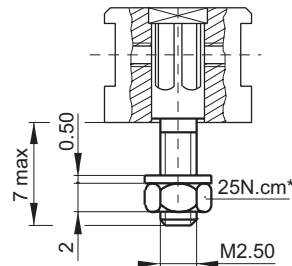
MHD 00- __ Z130

All polarity female guide vertical mounting (Length: 5.50)



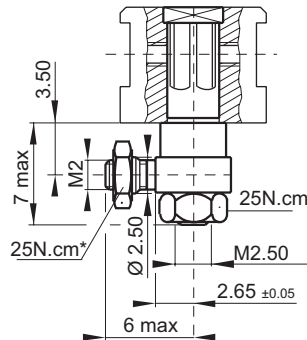
MHD 00- __ Z131

All polarity female guide vertical mounting (Length: 7)



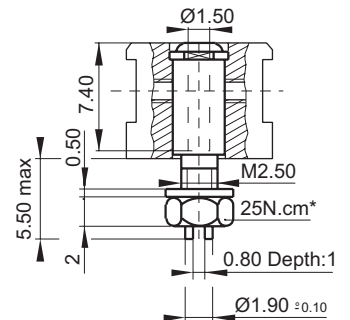
MHD 00- __ Z133

All polarity female guide transverse mounting



MHD 00- __ Z190

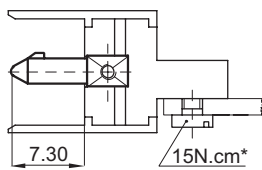
Ground female guide vertical mounting



Plug

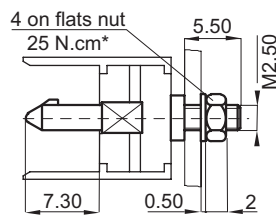
MHD 00- __ 110

Polarised male guide transverse mounting



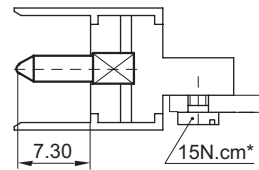
MHD 00- __ Z111

Polarised male guide vertical mounting



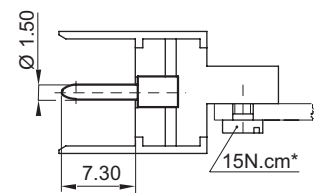
MHD 00- __ Z125

Unpolarised male guide transverse mounting



MHD 00- __ Z191

Ground male contact transverse mounting



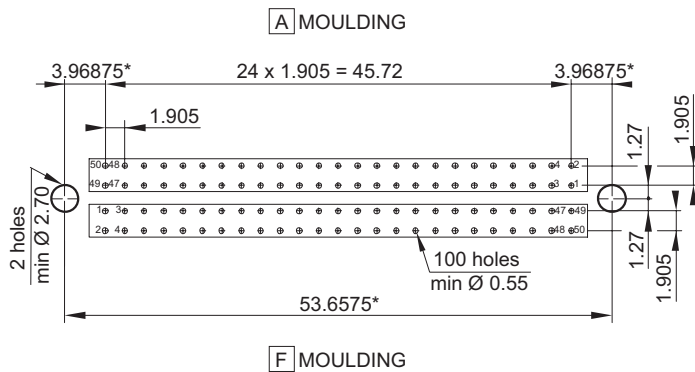
Contact Board Preparation Details

100 Contact Board Preparation Details ⁽¹⁾

Receptacle

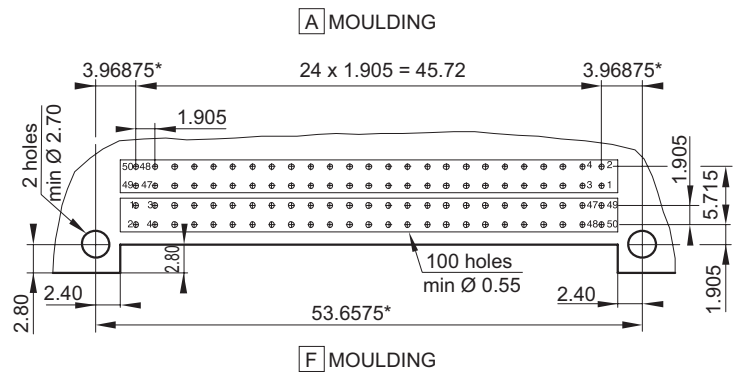
Straight termination

Guides: 121, 122, 126, 130, 131, 190



90° Termination

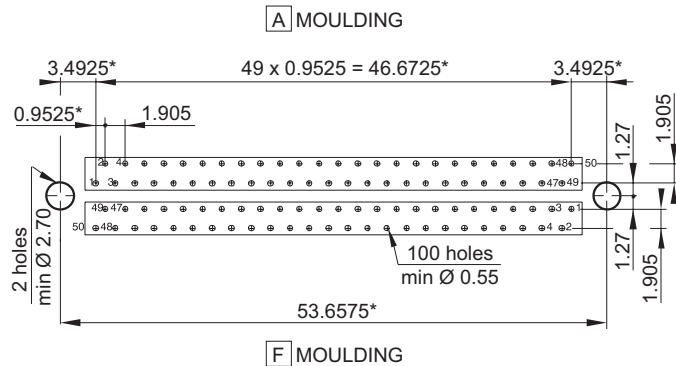
Guides: 124, 133, 134



Plug

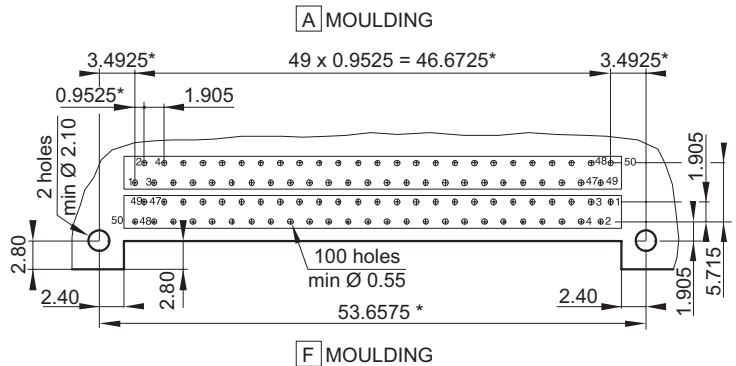
Straight termination

Guides: 111



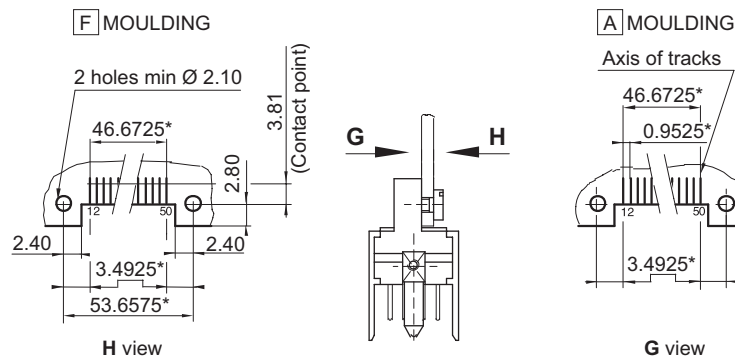
90° Termination

Guides: 110, 125, 191



Surface mount termination

Guides: 110, 125, 191



(1) Important note: See important note on 1HB preparation board details (page 17).

Technical Characteristics

Materials & Platings

Insulator	LCP Thermoplastic
Contact	Copper Alloy
Guide	Brass + Ni plating or Stainless Steel
Contact plating	Ni + Au

Environmental

Temperature range	- 55° C to +125° C
Safety of contact from extraction	Statical 2 mm / 0.079" Dynamical 1.80 mm / 0.071"
Mating cycles	5000
Withdrawal forces	≤ 0.5 N
Special contacts	According to NFC 93569

Electrical

Contact resistance	Signal ≤ 12 mΩ
Current rating	Signal 3 A
Insulation	>10 ⁴ MΩ
Voltage rating	200 V
Proof voltage	800 V
Contact diameter	Signal 0.50 mm

How To Order



M D P

1

2

3

4

5

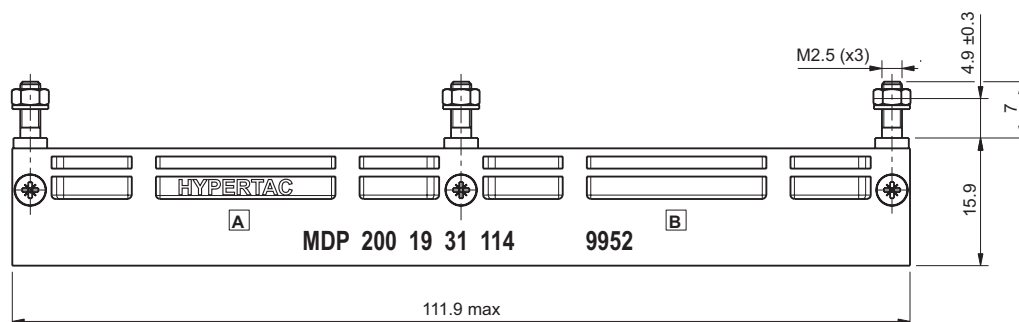
1 Series		
2 Arrangement	2 0 0	
3 Part - Polarity Plating	1 9 Male plug - MIL tinned plating	2 8 Female receptacle - MIL tinned plating
4 Termination Styles	1 0 90° termination, PCB thickness 1.60	4 4 SMT* - Uncentered PCB thickness 3.80
	3 1 Straight termination, PCB thickness 3.20	9 6 Straight termination, PCB thickness 4.50
5 Guide Styles	1 1 4 Male unpolarised, vertical mount	1 2 2 Female polarised, vertical mount
	1 2 5 Male unpolarised, transverse mount	1 3 4 Female polarised, transverse mount

* Surface Mount Termination
PCB thickness is in mm

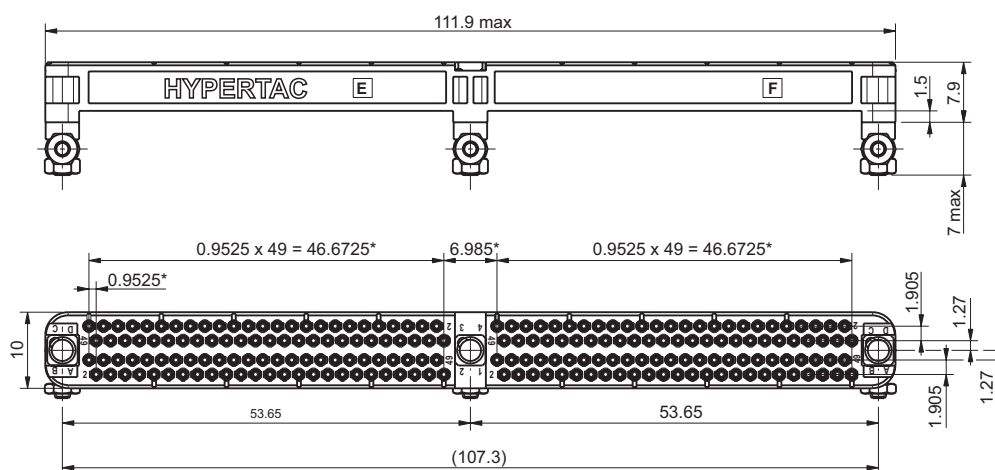
Connector Dimensions

200 Contacts

Plug



Receptacle



* Theoretical dimensions

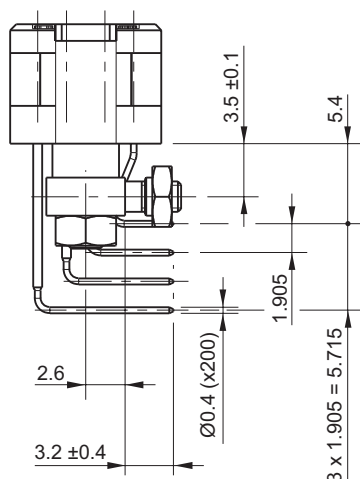
Guide and Termination Styles

Receptacle

Through board solder - 90°

Guide: 134

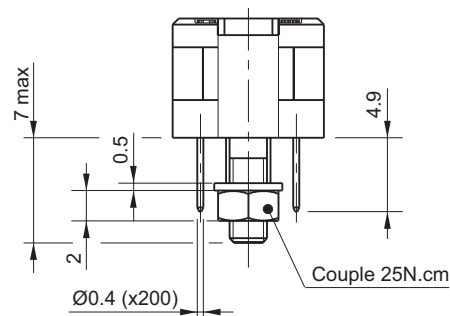
Ref: 10
PCB: 1.44 - 1.76



Through board solder - Straight

Guide: 122

Ref: 96
PCB: 3.42 - 4.18

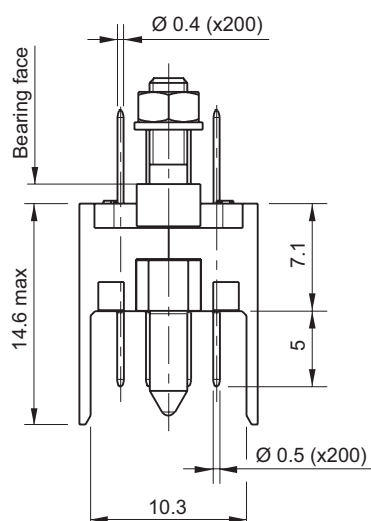


Plug

Through board solder - Straight

Guide: 114

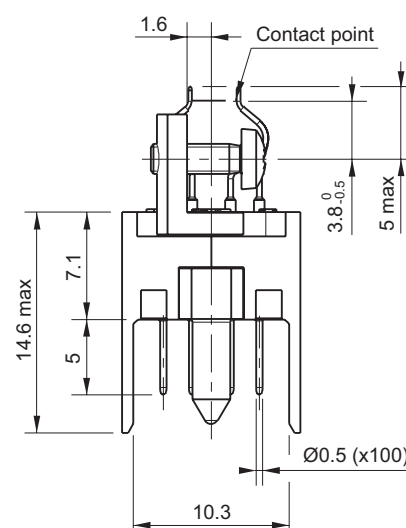
Ref: 44
PCB: 3.60 - 4.00



Surface mount (uncentered PCB)

Guide: 125

Ref: 81
PCB: 2.88 - 3.52



Note: for other guide styles requested, please contact technical support.

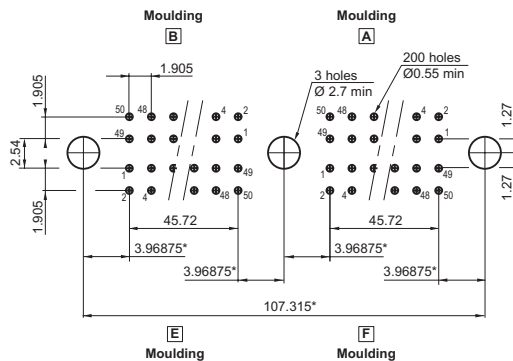
Contact Board Preparation Details

200 Contact Board Preparation Details

Receptacle

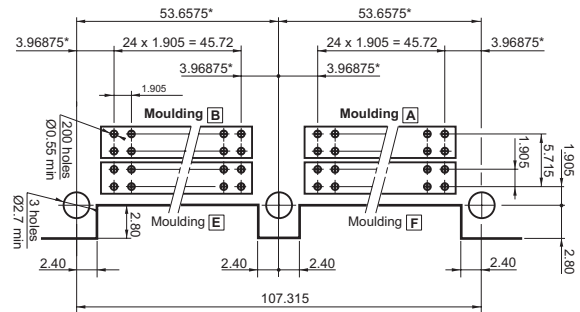
Straight termination

Guide: 122



90° Termination

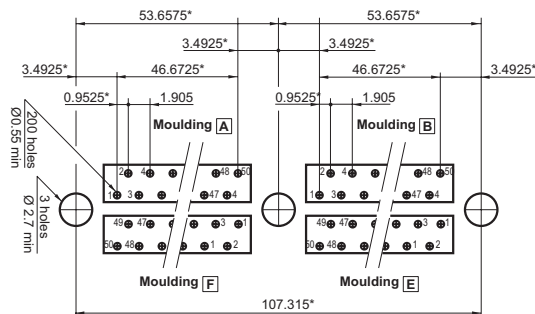
Guide: 134



Plug

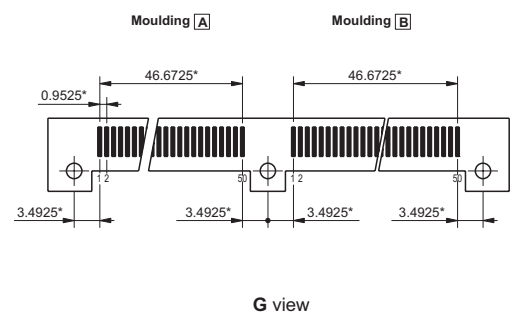
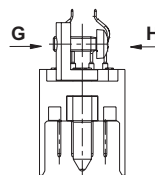
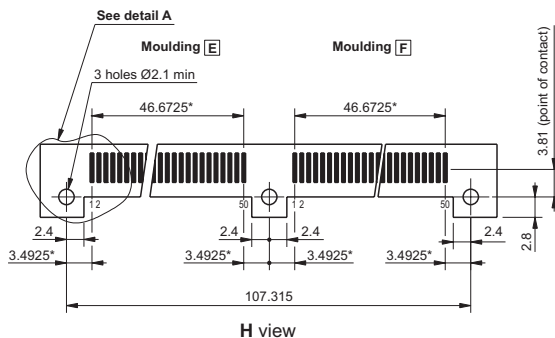
Straight termination

Guide: 114



Surface mount termination

Guide: 125



Disclaimer 2018

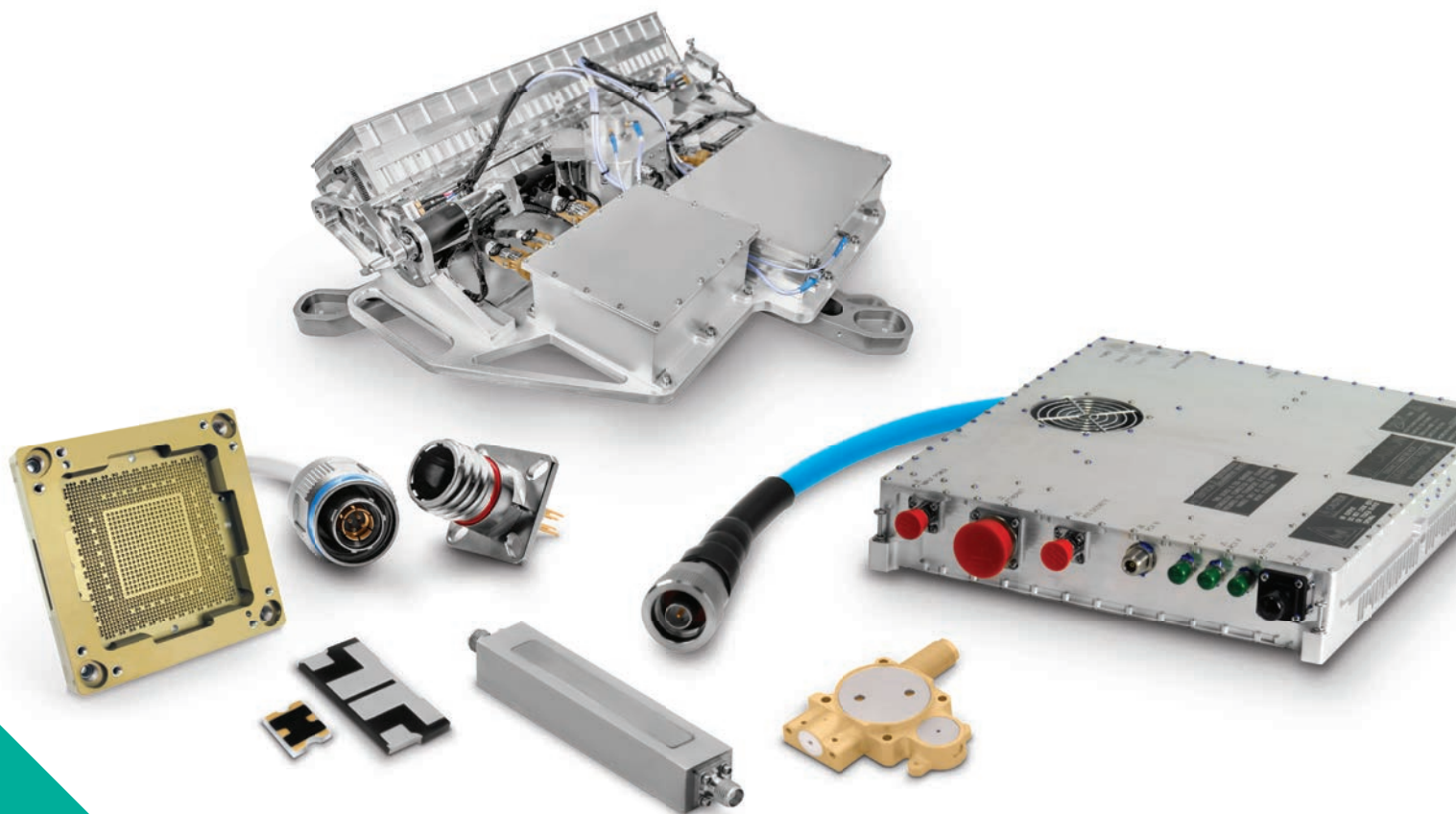
All of the information included in this catalogue is believed to be accurate at the time of printing. It is recommended, however, that users should independently evaluate the suitability of each product for their intended application and be sure that each product is properly installed, used and maintained to achieve desired results.

Smiths Interconnect makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use.

Smiths Interconnect reserves the right to modify design and specifications, in order to improve quality, keep pace with technological development or meet specific production requirements.

No reproduction or use without express permission of editorial and pictorial content, in any manner.

Product Portfolio



- Antenna Systems
- Cable Assemblies
- Connector Solutions
- Ferrite Components & Assemblies
- RF Filter Components & Assemblies
- Integrated Microwave Assemblies
- Millimeter-Wave Solutions
- RF Components
- Test Sockets and WLCSP Probe Heads
- Time & Frequency Systems

Global Support

UK Headquarters

- London, UK
+44 20 7004 1600
info.uk@smithsinterconnect.com

US Headquarters

- Stuart, FL
+1 772 286 9300
info.us@smithsinterconnect.com

Americas

- Costa Mesa, CA
+1 714 371 1100
info.us@smithsinterconnect.com
- Milpitas, CA
+1 408 957 9607 x 1125
info.us@smithsinterconnect.com
- Stuart, FL
+1 772 286 9300
info.us@smithsinterconnect.com
- Hudson, MA
+1 978 568 0451
info.us@smithsinterconnect.com
- Northampton, MA
+1 413 582 9620
info.northampton@smithsinterconnectinc.com
- Tampa, FL
+1 813 901 7200
info.tampa@smithsinterconnectinc.com
- Kansas City, KS
+1 913 342 5544
info.us@smithsinterconnect.com
- Salisbury, MD
+1 800 780 2169
info.us@smithsinterconnect.com
- Thousand Oaks, CA
+1 805 267 0100
info.thousandoaks@smithsinterconnectinc.com

Europe

- Deggendorf, Germany
+49 991 250 120
info.de@smithsinterconnect.com
- Genova, Italy
+39 0 10 60361
info.it@smithsinterconnect.com
- Dundee, UK
+44 1382 427 200
info.dundee@smithsinterconnect.com
- Rouen, France
+33 2 32 96 91 76
info.fr@smithsinterconnect.com
- Elstree, UK
+44 20 8236 2400
info.uk@smithsinterconnect.com

Asia

- Shanghai, China
+86 21 3318 4650
info.asia@smithsinterconnect.com
- Suzhou, China
+86 512 6273 1188
info.asia@smithsinterconnect.com
- Singapore
+65 6846 1655
info.asia@smithsinterconnect.com