

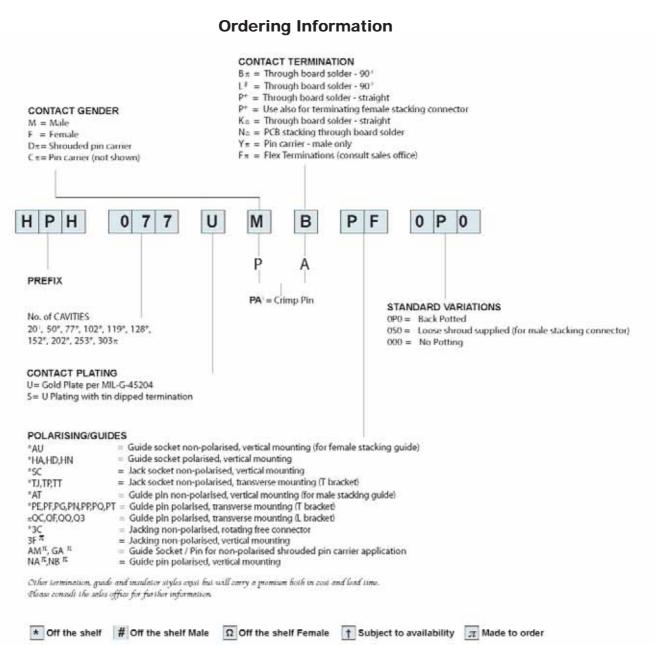


High Density Signal Connectors

- Straight TBS, R/A TBS, male crimp, Flex SMT, solder bucket, stacking, pin carrier
- Pin size/current: 0.6mm/4 amp
- Pitch: 1.905mm/0.075" on a staggered pitch of 0.953mm/0.0375
- No. of contacts: 20, 50, 77, 102, 119, 128, 152, 202, 253, 303

Markets

Mil/Aero Space, Marine, Rail and Industrial

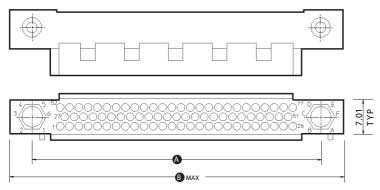


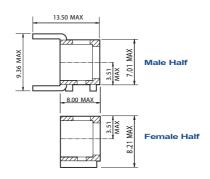
APRIL 2005 1115



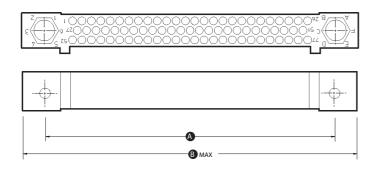
HPH insulators

3 ROW Male Half





3 ROW Female Half

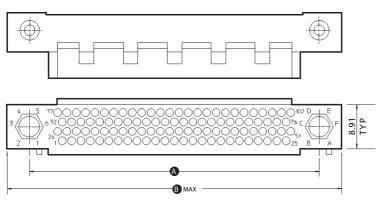


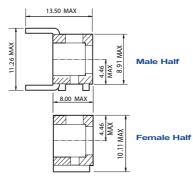
No. OF POSITIONS	20†	50*	77*	119*	152*
Dimension A	22.86 0.901"	41.91 <i>1.65"</i>	59.06 2.325"	85.73 3.375"	106.68 4.200"
Dimension B	32.18 1.267"	51.23 2.017"	68.38 2.692"	95.05 3.742"	116.50 4.586"

* Off the shelf

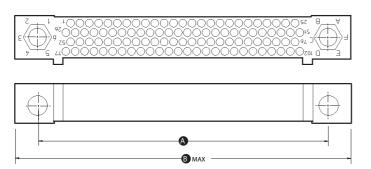
† Subject to availability

4 ROW Male Half





4 ROW Female Half



No. OF POSITIONS	102*	202*
Dimension A	59.18 2.330"	106.68 4.200"
Dimension B	68.50 2.697"	116.50 4.567"

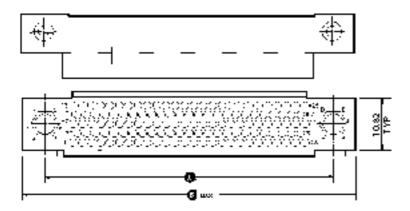
* Off the shelf

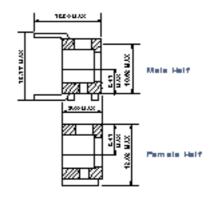
† Subject to availability



HPH insulators

5 ROW Male Half





5 ROW Female Half

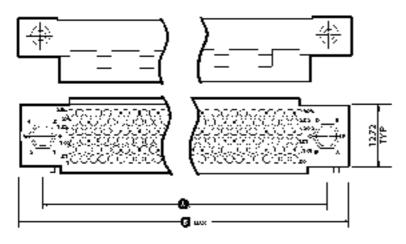
4, 6666000000000000000000000000000000000	
+	

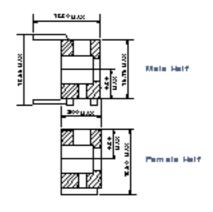
No de nasilians	69*	252*
Dimension A	99.0d 2.322	104.68 4.700
Diministra B	3.937. 481.52	114.90 4.500

★ Off the chelf

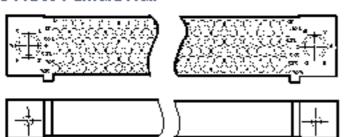
1 Subject to a valiability

6 ROW Male Half





6 ROW Female Half



No de l'assilians	202*
Dimension A	106,68 4,700°
Dimension B	776.50 4.580

★ Off the chelf

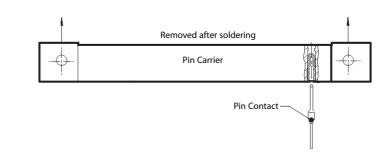
† Subject to a valiability

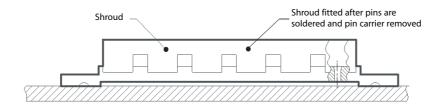


HPH insulators/Pin Carrier/guides

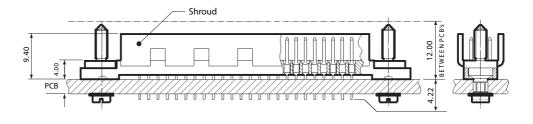
SHROUDED PIN CARRIER







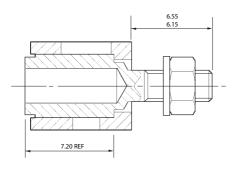
Shrouded insulator shown with pins and guides. Ready to mate with standard female connector fitted with suitable female pin carrier guides.



SHROUDED PIN CARRIER GUIDES

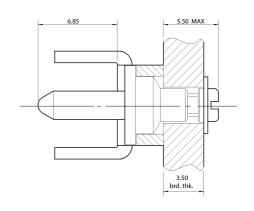
STYLE AM

Non Polarised Guide Socket Vertical Mounting



STYLE 9A

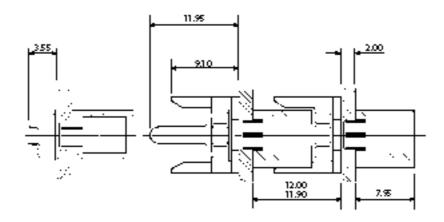
Non Polarised Guide Pin Vertical Mounting



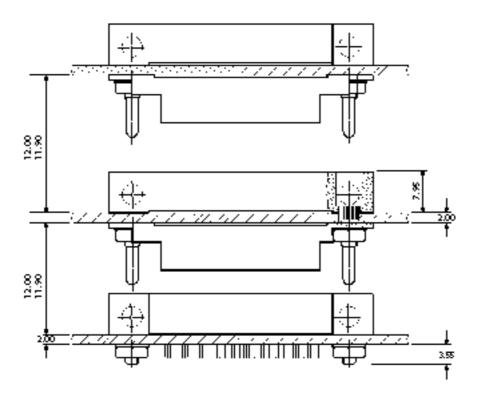


HPH stacking insulators

STACKING CONNECTOR APPLICATION



Fixed stacking height



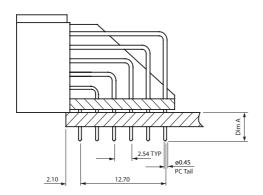
Stacking connectors are currently available in 50, 77 & 102 way only. For insulator dimensions please refer to previous pages

If you have further requirements please contact our sales offices.



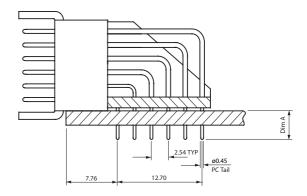
HPH standard PCB terminations

FEMALE 90° PCB



Dimensions applicable to 3, 4 and 5 row insulators also.

MALE 90° PCB

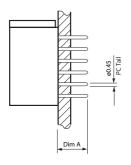


Dimensions applicable to 3, 4 and 5 row insulators also.

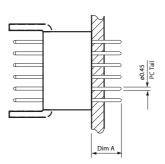
TERMINATION	Dim. A
Вπ	2.85 0.112"
L#	4.00 0.157"

st Off the shelf $\mbox{ } \mbox{ }$

FEMALE VERTICAL PCB



MALE VERTICAL PCB



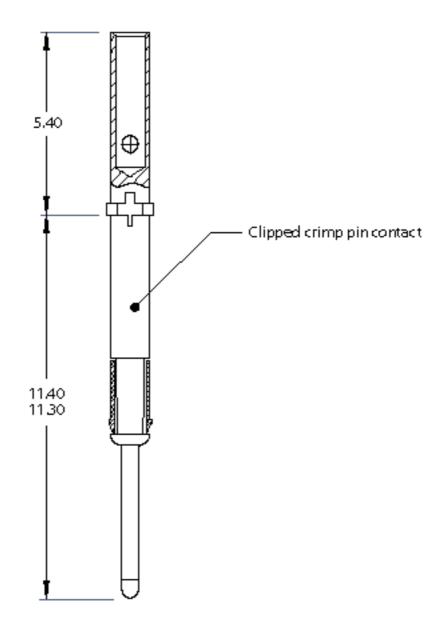
TERMINATION	Dim. A
P*	4.50 0.117"
ΚΩ	6.70 0.246"

 $m{*}$ Off the shelf $\mbox{ } \mbox{ } \mbox{$



HPH cable terminations

MALE CRIMP CONTACT (26 - 22 AWG)



Consult our sales offices for tooling requirements



HPH standard guides male/female

FEMALE GUIDE INDEX

Style AU	Stacking	Non-polarised;	Vertical mounting;	1/10
Style HA		Polarised;	Vertical mounting;	1/10
Style HD		Polarised;	Vertical mounting;	1/10
Style HN		Polarised;	Vertical mounting;	1/10
Style SC	Jack socket;	Non-polarised;	Vertical mounting;	1/10
Style TJ	T-Jack socket;	Non-polarised;	Transverse mounting;	1/10
Style TP	T-Jack socket;	Non-polarised;	Transverse mounting;	1/10
Style TT	T-Jack socket;	Non-polarised;	Transverse mounting;	1/10

MALE GUIDE INDEX

Style AT	Stacking;	Non-polarised;	Vertical mounting;	1/11
Style PE	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PF	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PG	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PN	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PP	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PQ	T-bracket;	Polarised;	Transverse mounting;	1/11
Style PT	T-bracket;	Polarised;	Transverse mounting;	1/11
Style QC	L-bracket;	Polarised;	Transverse mounting;	1/11
Style QF	L-bracket;	Polarised;	Transverse mounting;	1/11
Style QQ	L-bracket;	Polarised;	Transverse mounting;	1/11
Style Q3	L-bracket;	Polarised;	Transverse mounting;	1/11
Style 3C	Jacking;	Non-polarised;	Rotating free connector;	1/11
Style 3F	Jacking;	Non-polarised;	Vertical mounting;	1/12
Style NA		Polarised;	Vertical mounting;	1/12
Style NB		Polarised;	Vertical mounting;	1/12

MALE GUIDES

		AT	PE	PF	PG	PN	PP	PQ	PT	QC	QF	QQ	Q3	3C	3F	NA	NB
	AU																
	НА																
FEMALE	HD																
Ε																	
	HN																
GUIDES	SC																
ES	TJ																
	TP																
	TT																
	11																

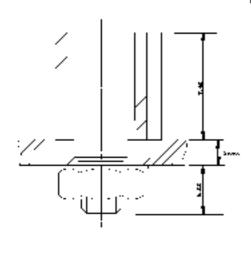
Note: For pin carrier guides please refer to: HPH Insulators / Pin Carrier /Guides



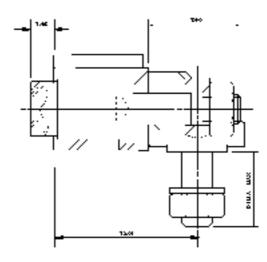
HPH standard guides female

Style AU

Non Polarised Vertical Mounting Stacking



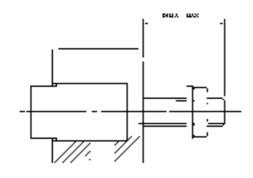
Style T Jack SocketNon Polarised Transverse Mounting T Bracket



Style Silver	2	
Styles 4 16cA		Ξ
Styles dilition		Ξ
Board thicknesss	244 0.000	9 25 1.
Dim A nex	4.74 4.774	0349. 934

Above guides can also be used for male connectors

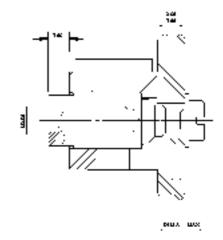
Style H Polarised Vertical Mounting



Style	Board Thickness	Dini Antac
на	2.54 4.00	6.55 C
HD	7.72. 7.72.	720 4.793
HN	4.00 0.75 (*)	0.324. 830

Style SC

Jack Socket Non Polarised Vertical Mounting



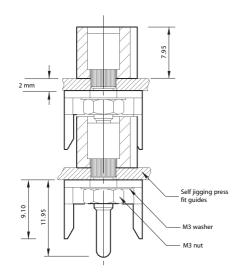
98y4a	Board Thicknesse	Dini Annas	
30	2.50	4.90 0.7 8 91	

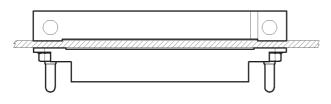


HPH standard guides male

Style AT

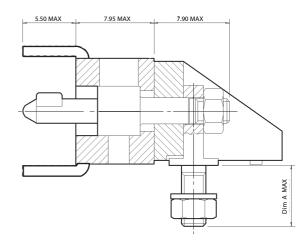
Non Polarised Vertical Mounting Stacking





Style P

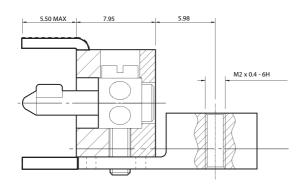
Polarised Transverse Mounting (showing 5 row style)



STYLE	No. of Rows	Board Thickness	Dim. A max.
PE/PF/PG	3/4/5	2.00 0.078"	5.10 0.200"
PN/PP/PQ	3/4/5	3.20 0.125"	6.30 0.248"
PT	6	2.60 0.102"	5.70 0.224

Style Q

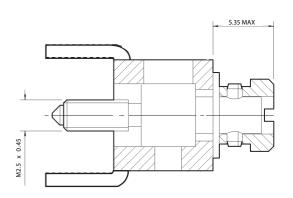
Polarised Transverse Mounting L Bracket



Sty 3 Ro		Style 4 Row	Style 5 Row	Style 6 Row	Board Thickness
C	C	QF	QQ		2.54 0.100"
				Q3	3.20 0.393"

Style 3C

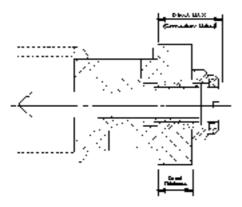
Jacking Guide Non-polarised Rotating Free Connector





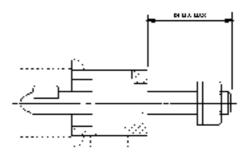
HPH standard guides male

Style 3F Jacking Guide Non-polarised Vertical Mounting



*	Styles -	Board Thickmass	Dini A near	
	SF	294-345 47/8-47/38	0.348°	

Style N Polarised Vertical Mounting



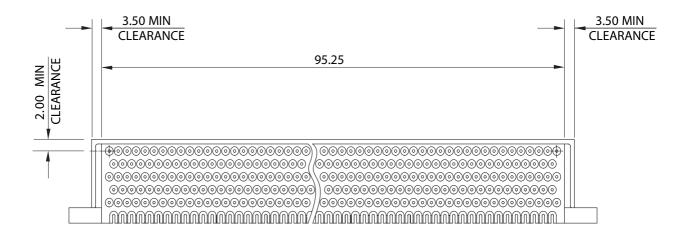
Style	Board Thickness	Dini A ntac	
NA	2.54 a. 60a°	0.779. 4.41	
NH	0.300. 1719	6774. 800	



HPH PCB preparation details

Important: Please allow the following clearance dimensions around all 90° PCB layout configurations to accommodate the alignment comb shown below.

PCB 90° ALIGNMENT COMB DETAILS

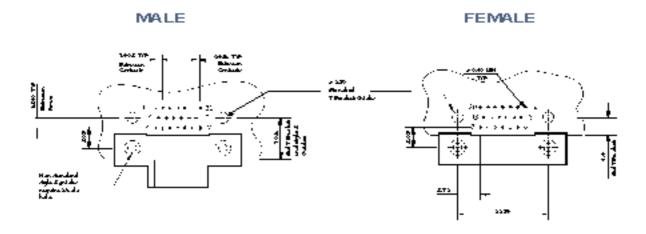


303 way showing typical clearance dimensions (applies to all 90° styles).

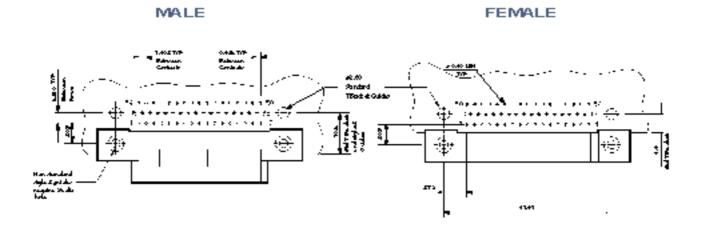


HPH PCB standard 90° preparations details

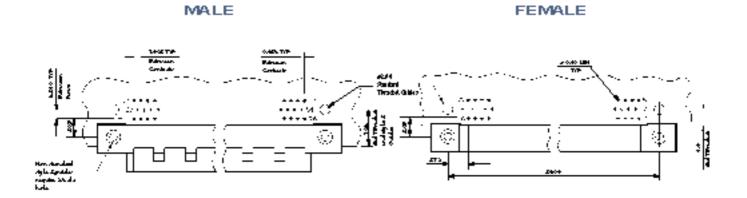
20 WAY 90° PCB LAYOUT



50 WAY 90° PCB LAYOUT



77 WAY 90° PCB LAYOUT



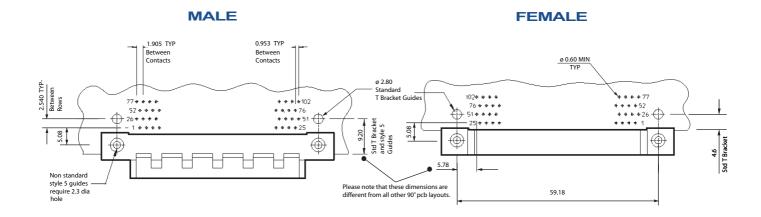
Dimensions are in mm

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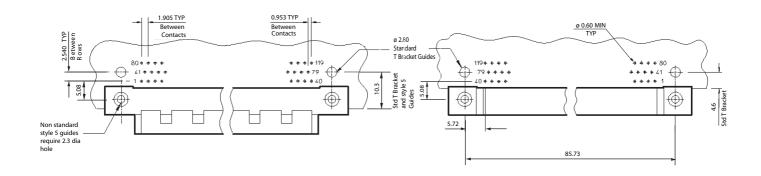
HPH PCB standard 90° preparations details

102 WAY 90° PCB LAYOUT

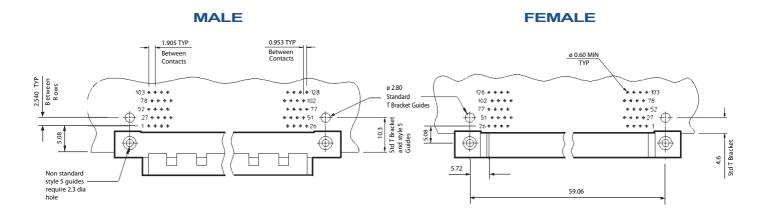


119 WAY 90° PCB LAYOUT

MALE FEMALE



128 WAY 90° PCB LAYOUT

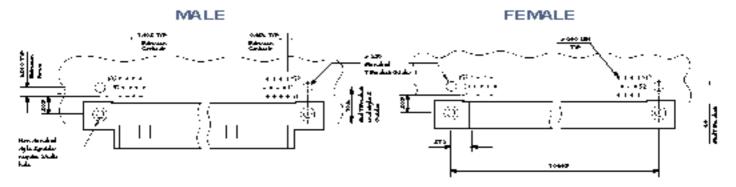


Dimensions are in mm



HPH PCB standard 90° preparations details

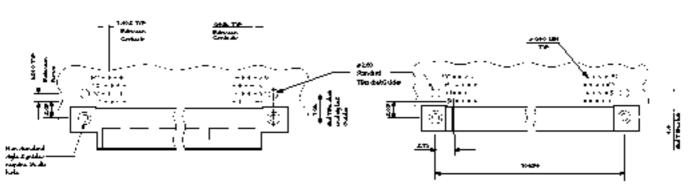
152 WAY 90° PCB LAYOUT



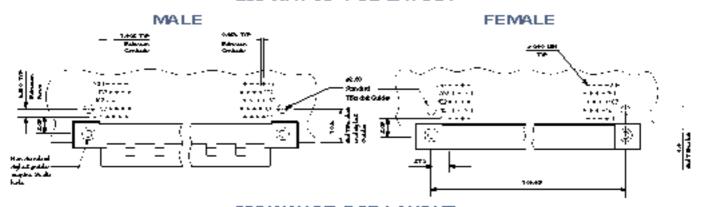
202 WAY 90° PCB LAYOUT

FEMALE

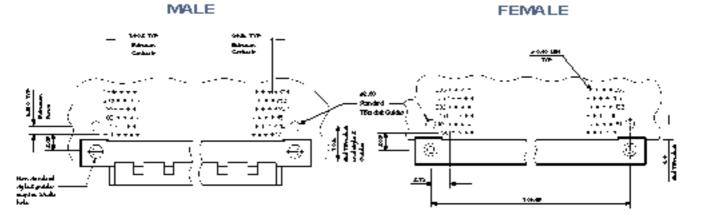
MALE



253 WAY 90° PCB LAYOUT



303 WAY 90" PCB LAYOUT





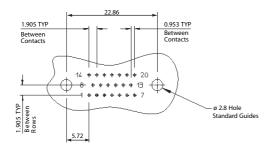
HPH PCB standard vertical preparations details

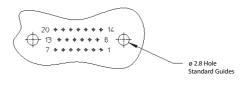
NOTE: VERTICAL GUIDE CENTRES ALIGN WITH THE CENTRE OF THE PCB CONTACT LAYOUT.

20 WAY VERTICAL PCB

LAYOUT MALE

LAYOUT FEMALE

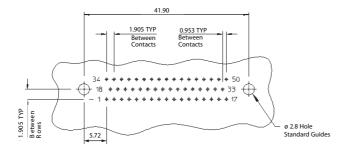


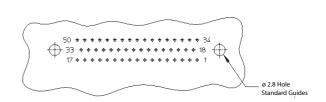


50 WAY VERTICAL PCB

LAYOUT MALE

LAYOUT FEMALE

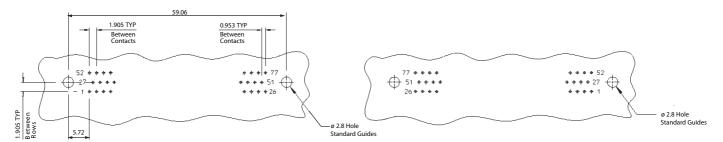




77 WAY VERTICAL PCB

LAYOUT MALE

LAYOUT FEMALE



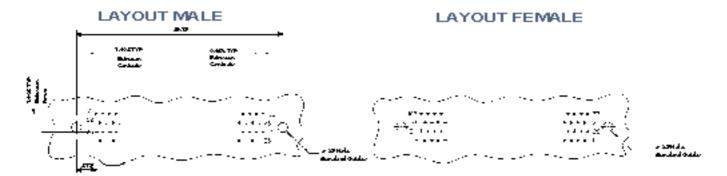
Dimensions are in mm



HPH PCB standard vertical preparations details

NOTE: VERTICAL GUIDE CENTRES ALIGN WITH THE CENTRE OF THE POB CONTACT LAYOUT.

102 WAY VERTICAL PCB



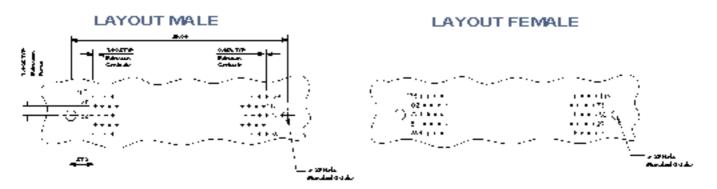
119 WAY VERTICAL PCB

LAYOUT MALE

LAYOUT FEMALE



128 WAY VERTICAL PCB





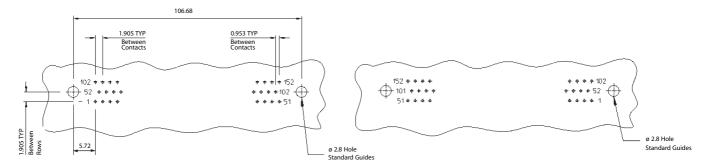
HPH PCB standard vertical preparations details

NOTE: VERTICAL GUIDE CENTRES ALIGN WITH THE CENTRE OF THE PCB CONTACT LAYOUT.

152 WAY VERTICAL PCB

LAYOUT MALE

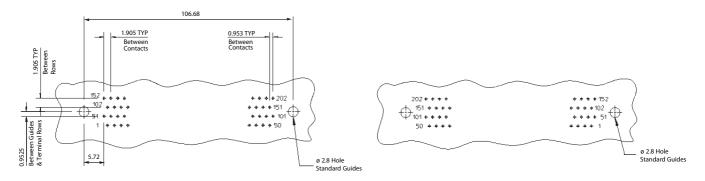
LAYOUT FEMALE



202 WAY VERTICAL PCB

LAYOUT MALE

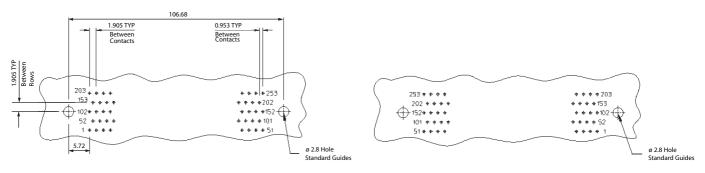
LAYOUT FEMALE



253 WAY VERTICAL PCB

LAYOUT MALE

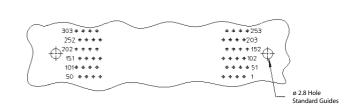
LAYOUT FEMALE



303 WAY VERTICAL PCB

LAYOUT MALE 106.68 1.905 TYP 0.953 TYP Between Between Contacts .905 TYP Between Rows 152_{+ + + +} + + + + 151 + + + + 101 0.9525 Between Guides & Terminal Rows 51 + + + + 4 4 4 4 50 5.72 ø 2.8 Hole Standard Guides

LAYOUT FEMALE



Dimensions are in mm



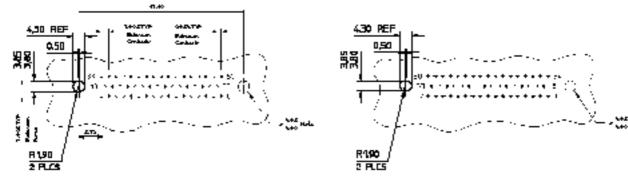
HPH PCB stacking preparations details

NOTE: STAICKING GUIDE CENTRES ALIGN WITH THE CENTRE OF THE POBICONTACT LAYOUT.

50 WAY VERTICAL PCB

LAYOUT VIEWED FROM MALE SIDE

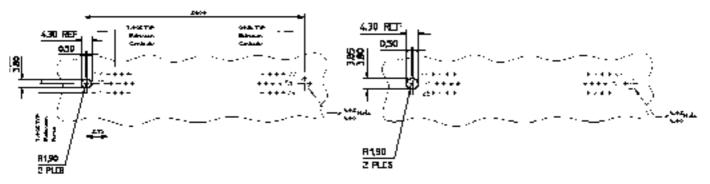
LAYOUT VIEWED FROM FEMALE SIDE



77 WAY VERTICAL PCB

LAYOUT VIEWED FROM MALE SIDE

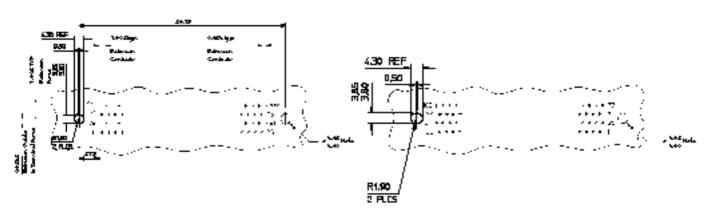
LAYOUT VIEWED FROM FEMALE SIDE



102 WAY VERTICAL PCB

LAYOUT VIEWED FROM MALE SIDE

LAYOUT VIEWED FROM FEMALE SIDE



Stacking connectors are currently only available in 50, 77 & 102 ways.

If you have further requirements please contact our local sales offices.