

SUGGESTED PCB HOLE SIZE DIMENSIONS FOR CompactPCI POWER CONNECTORS WITH PRESS FIT TERMINATIONS			
ACCORDING IEC 60352-5			
THROUGH HOLE PLATING		Signal Contact	Power Contact
	NOMINAL DIAMETER	1,0 mm	1,6mm
TIN-LEAD	DRILLED HOLE	1,15 ±0,025 mm	1,75 ±0,025 mm
	COPPER	min. 25µm	min. 25µm
	TIN-LEAD	min. 15µm	min. 15µm
	FINISHED HOLE	1,0 +0,09 –0,06mm	1,6 +0,09 –0,06mm
Galv./HAL TIN	DRILLED HOLE	1,15 ±0,025 mm	1,75 ±0,025 mm
	COPPER	min. 25µm	min. 25µm
	TIN	5-15µm	5-15µm
	FINISHED HOLE	1,0 +0,09 –0,06mm	1,6 +0,09 –0,06mm
CHEM. TIN	DRILLED HOLE	1,15 ±0,025 mm	1,75 ±0,025 mm
	COPPER	min. 25µm	min. 25µm
	CHEM. TIN	max. 1,5µm	max. 1,5µm
	FINISHED HOLE	1,0 +0,09 –0,06mm	1,6 +0,09 –0,06mm

Connector Technical Data

Material and Finishes

Insulator glass filled plastic, UL 94V-0 Contacts Materials high precision UL machined copper alloy Plating gold flash over nickel / 30 micro inch, gold over nickel (pressfit termination tin over nickel)

Electrical Characteristics

Contact Current Ratings, per UL 1977,

(see temperature rise curve for details) **CPH 38** Size 16 Power Contacts: Positions 36, 37 and 38 40 A continuous, all contacts under load Positions 1-20 28 A continuous, all contacts under load Size 20 Signal Contacts 3 A nominal rating **CPH 47**

Size 16 power contacts: Positions 45, 46 and 47 40 A continuous, all contacts under load Positions 1-20 28 A continuous, all contacts under load Size 22 signal contacts 3 A nominal rating **Initial contact resistance (termination to termination)**

Size 16 power contacts 0.0007 Ω maximum Size 20 signal contacts 0.004 Ω maximum Size 22 signal contacts 0.004 Ω

maximum Insulation Resistance 5 G Ω per IEC 512-2 Test 3a **Voltage Proof CPH 38** Contacts 36, 37 and 38 3000 V r.m.s.

Contacts 1 through 20 1500 V r.m.s. Contacts 21 through 35 1000 V r.m.s. **CPH 47** Size 16 power contacts: Contacts 45, 46 and 47 3000 V r.m.s. Contacts 1 through 20 1500 V r.m.s. Contacts 21 through 44 1000 V r.m.s. **Creepage and clearance**

distance (minimum) CPH 38 Contact 38 to 36 3.2 mm Contact 37 to contact 36 3.2 mm Contact 38 to signal contacts 6.4 mm

Contact 37 to signal contacts 6.4 mm Contact 38 to contact 37 2.5 mm Contact 36 to signal contacts 2.0 mm **CPH 47** Contact 47

to contact 45 3.2 mm Contact 46 to contact 45 3.2 mm Contact 47 to signal contacts 6.4 mm Contact 46 to signal contacts 6.4

mm Contact 47 to contact 46 2.5 mm Contact 45 to signal contacts 2.0 mm **Working voltage CPH 38** Contacts 36, 37 and 38

1000 V r.m.s. Contacts 1 through 20 500 V r.m.s. Contacts 21 through 35 333 V r.m.s. **CPH 47** Contacts 45, 46 and 47 1000 V r.m.s. Contacts 1 through 20 500 V r.m.s. Contacts 21 through 44 333 V r.m.s.

Mechanical Characteristics

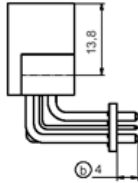
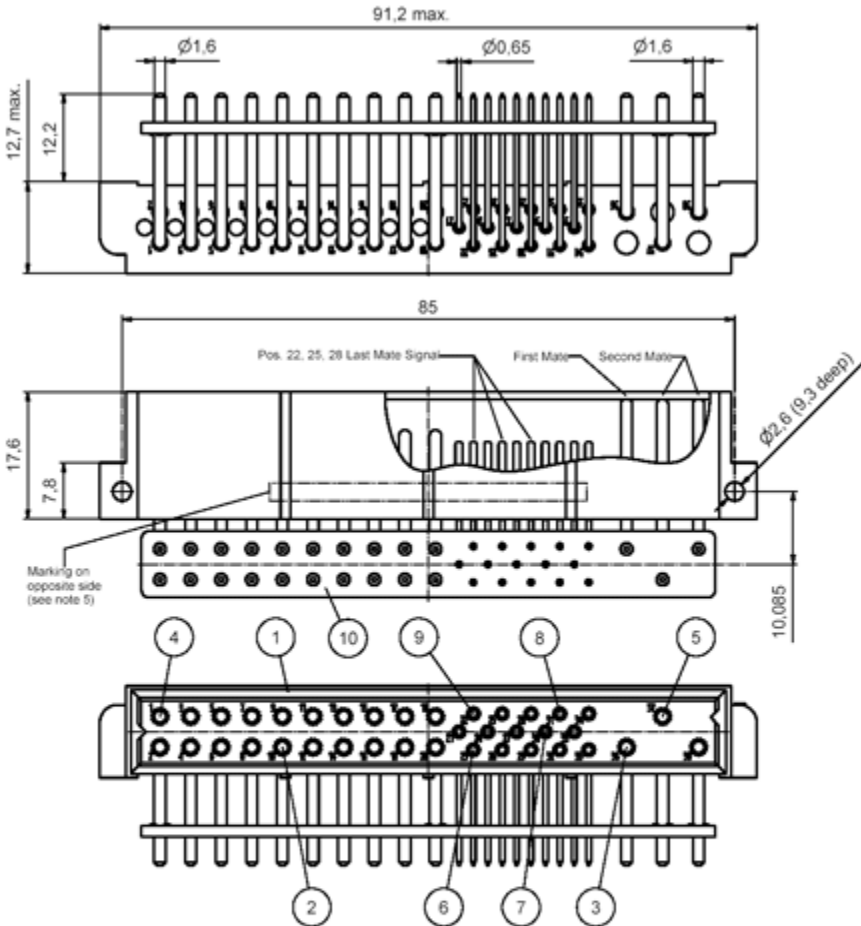
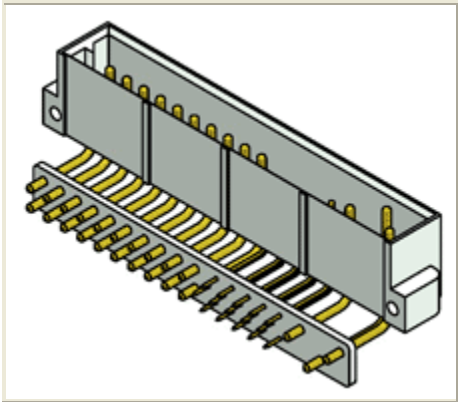
Blind mating system male and female connector bodies provide “lead-in” for 1.3 mm diametral misalignment Polarization provided by connector body design Crimp contacts install contact from termination side; release from mating side **Removable contact retention in connector body** Size 16 contacts 67 N **Fixed contact retention in connector body** Size 16 contacts 45 N Size 20 and 22 contacts 27 N Resistance to solder heat 260°C for 10 seconds duration per IEC 512-6, Test 12e, 25-watt soldering iron

for other application contact factory **Sequential contact mating system** **CPH 38** first mate contact 36 and last mate contact positions 22, 25, and 28 **CPH 47** first mate contact 45 and last mate contact position 27 Safety recessed in insulator contacts following size 16 contacts are recessed 5mm below the face of the female insulator for safety requirements **CPH 38** contact positions 37 and 38 **CPH 47** contact positions 46 and 47 Compliant terminations size 16, 20 and 22 contacts are available with compliant contact terminations Printed board and panel mounting mounting holes provided in connector body for both printed board and panel mounting self-tapping screws are available Mechanical operations 250 cycles

Climatic Characteristics

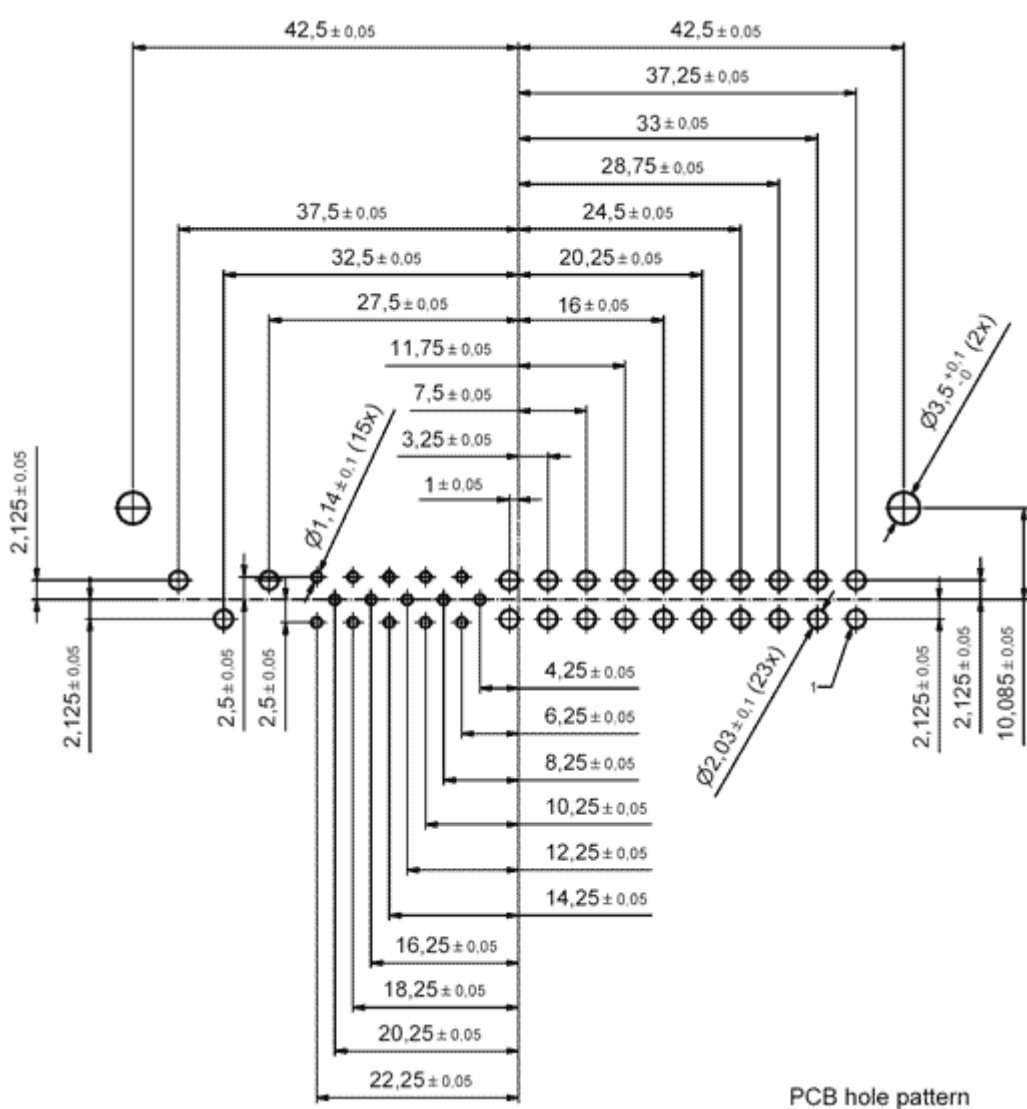
Working temperature -55°C to +125°C

**CompactPCI
Male Connector 38 pos.
solder pin angled**

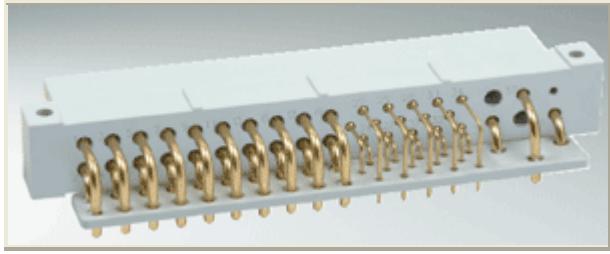


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1	Fixing plate	10
3	Signal contact type 4 (Pos. 22, 25, 28)	9
2	Signal contact type 3 (Pos. 31, 34)	8
5	Signal contact type 2 (Pos. 21, 24, 27, 30, 33)	7
5	Signal contact type 1 (Pos. 23, 26, 29, 32, 35)	6
1	Power contact type 4 (Pos. 37)	5
10	Power contact type 3 (Pos. 1, 3, 5, 7, 9, 11, 13, 15, 17, 19)	4
2	Power contact type 2 (Pos. 36, 38)	3
10	Power contact type 1 (Pos. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20)	2
1	Case 38pos. male angled standard	1
quantity	part description	item



PCB hole pattern

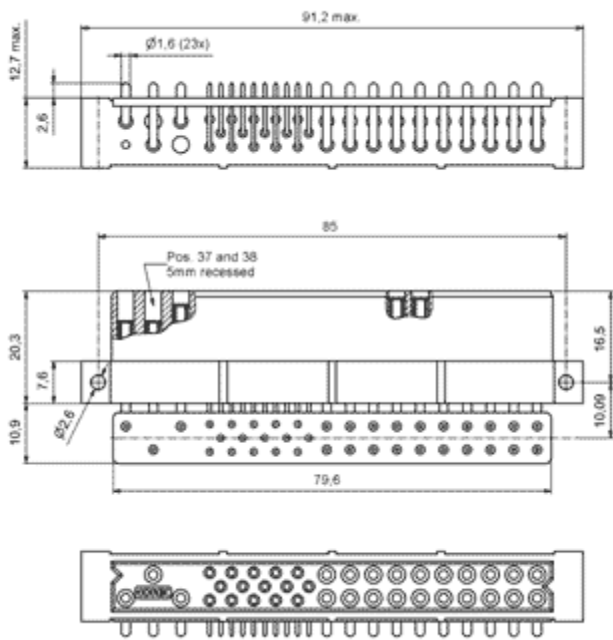


CompactPCI Female Connector

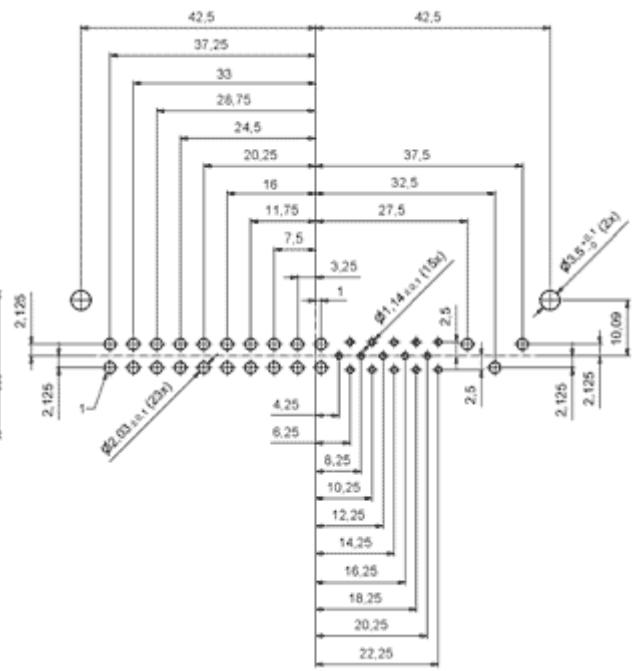
38-position
Solder pin angled
Standard

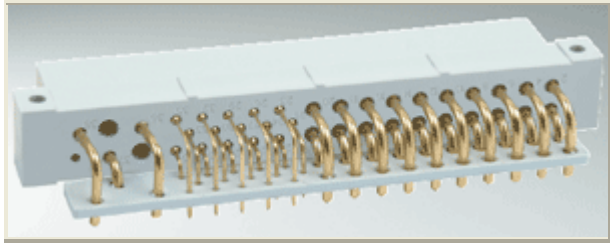
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



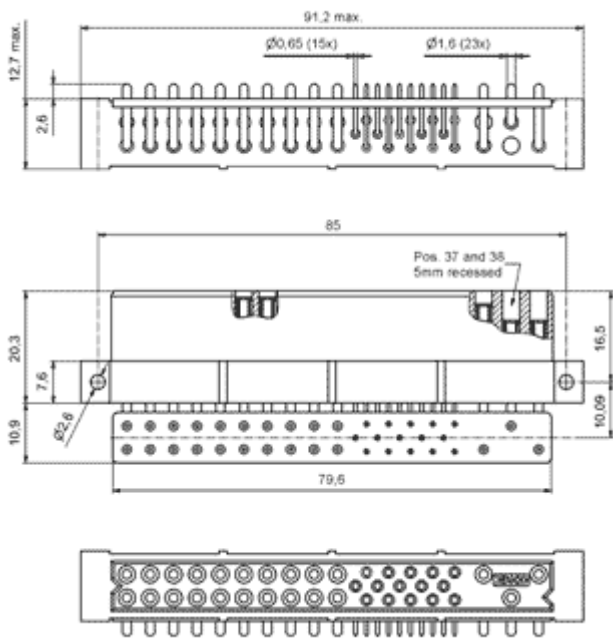


CompactPCI Female Connector

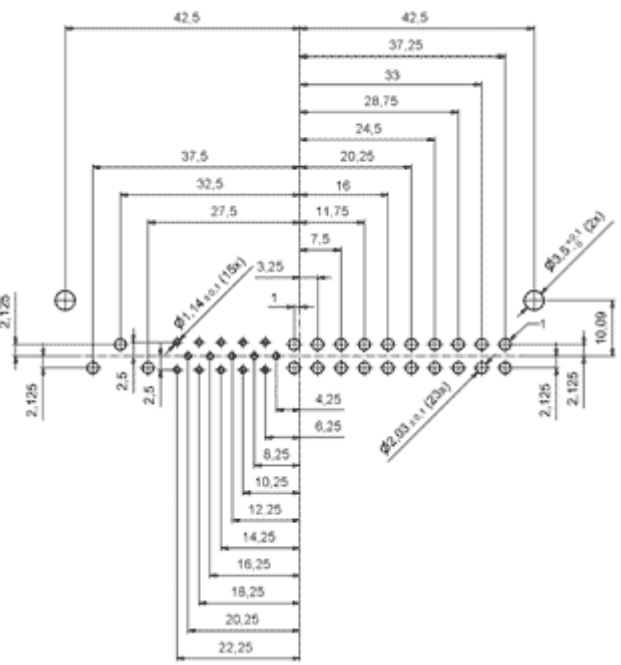
38-position
Solder pin angled
Inverted

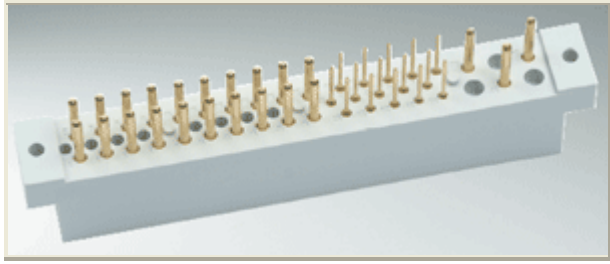
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



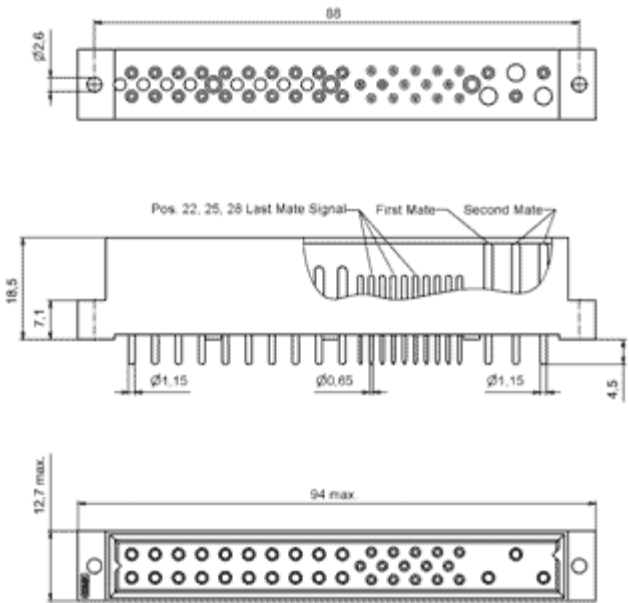


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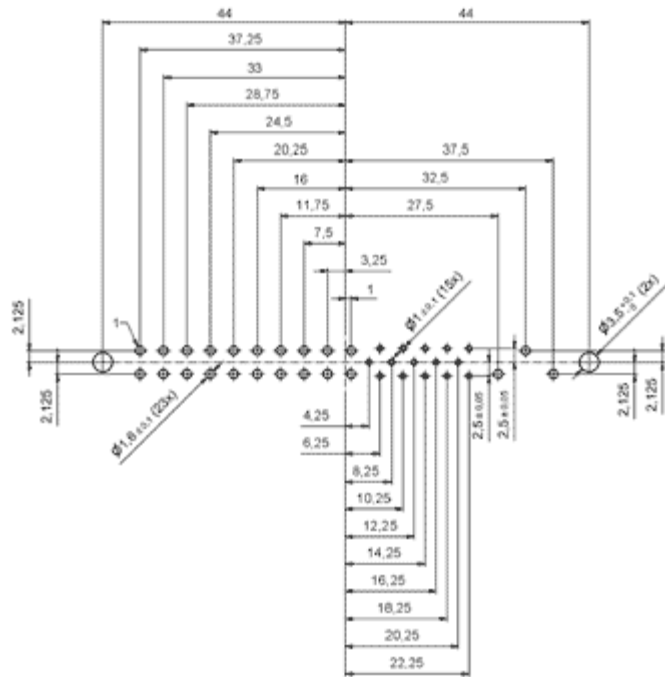
38-position
Solder pin straight
Standard

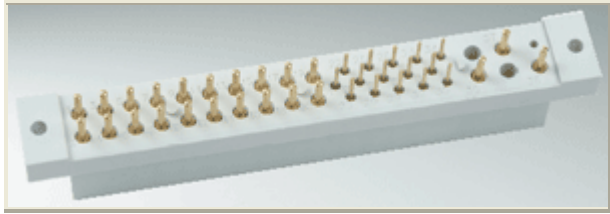
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



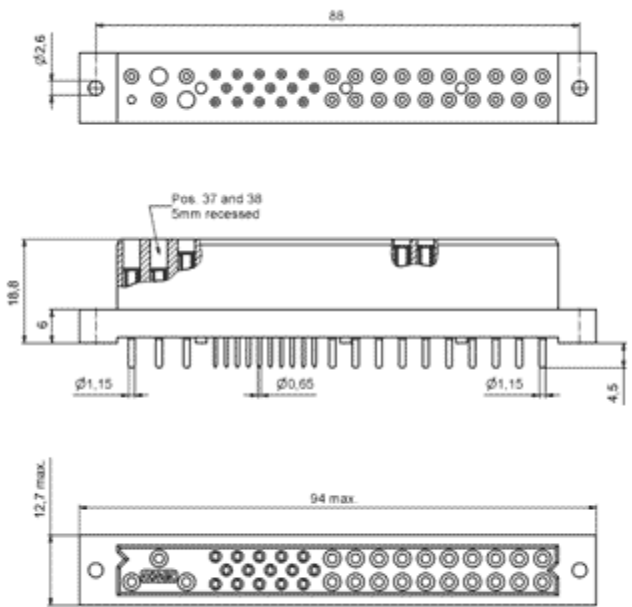


CompactPCI Female Connector

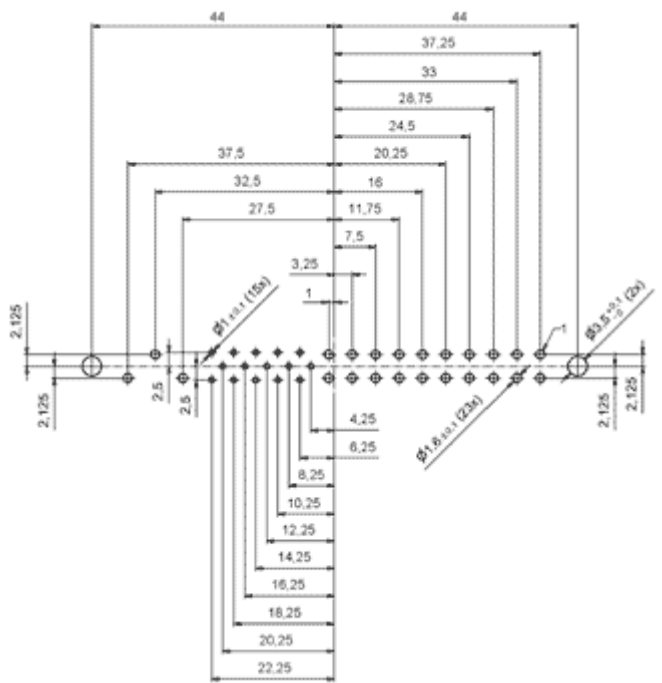
38-position
Solder pin straight
Standard

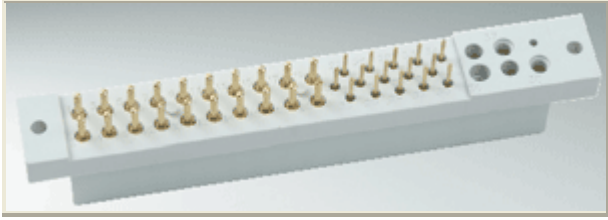
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



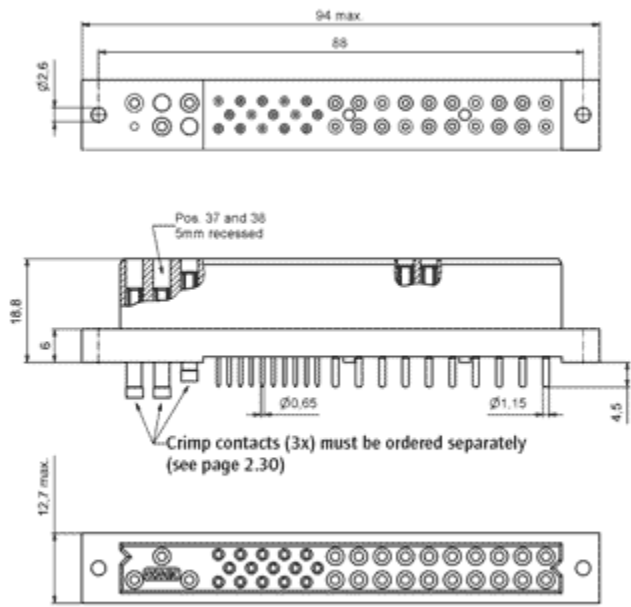


CompactPCI Female Connector

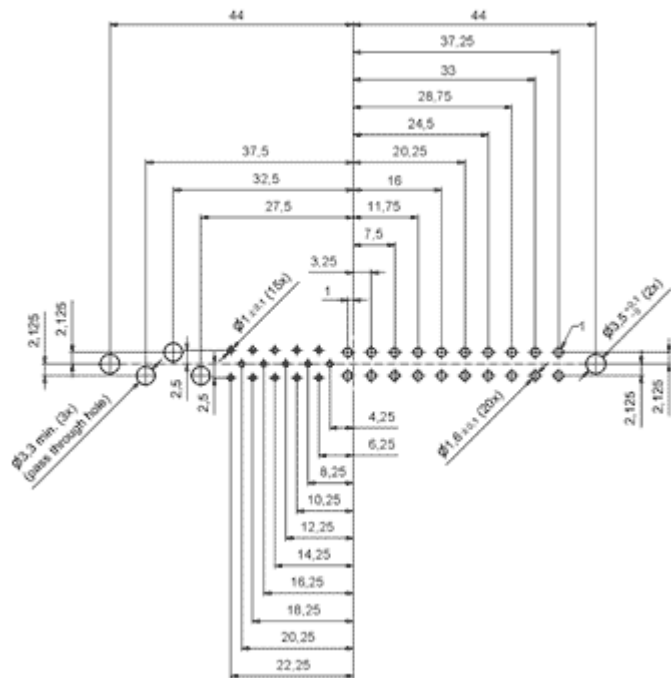
38-position partial loaded
For crimp contacts on Pos. 36 - 38
Solder pin straight
Low profile

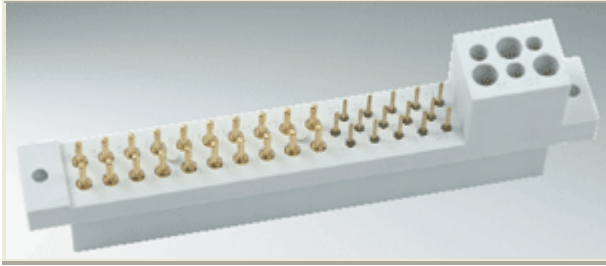
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



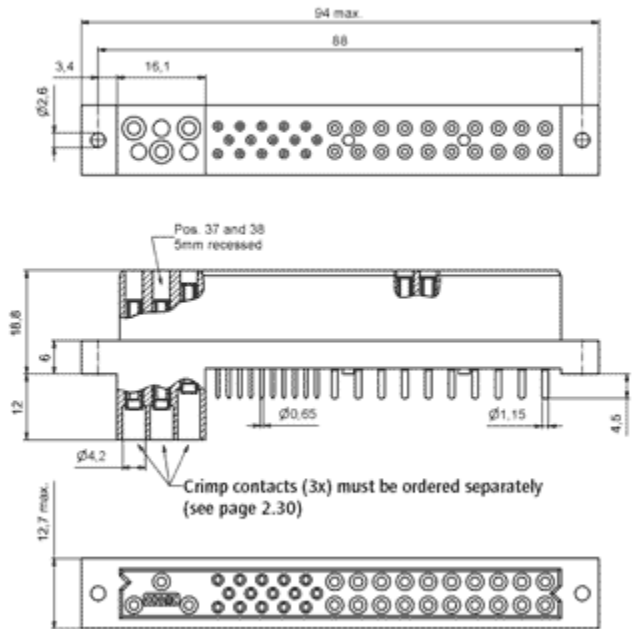


CompactPCI Female Connector

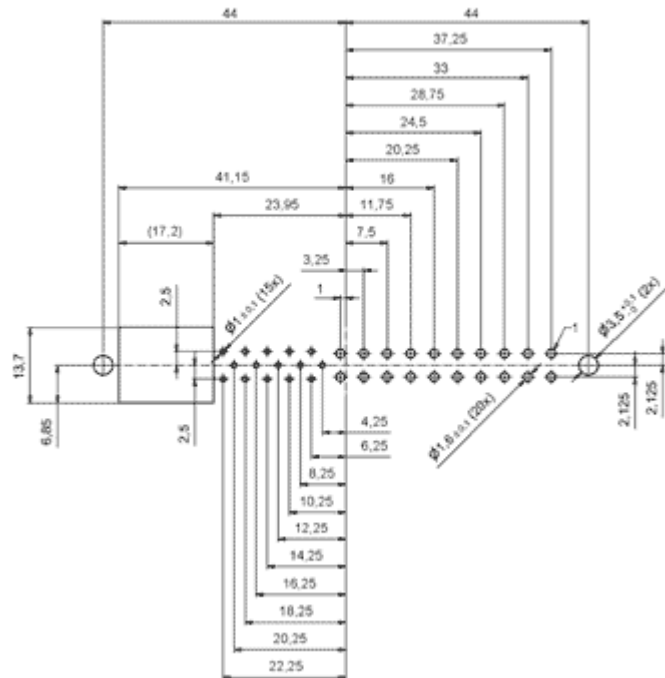
38-position partial loaded
For crimp contacts on Pos. 36 - 38
Solder pin straight
High profile

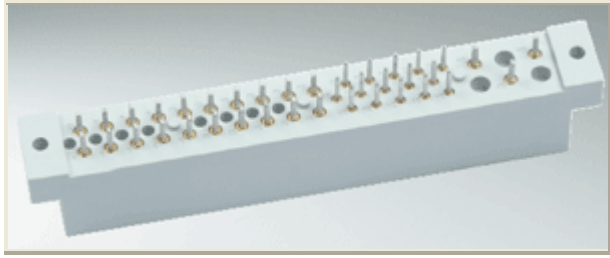
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



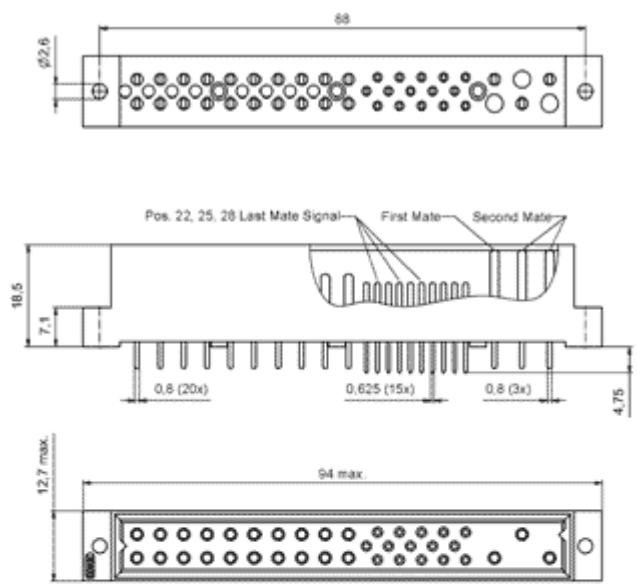


CompactPCI Male Connector

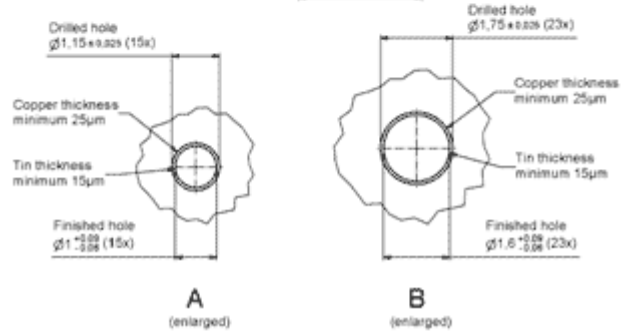
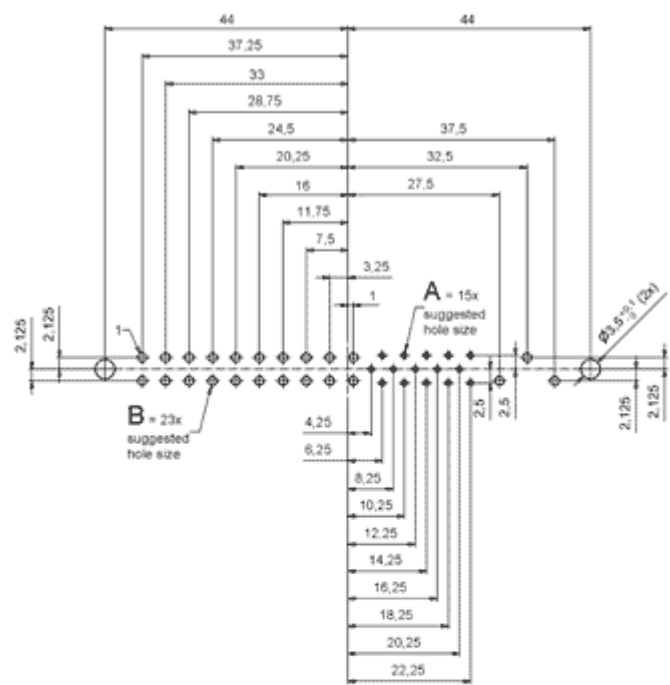
38-position
Press-Fit straight
Standard

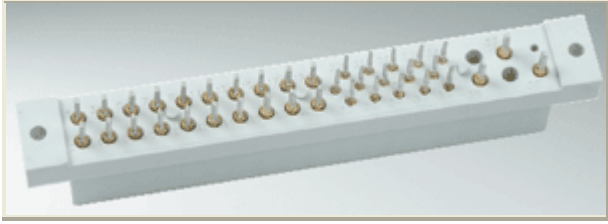
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



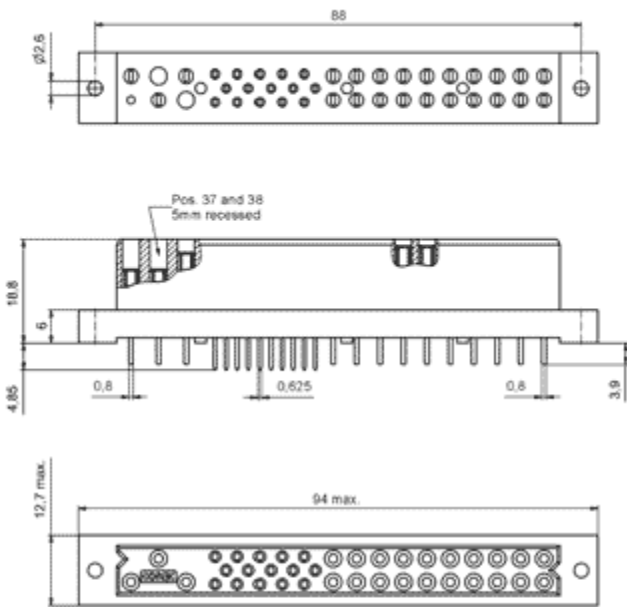


CompactPCI Female Connector

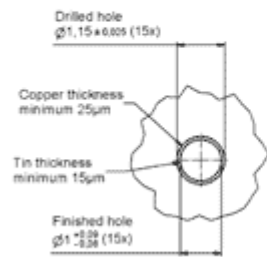
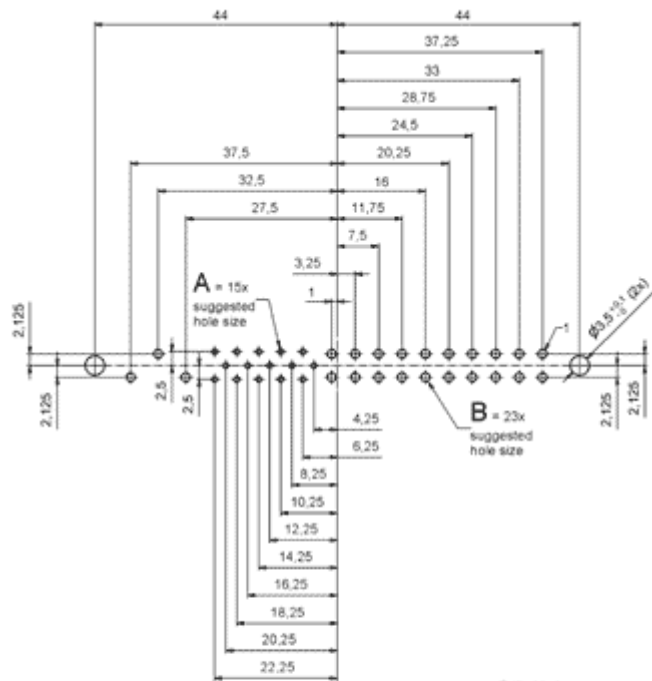
38-position
Press-Fit straight
Standard

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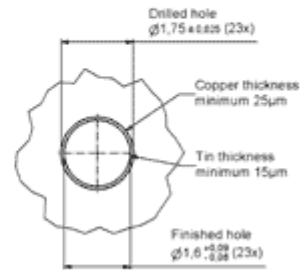
CONNECTOR DIMENSIONS



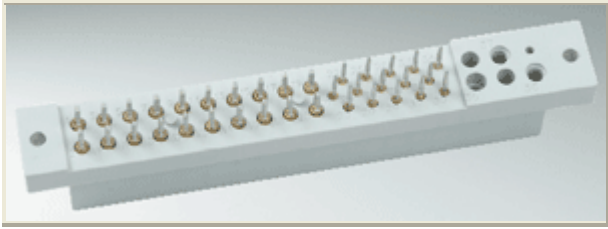
PCB-HOLE PATTERN



A
(enlarged)



B
(enlarged)

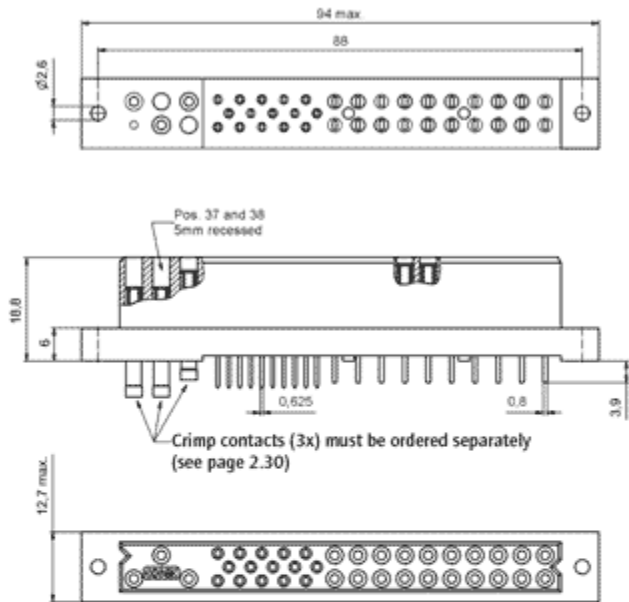


CompactPCI Female Connector

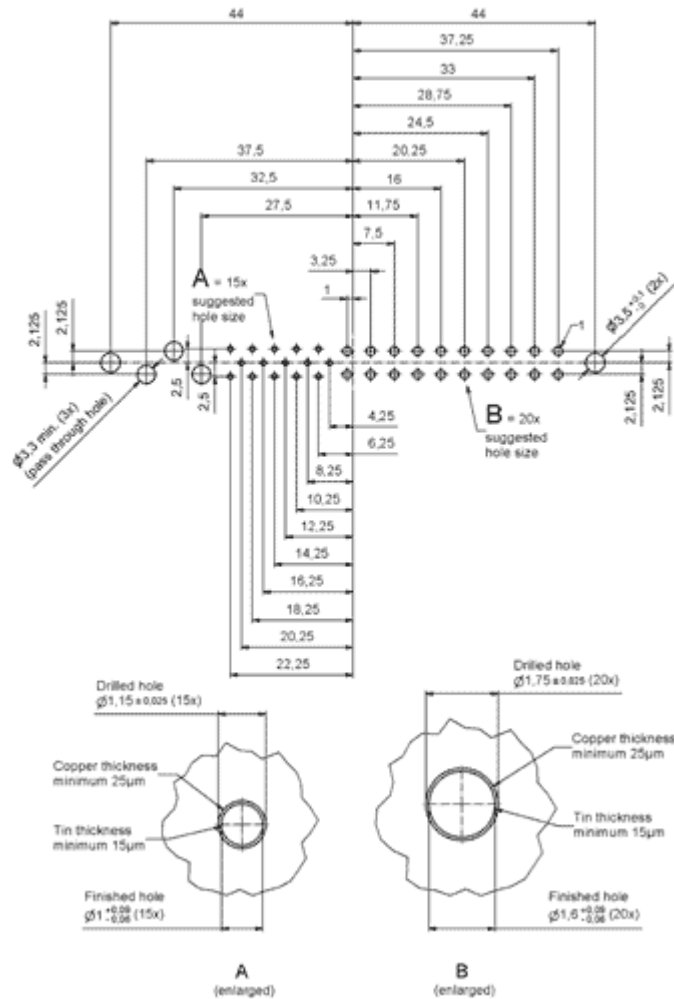
38-position partial loaded
For crimp contacts on Pos. 36 - 38
Press-Fit straight
Low profile

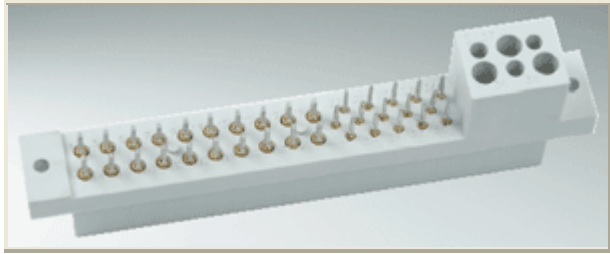
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



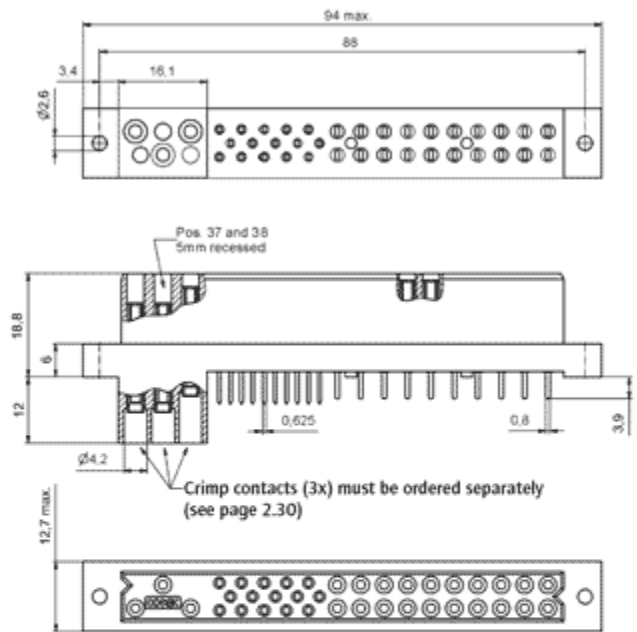


CompactPCI Female Connector

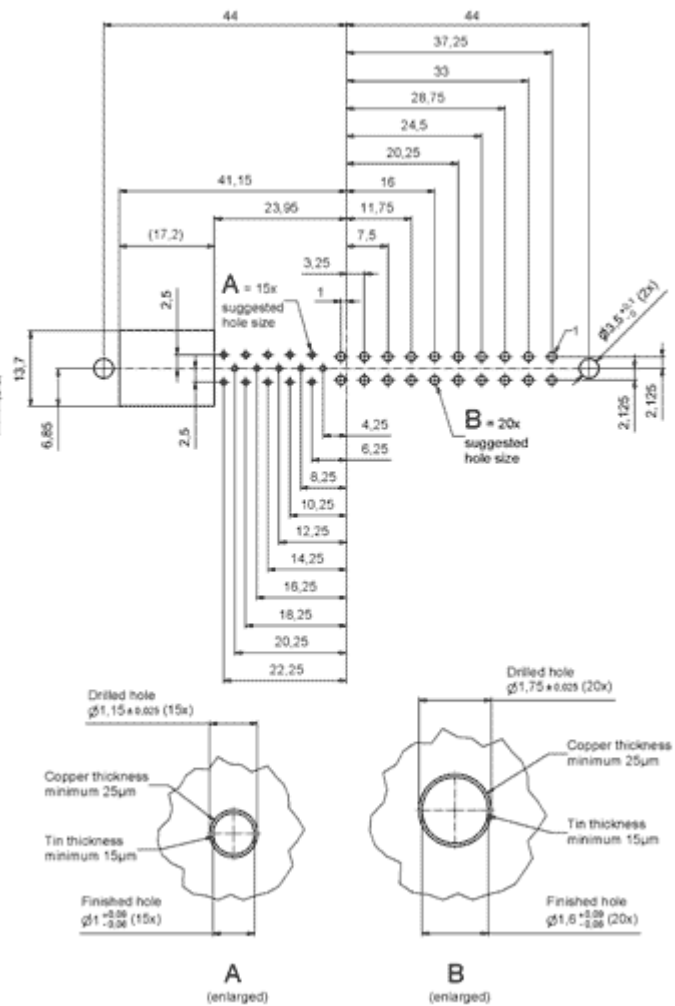
38-position partial loaded
For crimp contacts on Pos. 36 - 38
Press-Fit straight
High profile

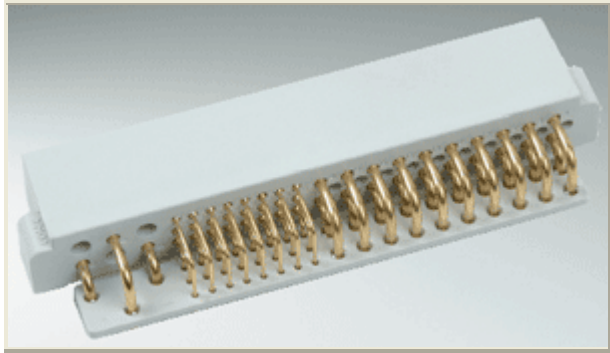
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CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



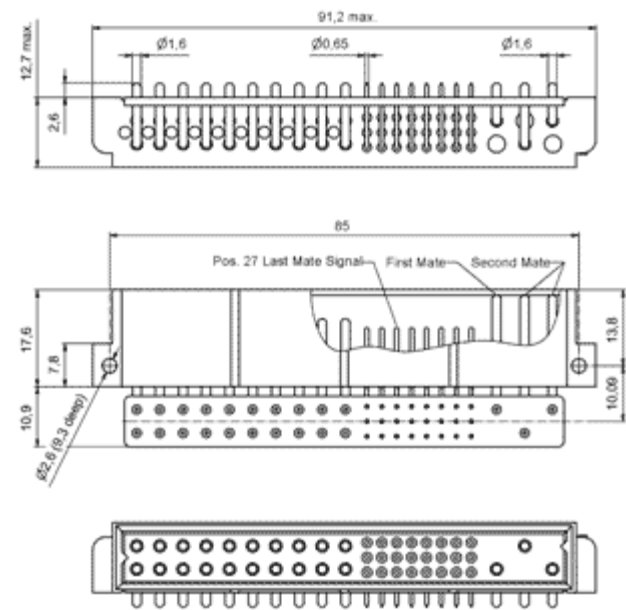


CompactPCI Male Connector

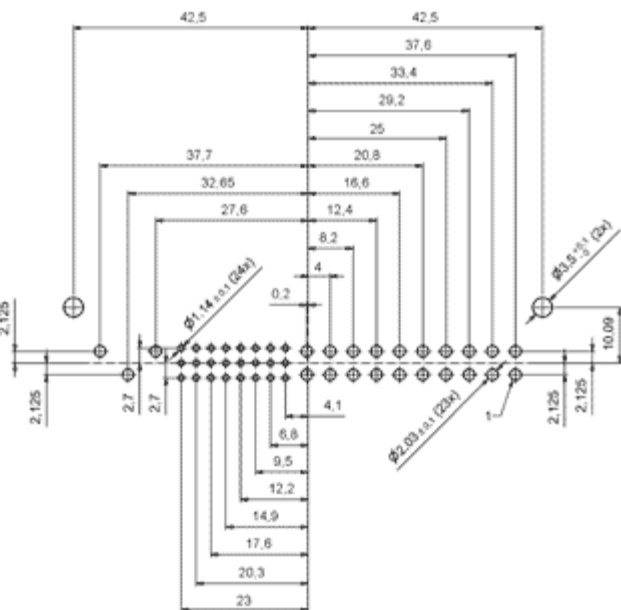
47-position
Solder pin angled
Standard

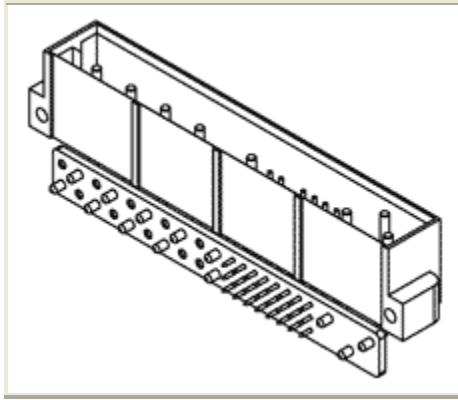
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CONNECTOR DIMENSIONS



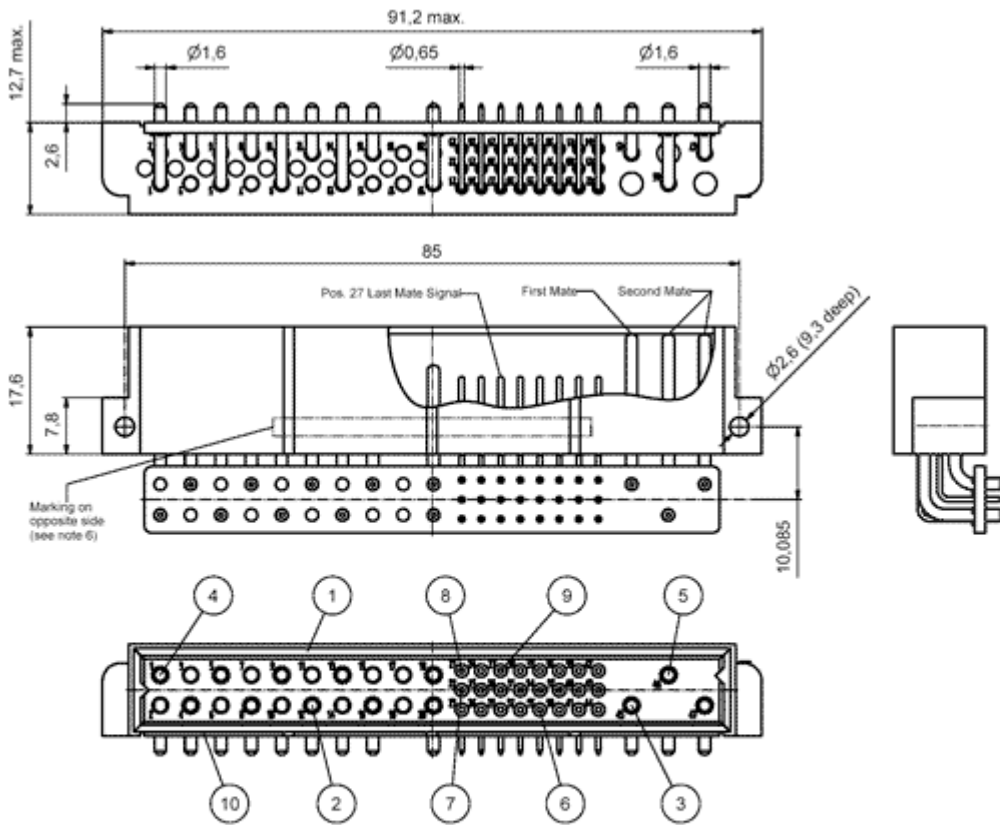
PCB-HOLE PATTERN



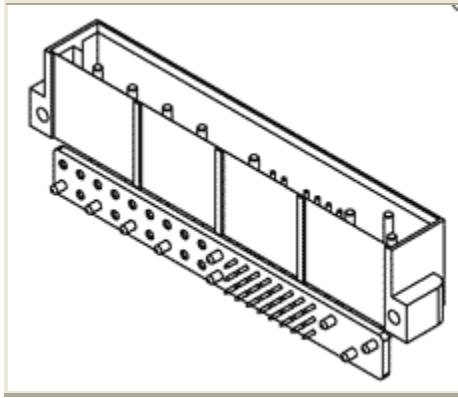


**CompactPCI
Male Connector 47 pos.
solder pin angled, standard**

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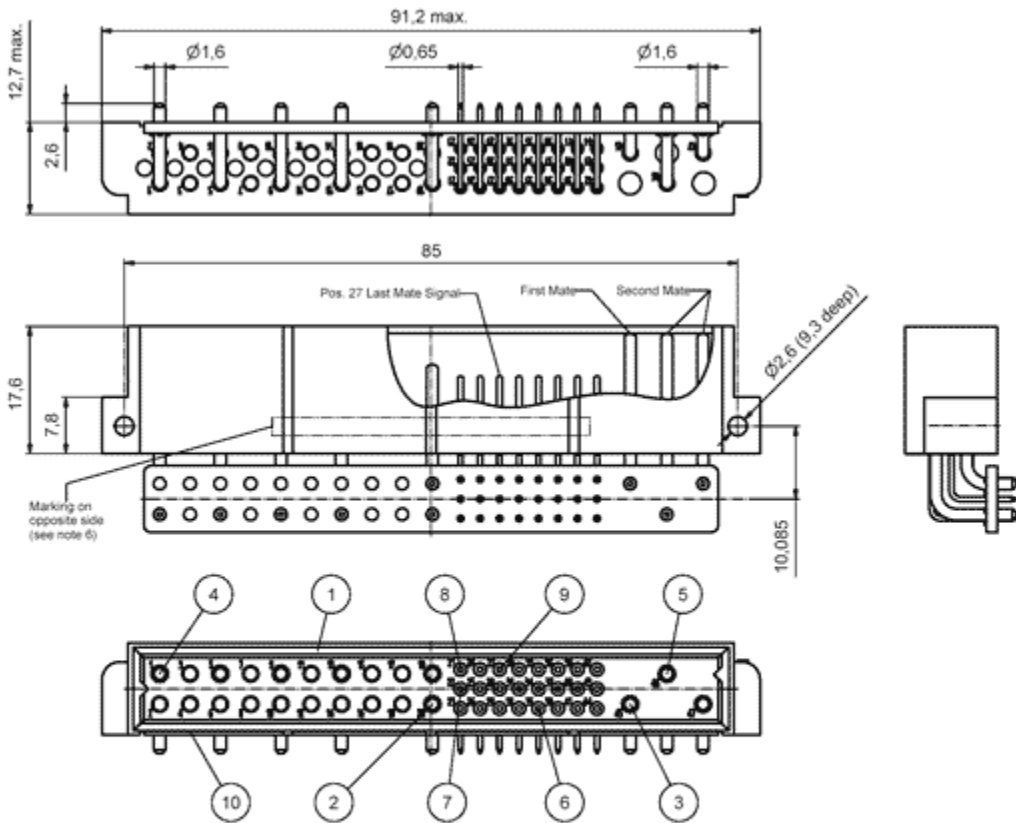


1	Fixing plate	10
1	Signal contact type 4 (Pos. 27)	9
7	Signal contact type 3 (Pos. 21 24 30 33 36 39 42)	8
8	Signal contact type 2 (Pos. 22 25 28 31 34 37 40 43)	7
8	Signal contact type 1 (Pos. 23 26 29 32 35 38 41 44)	6
1	Power contact type 4 (Pos. 46)	5
5	Power contact type 3 (Pos. 1 5 9 13 19)	4
2	Power contact type 2 (Pos. 45 47)	3
5	Power contact type 1 (Pos. 4 8 12 16 20)	2
1	Case 47 pos. male angled standard	1
quantity	part description	item

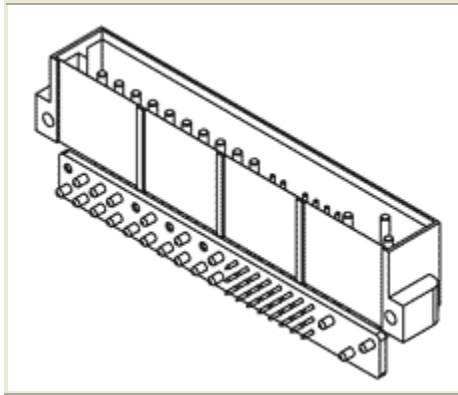


**CompactPCI
Male Connector 47 pos.
solder pin angled, standard**

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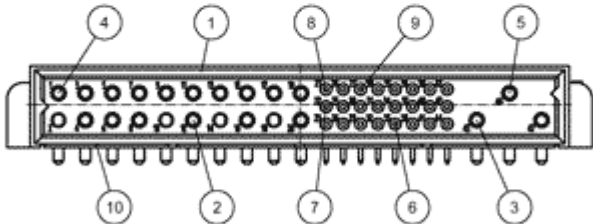
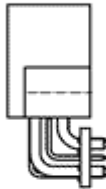
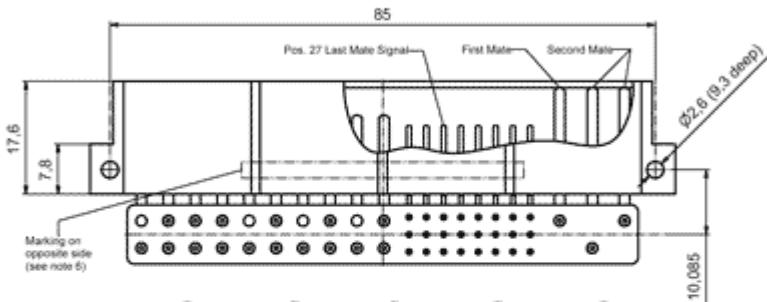
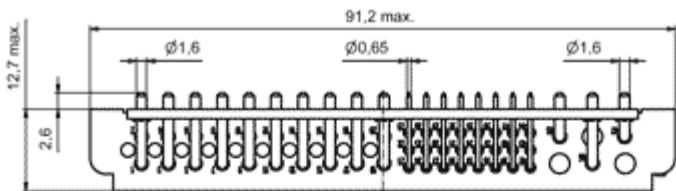


1	Fixing plate	10
1	Signal contact type4 (Pos. 27)	9
7	Signal contact type 3 (Pos. 21,24,30,33,36,39,42)	8
8	Signal contact type 2 (Pos. 22,25,28,31,34,37,40,43)	7
8	Signal contact type 1 (Pos. 23,26,29,32,35,38,41,44)	6
1	Power contact type 4 (Pos. 46)	5
5	Power contact type 3 (Pos. 1,5,9,13,19)	4
2	Power contact type 2 (Pos. 45,47)	3
1	Power contact type 1 (Pos. 20)	2
1	Case 47 pos. male angled standard	1
quantity	part description	Rem



**CompactPCI
Male Connector 47 pos.
solder pin angled, standard**

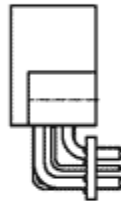
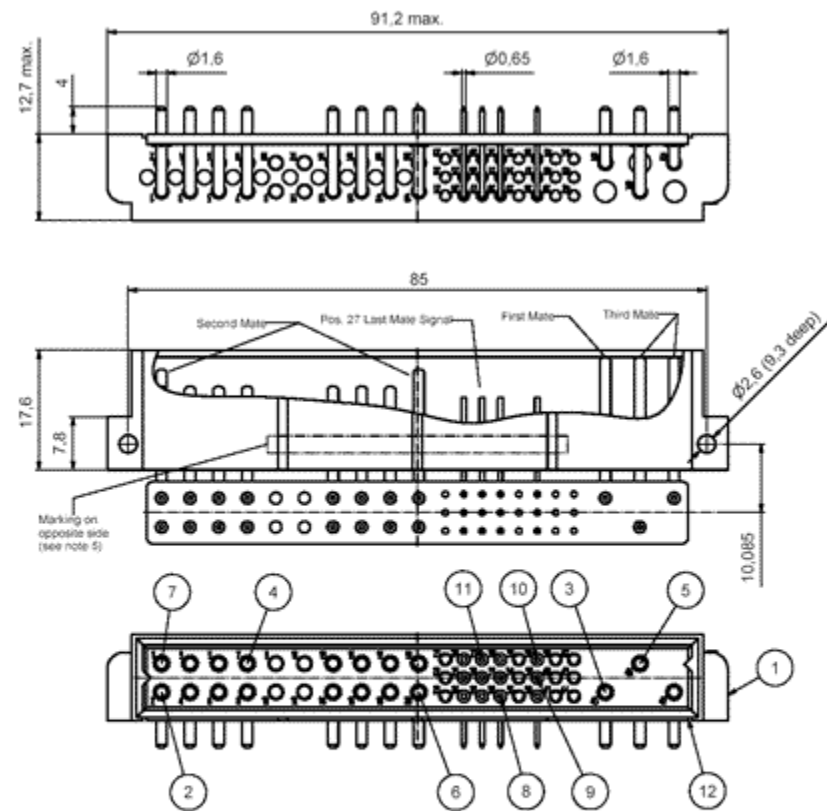
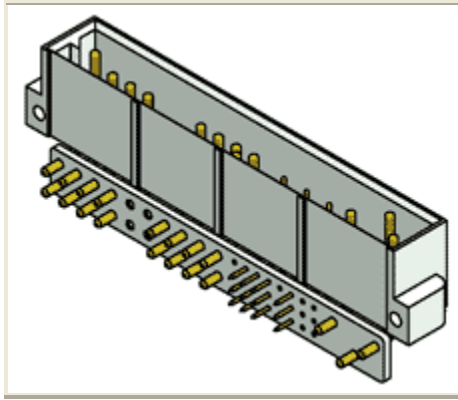
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Compliant



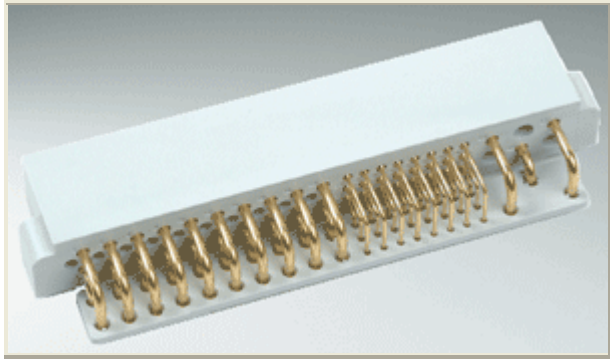
1	Fixing plate	10
1	Signal contact type 4 (Pos. 27)	9
7	Signal contact type 3 (Pos. 21,24,30,33,36,39,42)	8
8	Signal contact type 2 (Pos. 22,25,28,31,34,37,40,43)	7
8	Signal contact type 1 (Pos. 23,26,29,32,35,38,41,44)	6
1	Power contact type 4 (Pos. 48)	5
10	Power contact type 3 (Pos. 1,3,5,7,9,11,13,15,17,19)	4
2	Power contact type 2 (Pos. 45,47)	3
6	Power contact type 1 (Pos. 4,6,8,12,16,20)	2
1	Case 47pos. male angled standard	1
quantity	part description	item

**CompactPCI
Male Connector 47 pos.
solder pin angled**

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Compliant



12	1	Fixing plate
11	1	Signal contact type 4 (Pos. 27)
10	3	Signal contact type 3 (Pos. 24, 30, 36)
9	4	Signal contact type 2 (Pos. 25, 29, 31, 37)
8	4	Signal contact type 1 (Pos. 26, 29, 32, 38)
7	1	Power contact type 6 (Pos. 1)
6	1	Power contact type 6 (Pos. 20)
5	1	Power contact type 4 (Pos. 46)
4	7	Power contact type 3 (Pos. 3, 5, 7, 13, 15, 17, 19)
3	2	Power contact type 2 (Pos. 45, 47)
2	7	Power contact type 5 (Pos. 2, 4, 6, 8, 14, 16, 18)
1	1	Case 47pos. male angled standard
item	quantity	part description

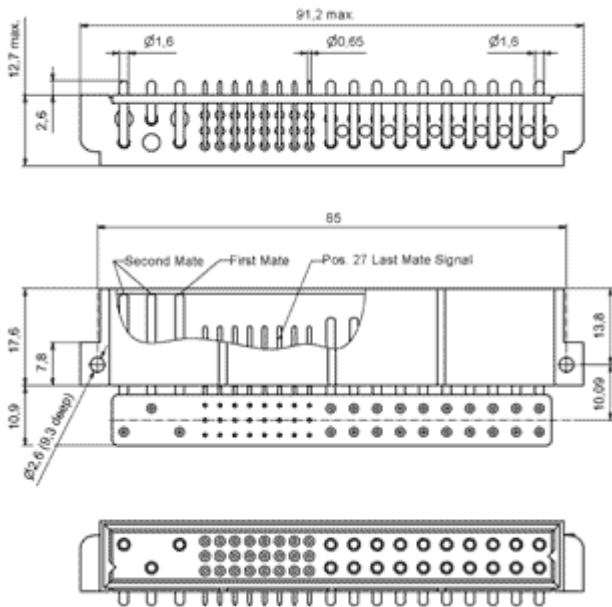


CompactPCI Male Connector

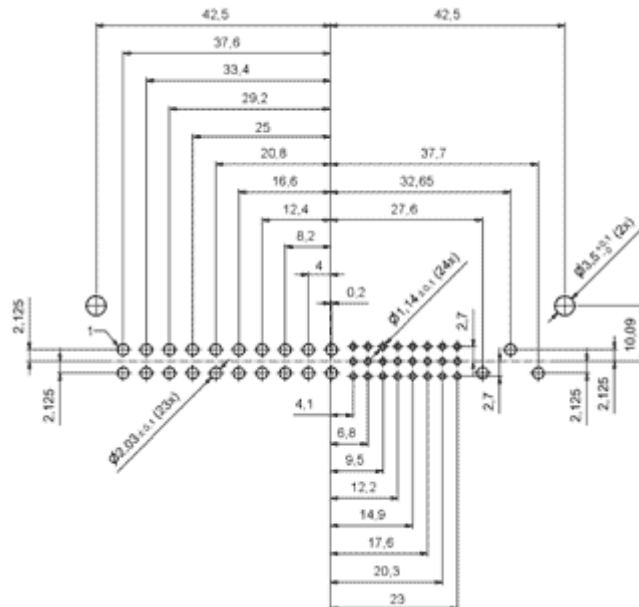
47-position
Solder pin angled
Inverted

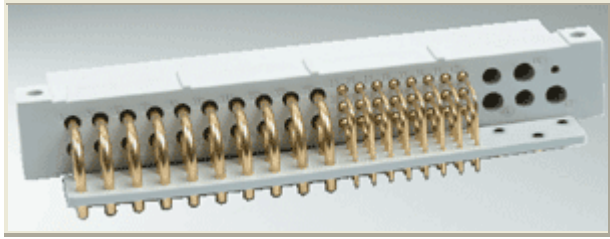
Directive 2002/95/EC
"RoHS"
Compliant

CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



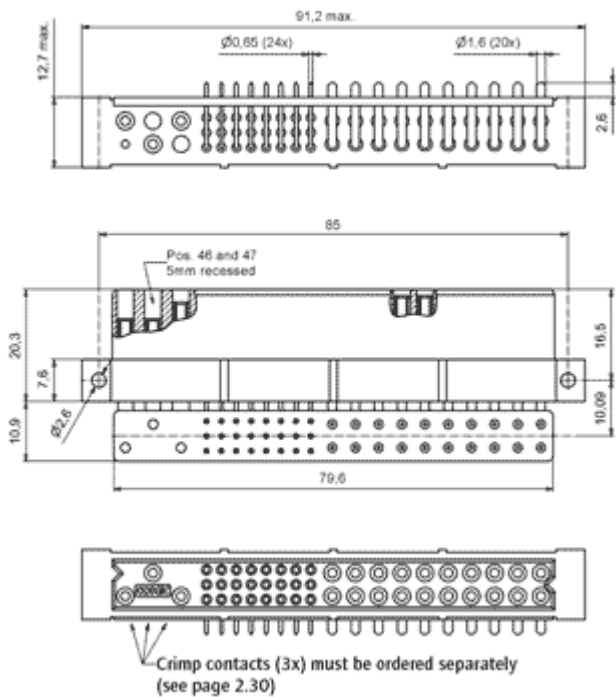


CompactPCI Female Connector

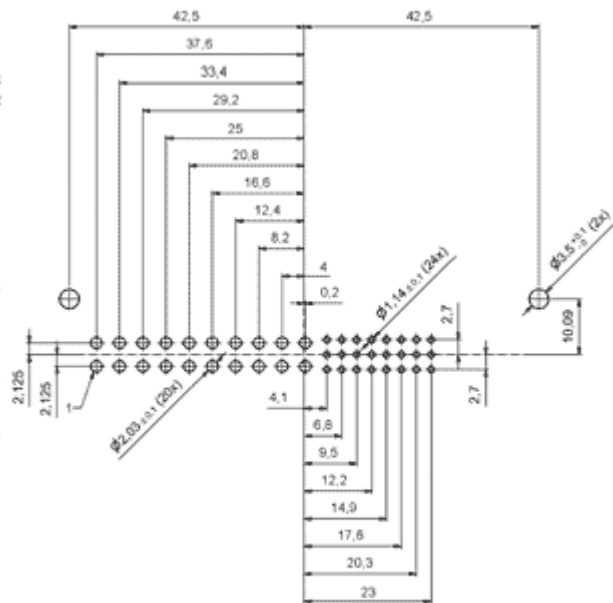
47-position partial loaded
For crimp contacts on Pos. 45 - 47
Solder pin angled
Standard

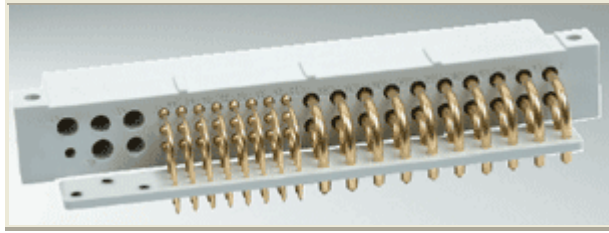
Directive 2002/95/EC
„RoHS“
Compliant

CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



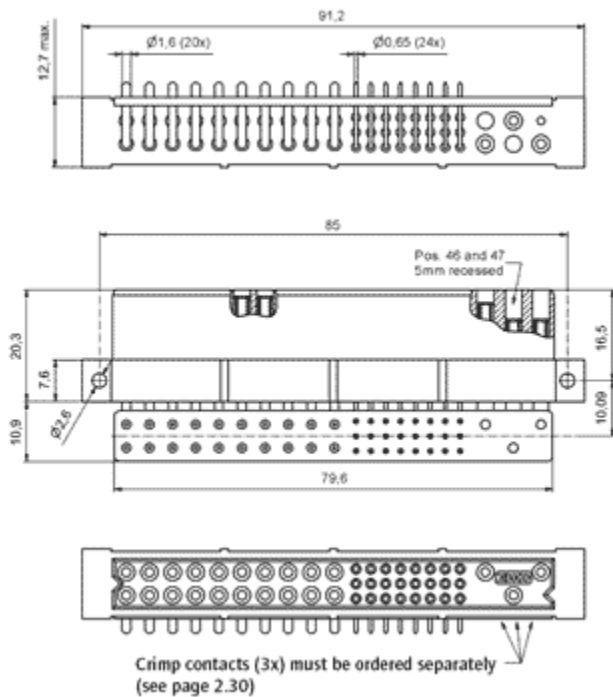


CompactPCI Female Connector

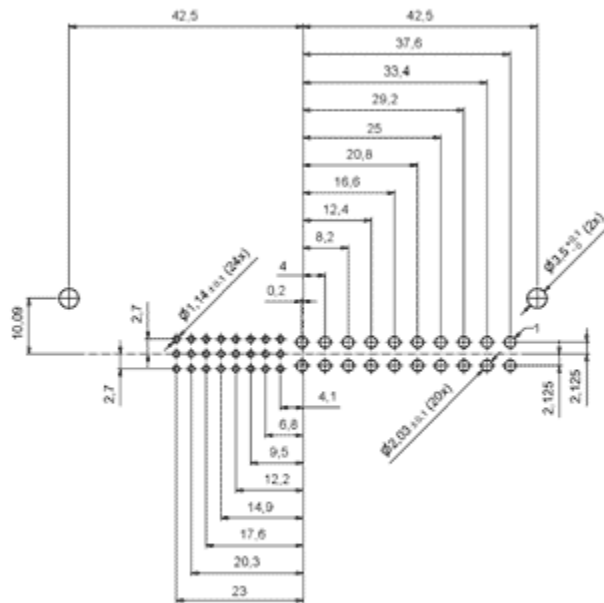
47-position partial loaded
For crimp contacts on Pos. 45 - 47
Solder pin angled
Inverted

Directive 2002/95/EC
„RoHS“
Compliant

CONNECTOR DIMENSIONS

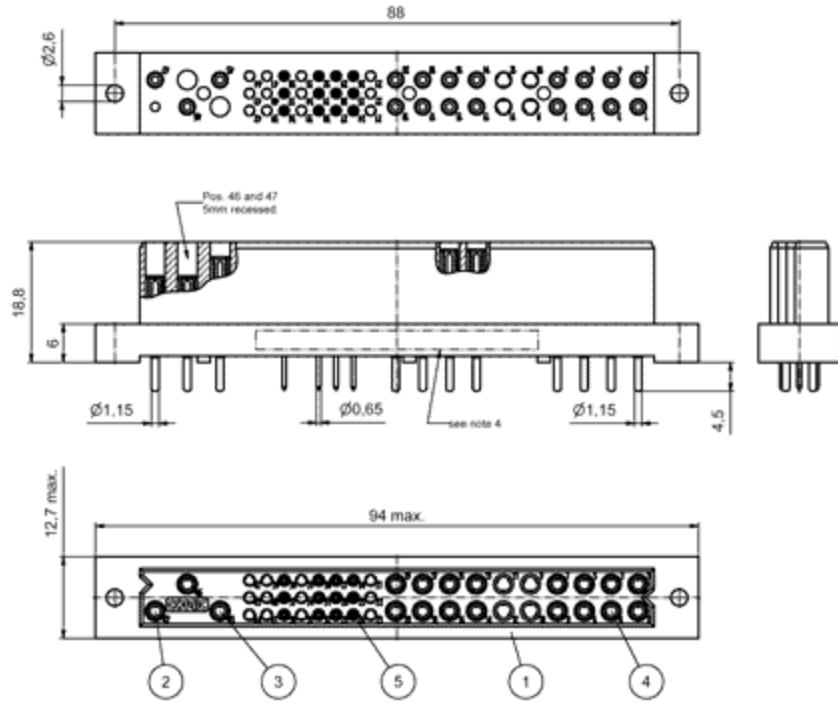
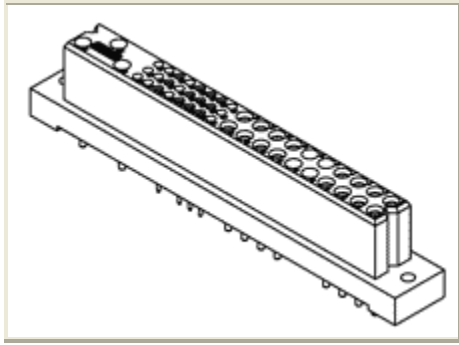


PCB-HOLE PATTERN

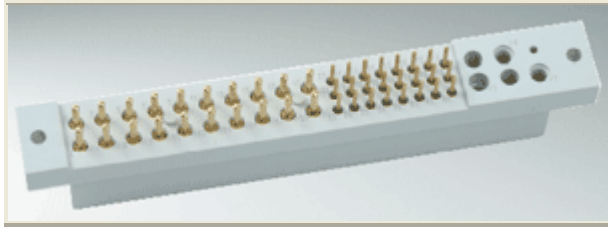


**CompactPCI
Female Connector 47 pos.
solder pin straight**

Directive 2002/95/EC
„RoHS“
Compliant



12	Signal contact (Pos. 24-32, 36-38)	5
16	Power contact type 3 (Pos. 1-8, 13-20)	4
1	Power contact type 2 (Pos. 45)	3
2	Power contact type 1 (Pos. 46-47)	2
1	Case 47pos. female	1
quantity	part description	item

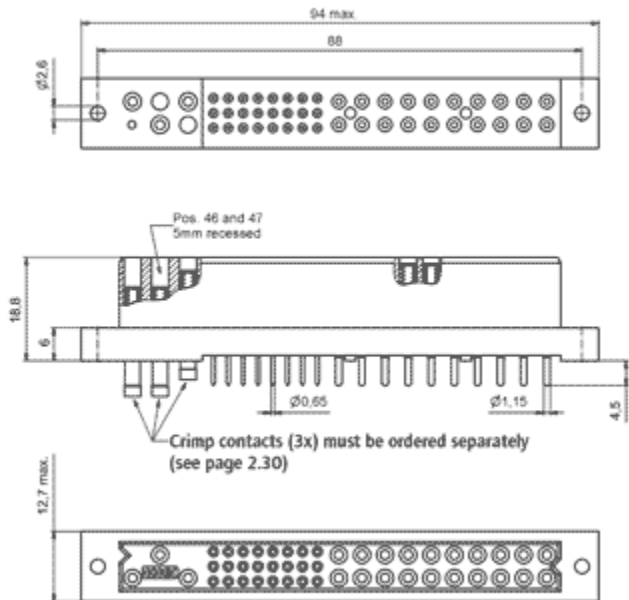


CompactPCI Female Connector

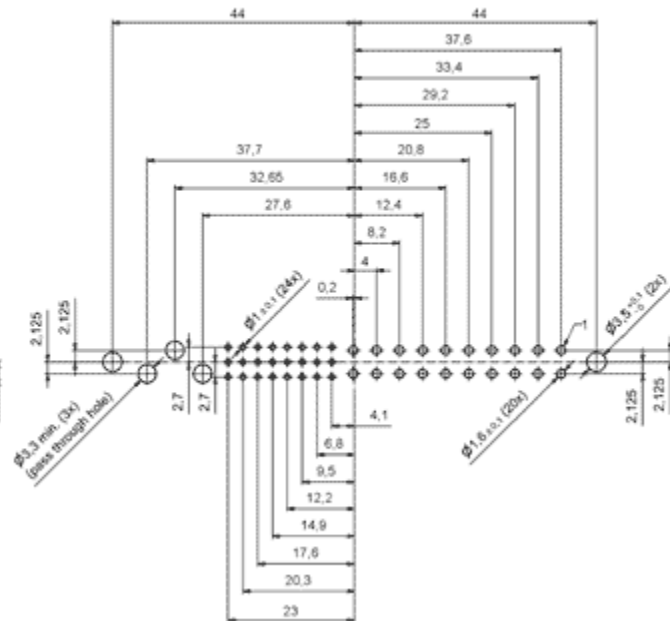
47-position partial loaded
For crimp contacts on Pos. 45 - 47
Solder pin straight
Low profile

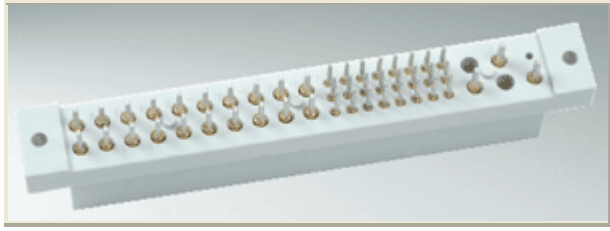
Directive 2002/95/EC
„RoHS“
Compliant

CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



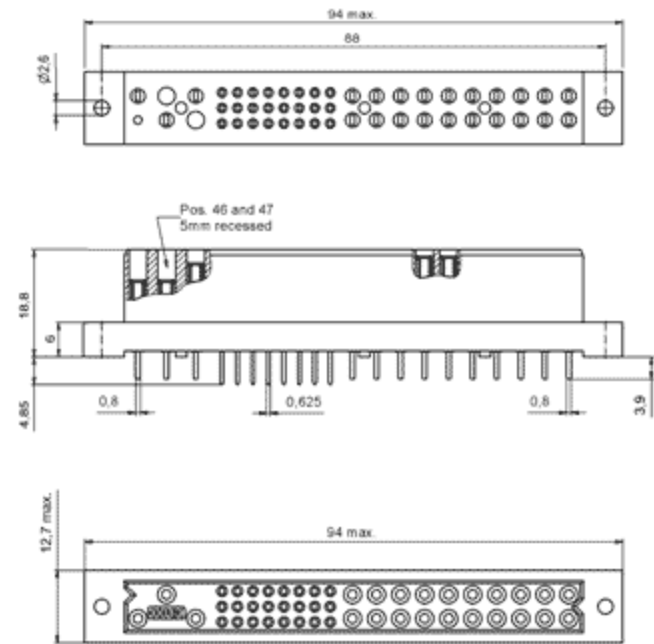


CompactPCI Female Connector

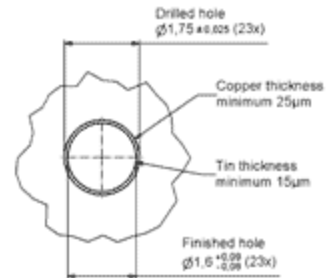
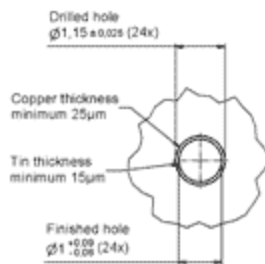
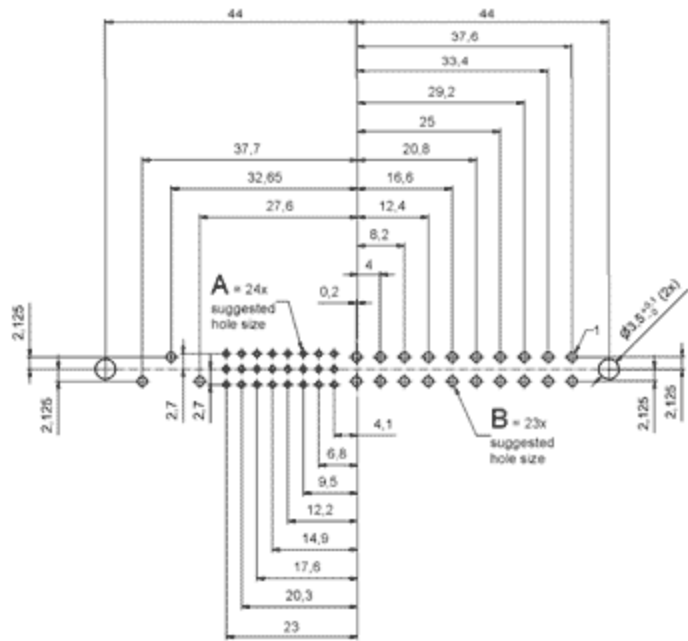
47-position
Press-Fit straight
Standard

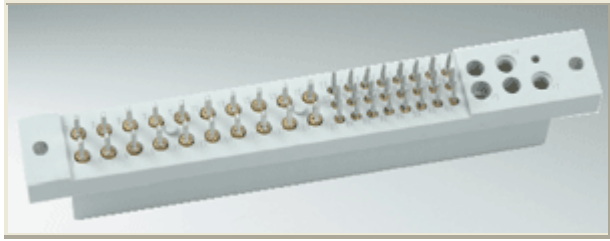
Directive 2002/95/EC
"RoHS"
Compliant

CONNECTOR DIMENSIONS



PCB-HOLE PATTERN



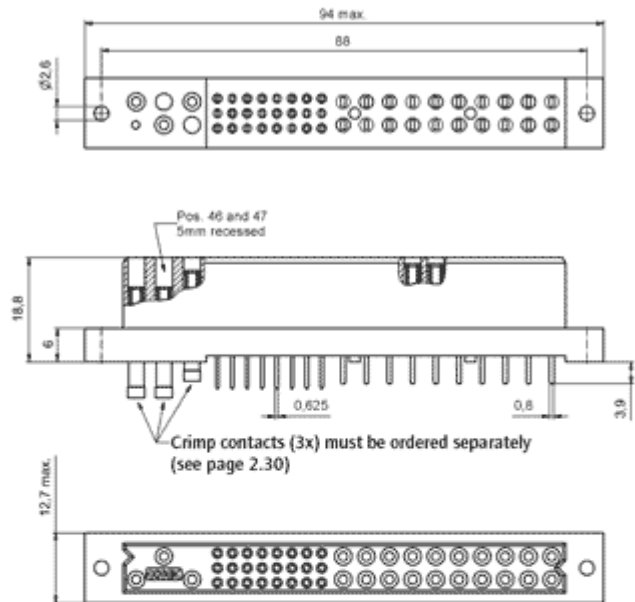


CompactPCI Female Connector

47-position partial loaded
For crimp contacts on Pos. 45 - 47
Press-Fit straight
Low profile

Directive 2002/95/EC
„RoHS“
Compliant

CONNECTOR DIMENSIONS



PCB-HOLE PATTERN

