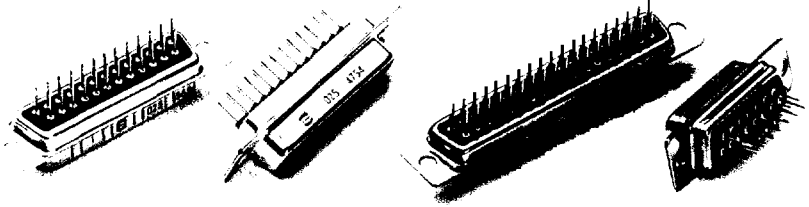


Number of contacts

**9-50**



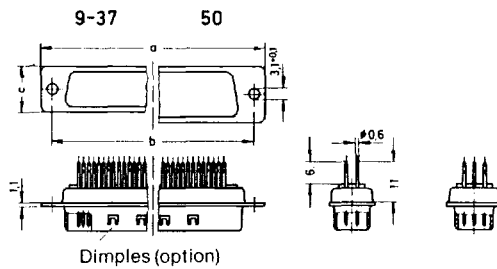
Solder pins, straight

Identification	No. of contacts	Part No.			
		Performance Level 3	Performance Level 2	Performance Level 3	Performance Level 2
Performance Levels Explanations page 6 Other performance levels on request					
Type of metal shell		tinned Male connector with dimples		yellow chromated	
Male connector - straight solder pins		turned contacts	turned contacts	turned contacts	turned contacts
	9	09 67 009 5654	09 67 009 5655	09 67 009 2654	09 67 009 2655
	15	09 67 015 5654	09 67 015 5655	09 67 015 2654	09 67 015 2655
	25	09 67 025 5654	09 67 025 5655	09 67 025 2654	09 67 025 2655
	37	09 67 037 5654	09 67 037 5655	09 67 037 2654	09 67 037 2655
	50	09 67 050 5654*	09 67 050 5655	09 67 050 2654*	09 67 050 2655
Female connector - straight solder pins		turned contacts	turned contacts	turned contacts	turned contacts
	9	09 67 009 4754	09 67 009 4755	09 67 009 2754	09 67 009 2755
	15	09 67 015 4754	09 67 015 4755	09 67 015 2754	09 67 015 2755
	25	09 67 025 4754	09 67 025 4755	09 67 025 2754	09 67 025 2755
	37	09 67 037 4754	09 67 037 4755	09 67 037 2754	09 67 037 2755
	50	09 67 050 4754*	09 67 050 4755	09 67 050 2754*	09 67 050 2755

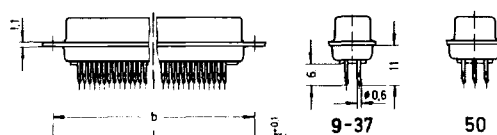
Dimensions

Dimensions in mm

Male connector

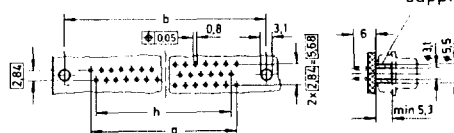


Female connector



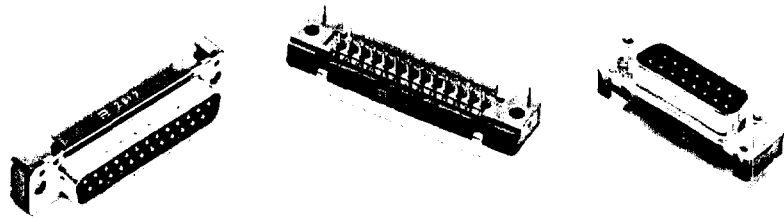
	a	b±0.15	c	g		h	
9	30.9	25	12.5	4 × (2.74)-(10.96)	3 × (2.74)-(6.22)		
15	39.2	33.3	12.5	7 × (2.74)-(10.18)	6 × (2.74)-(16.44)		
25	53.1	47	12.5	12 × (2.74)-(33.12)	11 × (2.74)-(30.38)		
37	69.4	63.5	12.5	18 × (2.74)-(69.68)	17 × (2.74)-(66.92)		
50	87	81.1	15.4	16 × (2.74)-(44.19)	15 × (2.74)-(41.4)		

Board drillings  
straight solder pins



Number of contacts

# 9-50



Solder pins, straight - with/without grounding-pins

Identification	No. of contacts	Part No.
<b>Performance Levels</b>		
Explanations page 6		
Other performance levels on request		
		Performance Level 3
		Performance Level 2
<b>Male connector</b>		
- straight solder pins	9	without grounding 09 66 121 770
tinned metal shell and dimples	15	09 66 221 770
	25	09 66 321 770
	37	09 66 421 770
	50	09 66 521 770 *
	9	with grounding-pins 09 66 161 770
	15	09 66 261 770
	25	09 66 361 770
	37	09 66 461 770
	50	09 66 561 770 *
<b>Female connector</b>		
- straight solder pins	9	without grounding 09 66 111 750
tinned metal shell	15	09 66 211 750
	25	09 66 311 750
	37	09 66 411 750
	50	09 66 511 750 *
	9	with grounding-pins 09 66 151 750
	15	09 66 251 750
	25	09 66 351 750
	37	09 66 451 750
	50	09 66 551 750 *

Please insert digit for flange thread or fitted female screw locks

M3 ▶ 1  
4-40 UNC ▶ 2  
fitted screw locks 4-40 UNC ▶ 3\*\*

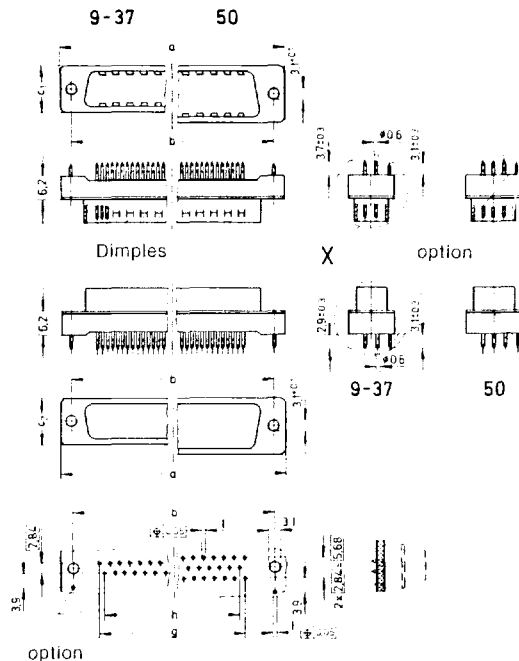
**Dimensions**

Dimensions in mm

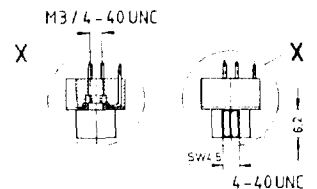
Male connector

Female connector

Board drillings straight solder pins



	a	b±0.1	c1	c2	g	h
9	30.9	25	12.9	12.5	4 × 2.76 ± 0.096	3 × 2.76 ± 0.22
15	39.2	33.3	12.9	12.5	7 × 2.76 ± 0.198	6 × 2.76 ± 0.24
25	53.1	47	12.9	12.5	12 × 2.76 ± 0.312	11 × 2.76 ± 0.36
37	69.4	63.5	12.9	12.5	18 × 2.76 ± 0.498	17 × 2.76 ± 0.492
50	87	81.1	15.7	15.4	16 × 2.76 ± 0.416	15 × 2.76 ± 0.41



Mating conditions page 6

\* Not normally kept in stock  
\*\* Fitted screw locks 4-40 UNC not normally kept in stock for performance level 3

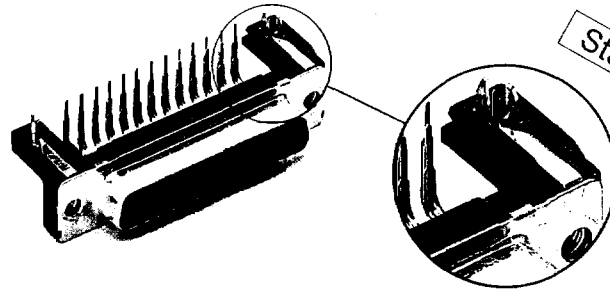
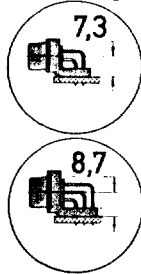


# D-Sub DIN 41 652 · MIL-C-24 308 · IEC 807

Number of contacts

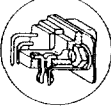
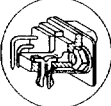
Mounting height

**9-37**  
**50**



*Standard Versions*

Solder pins, angled - with snap-in-clips and grounding-pins

Identification	No. of contacts	Part No.
<b>Performance Levels</b>		
Explanations page 6		
Other performance levels on request		
<b>Male connector</b>		
- angled solder pins		
tinned metal shell and dimples		
		
<b>Female connector</b>		
- angled solder pins		
tinned metal shell		
		

Performance Level	Performance Level 3		Performance Level 2	
	Row separation	Part No.	Row separation	Part No.
2.84 mm	2.84 mm	09 66 163 781	2.84 mm	09 66 163 681
		09 66 263 781		09 66 263 681
		09 66 363 781		09 66 363 681
		09 66 463 781		09 66 463 681
		09 66 563 781 *		09 66 563 681
2.54 mm	2.54 mm	09 66 162 781	2.54 mm	09 66 162 681
		09 66 262 781		09 66 262 681
		09 66 362 781		09 66 362 681
		09 66 462 781		09 66 462 681
		09 66 562 781 *		09 66 562 681
2.84 mm	2.84 mm	09 66 153 761	2.84 mm	09 66 153 661
		09 66 253 761		09 66 253 661
		09 66 353 761		09 66 353 661
		09 66 453 761		09 66 453 661
		09 66 553 761 *		09 66 553 661
2.54 mm	2.54 mm	09 66 152 761	2.54 mm	09 66 152 661
		09 66 252 761		09 66 252 661
		09 66 352 761		09 66 352 661
		09 66 452 761		09 66 452 661
		09 66 552 761 *		09 66 552 661

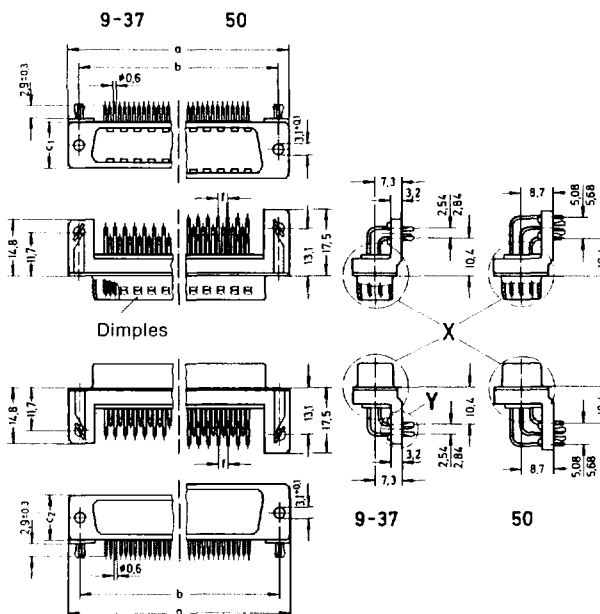
Please insert digit for  
flange thread or fitted  
female screw locks

M3 ▶ 1  
4-40 UNC ▶ 2  
fitted screw locks 4-40 UNC ▶ 3

## Dimensions

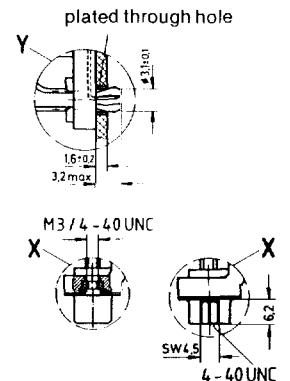
Male connector

Female connector



Dimensions in mm

	a	b(±0)	c <sub>1</sub>	c <sub>2</sub>	f
9	30.9	25	12.9	12.5	2.74
15	39.2	33.3	12.9	12.5	2.74
25	53.1	47	12.9	12.5	2.76
37	68.4	63.5	12.9	12.5	2.76
50	67	61.1	15.7	15.4	2.76



Mating conditions page 6  
Mounting details page 13

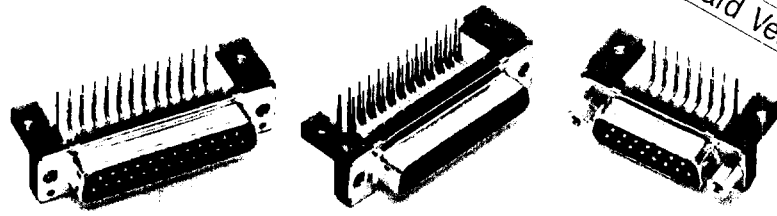
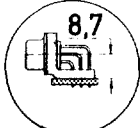
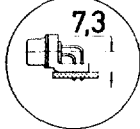
D-Sub DIN 41 652 · MIL-C-24 308 · IEC 807



Number of contacts

Mounting height

9-37  
50



Standard Versions

Solder pins, angled - without grounding

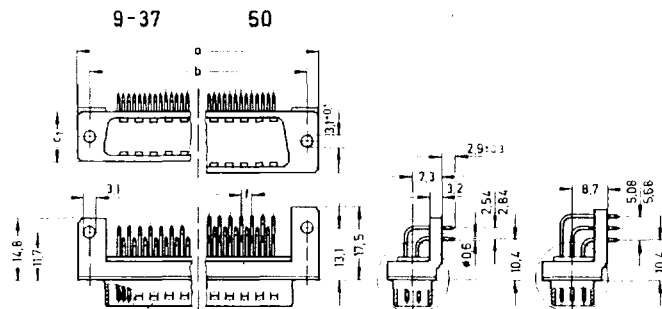
Identification	No. of contacts	Performance Level	Part No.
Performance Levels Explanations page 6 Other performance levels on request		3	2
Male connector - angled solder pins tinned metal shell and dimples	9	Row separation 2.84 mm	Row separation 2.84 mm
	15	09 66 123 780	09 66 123 680
	25	09 66 223 780	09 66 223 680
	37	09 66 323 780	09 66 323 680
	50	09 66 423 780	09 66 423 680
		* 09 66 523 780	* 09 66 523 680
	9	Row separation 2.54 mm	Row separation 2.54 mm
	15	09 66 122 780	09 66 122 680
	25	09 66 222 780	09 66 222 680
	37	09 66 322 780	09 66 322 680
50	09 66 422 780	09 66 422 680	
	* 09 66 522 780	* 09 66 522 680	
Female connector - angled solder pins tinned metal shell	9	Row separation 2.84 mm	Row separation 2.84 mm
	15	09 66 113 760	09 66 113 660
	25	09 66 213 760	09 66 213 660
	37	09 66 313 760	09 66 313 660
	50	09 66 413 760	09 66 413 660
		* 09 66 513 760	* 09 66 513 660
	9	Row separation 2.54 mm	Row separation 2.54 mm
	15	09 66 112 760	09 66 112 660
	25	09 66 212 760	09 66 212 660
	37	09 66 312 760	09 66 312 660
50	09 66 412 760	09 66 412 660	
	* 09 66 512 760	* 09 66 512 660	

Please insert digit for flange thread or fitted female screw locks  
 M3 ▶ 1  
 4-40 UNC ▶ 2  
 fitted screw locks 4-40 UNC ▶ 3

Dimensions

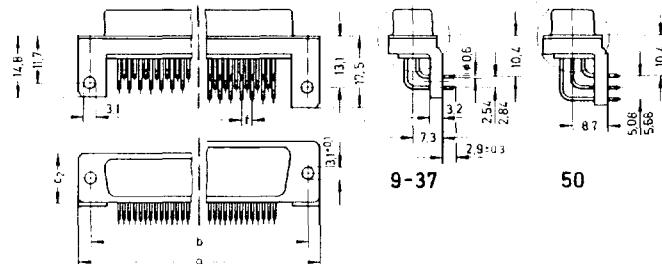
Dimensions in mm

Male connector

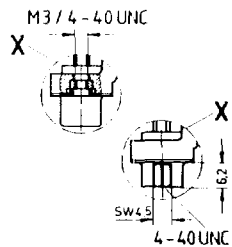


Dimples

Female connector



	a	b±0.1	c <sub>1</sub>	c <sub>2</sub>	f
9	30.9	25	12.9	12.5	2.74
15	39.2	33.3	12.9	12.5	2.74
25	53.1	47	12.9	12.5	2.76
37	69.4	63.5	12.9	12.5	2.76
50	67	61.1	15.7	15.4	2.76



Mating conditions page 6  
 Mounting details page 13

\* Not normally kept in stock

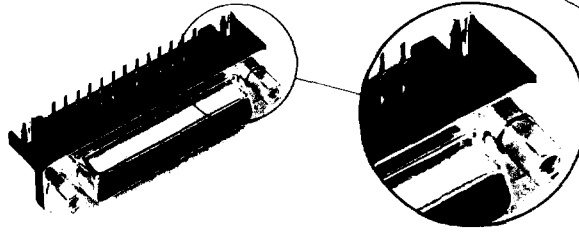
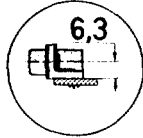
# D-Sub



Number of contacts

Mounting height

# 9-37



U.S. Footprint

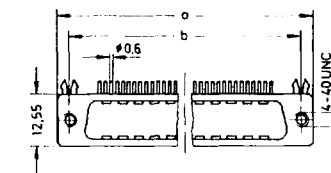
Solder pins, angled - with snap-in-clips and grounding-pins

Identification	No. of contacts	Part. No.
<b>Performance Levels</b> Explanations page 6		Performance Level 3 Performance Level $\geq 0.76 \mu\text{m Au}$ (30 $\mu\text{inch}$ )
<b>Male connector</b> - angled solder pins tinned metal shell and dimples	9 15 25 37	09 68 163 781 . 09 68 263 781 . 09 68 363 781 . 09 68 463 781 .
<b>Female connector</b> - angled solder pins tinned metal shell	9 15 25 37	09 68 153 761 . 09 68 253 761 . 09 68 353 761 . 09 68 453 761 .
Please insert digit for flange thread or fitted female screw locks		
4-40 UNC ▶ 2 fitted screw locks 4-40 UNC ▶ 3		

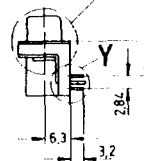
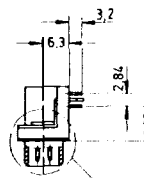
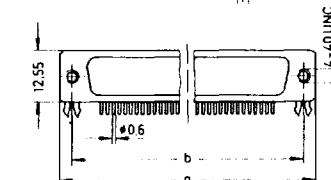
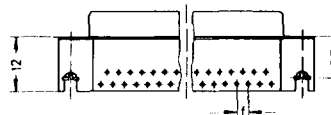
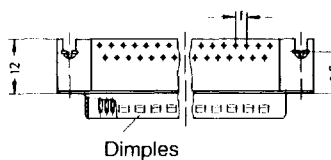
## Dimensions

Dimensions in mm

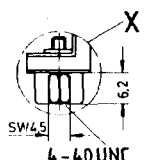
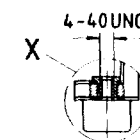
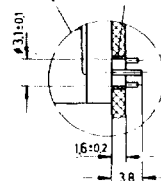
Male connector



Female connector



Y plated through hole



	a	b±0.1	f
9	30.9	25.0	2.74
15	39.2	33.3	2.74
25	53.1	47.0	2.77
37	69.4	63.5	2.77

Mating conditions page 6  
 Mounting details page 13

Identification

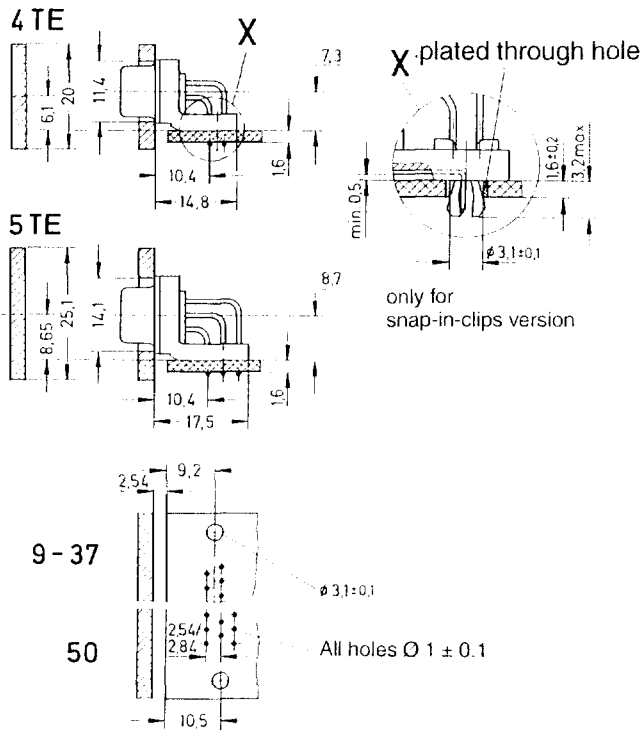
Drawing

Dimensions in mm

**Standard Versions**

Mounting height 7.3 mm  
 9-37 way  
 for front panel  
 4 units of width (TE)

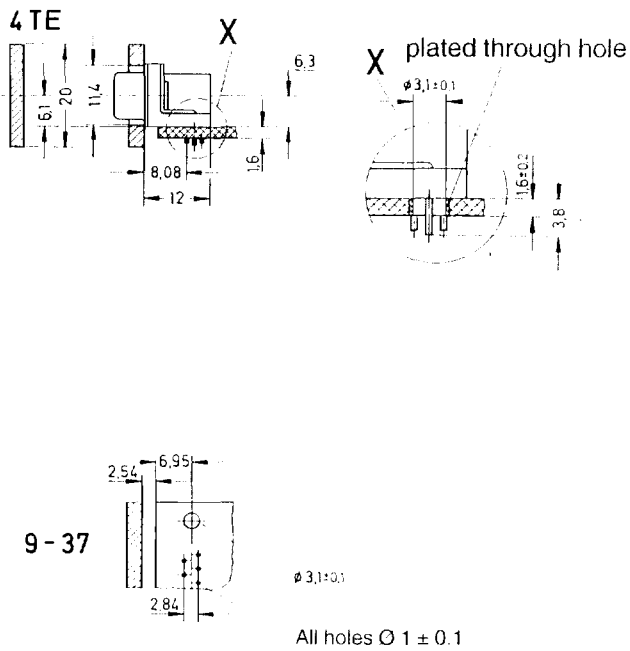
Mounting height 8.7 mm  
 50 way  
 for front panel  
 5 units of width (TE)



for connectors page 10, 11

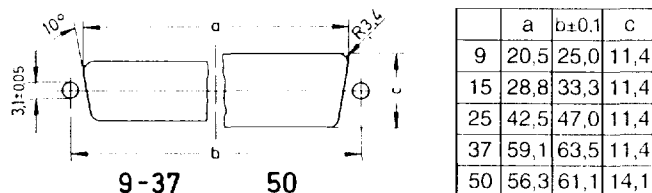
**U.S. Footprint Versions**

Mounting height 6.3 mm  
 9-37 way  
 for front panel  
 4 units of width (TE)



for connectors page 12

Panel cut out  
 for front panel





Original Versions

Number of contacts

9-50



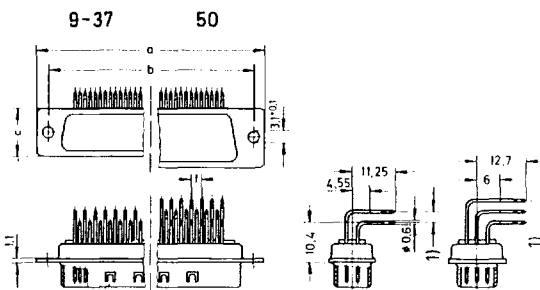
Solder pins, angled - without fixing bracket

Identification	No. of contacts	Part No.			
		Performance Level 3	Performance Level 2	Performance Level 3	Performance Level 2
Performance Levels Explanations page 6 Other performance levels on request					
Type of metal shell		tinned Male connector with dimples		yellow chromated	
Male connector - angled solder pins		Row separation 2.84 mm	Row separation 2.84 mm	Row separation 2.84 mm	Row separation 2.84 mm
	9	09 67 009 5663	09 67 009 5664	09 67 009 2663	09 67 009 2664
	15	09 67 015 5663	09 67 015 5664	09 67 015 2663	09 67 015 2664
	25	09 67 025 5663	09 67 025 5664	09 67 025 2663	09 67 025 2664
	37	09 67 037 5663	09 67 037 5664	09 67 037 2663	09 67 037 2664
	50	09 67 050 5663*	09 67 050 5664	09 67 050 2663*	09 67 050 2664
		Row separation 2.54 mm	Row separation 2.54 mm	Row separation 2.54 mm	Row separation 2.54 mm
	9	09 67 009 5657*	09 67 009 5658*	09 67 009 2657*	09 67 009 2658*
	15	09 67 015 5657*	09 67 015 5658*	09 67 015 2657*	09 67 015 2658*
	25	09 67 025 5657*	09 67 025 5658*	09 67 025 2657*	09 67 025 2658*
	37	09 67 037 5657*	09 67 037 5658*	09 67 037 2657*	09 67 037 2658*
	50	09 67 050 5657*	09 67 050 5658*	09 67 050 2657*	09 67 050 2658*
Female connector - angled solder pins		Row separation 2.84 mm	Row separation 2.84 mm	Row separation 2.84 mm	Row separation 2.84 mm
	9	09 67 009 4763	09 67 009 4764	09 67 009 2763	09 67 009 2764
	15	09 67 015 4763	09 67 015 4764	09 67 015 2763	09 67 015 2764
	25	09 67 025 4763	09 67 025 4764	09 67 025 2763	09 67 025 2764
	37	09 67 037 4763	09 67 037 4764	09 67 037 2763	09 67 037 2764
	50	09 67 050 4763*	09 67 050 4764	09 67 050 2763	09 67 050 2764
		Row separation 2.54 mm	Row separation 2.54 mm	Row separation 2.54 mm	Row separation 2.54 mm
	9	09 67 009 4757*	09 67 009 4758*	09 67 009 2757*	09 67 009 2758*
	15	09 67 015 4757*	09 67 015 4758*	09 67 015 2757*	09 67 015 2758*
	25	09 67 025 4757*	09 67 025 4758*	09 67 025 2757*	09 67 025 2758*
	37	09 67 037 4757*	09 67 037 4758*	09 67 037 2757*	09 67 037 2758*
	50	09 67 050 4757*	09 67 050 4758*	09 67 050 2757*	09 67 050 2758*

Dimensions

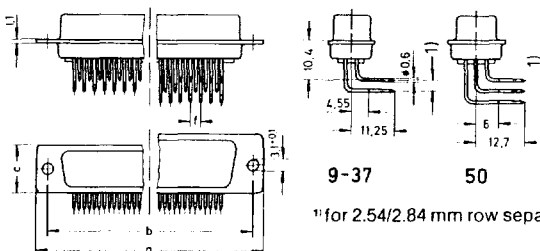
Dimensions in mm

Male connector



Dimples (option)

Female connector



	a	b±0.15	c	f
9	30.9	25	12.5	2.74
15	39.2	33.3	12.5	2.74
25	53.1	47	12.5	2.76
37	69.4	63.5	12.5	2.76
50	67	61.1	5.4	2.76

\*for 2.54/2.84 mm row separation

Mating conditions page 6  
Accessories page 15

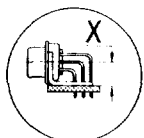
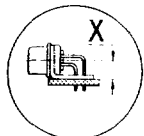


Accessories

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm																																				
<b>Mounting comb</b> for alignment of floating angled solder pins	9-50	09 99 000 0097																																						
<b>Fixing bracket</b>																																								
<b>Metal bracket</b>	9-37 50	09 67 000 9910 <sup>1)</sup> 09 67 000 9911 <sup>1)</sup>		<table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>9-37</td> <td>10,8</td> <td>6,5</td> </tr> <tr> <td>50</td> <td>12,2</td> <td>8</td> </tr> </tbody> </table>		a	b	9-37	10,8	6,5	50	12,2	8																											
	a	b																																						
9-37	10,8	6,5																																						
50	12,2	8																																						
<b>Plastic bracket</b>	9-50	09 67 000 9913 <sup>1)</sup>																																						
<sup>1)</sup> order 2 per connector																																								
<b>Mounting bracket</b> for row separation 2.54/2.84 mm	9 15 25 37 50	09 67 000 9935 09 67 000 9997 09 67 000 9998 09 67 000 9938 09 67 000 9939 <sup>2)</sup>		<table border="1"> <thead> <tr> <th></th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>25</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,74</td> </tr> <tr> <td>15</td> <td>33,3</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,74</td> </tr> <tr> <td>25</td> <td>47</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,76</td> </tr> <tr> <td>37</td> <td>63,5</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,76</td> </tr> <tr> <td>50</td> <td>61,1</td> <td>13,5</td> <td>8,7<sup>+0,2</sup></td> <td>17</td> <td>2,75</td> </tr> </tbody> </table>		b	c	d	e	f	9	25	12	7,3 <sup>+0,2</sup>	14,7	2,74	15	33,3	12	7,3 <sup>+0,2</sup>	14,7	2,74	25	47	12	7,3 <sup>+0,2</sup>	14,7	2,76	37	63,5	12	7,3 <sup>+0,2</sup>	14,7	2,76	50	61,1	13,5	8,7 <sup>+0,2</sup>	17	2,75
	b	c	d	e	f																																			
9	25	12	7,3 <sup>+0,2</sup>	14,7	2,74																																			
15	33,3	12	7,3 <sup>+0,2</sup>	14,7	2,74																																			
25	47	12	7,3 <sup>+0,2</sup>	14,7	2,76																																			
37	63,5	12	7,3 <sup>+0,2</sup>	14,7	2,76																																			
50	61,1	13,5	8,7 <sup>+0,2</sup>	17	2,75																																			
<b>threaded flange M 3</b>	9 15 25 37 50	09 67 000 9987 09 67 000 9988 09 67 000 9989 09 67 000 9990 09 67 000 9991 <sup>2)</sup>		<table border="1"> <thead> <tr> <th></th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>25</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,74</td> </tr> <tr> <td>15</td> <td>33,3</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,74</td> </tr> <tr> <td>25</td> <td>47</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,76</td> </tr> <tr> <td>37</td> <td>63,5</td> <td>12</td> <td>7,3<sup>+0,2</sup></td> <td>14,7</td> <td>2,76</td> </tr> <tr> <td>50</td> <td>61,1</td> <td>13,5</td> <td>8,7<sup>+0,2</sup></td> <td>17</td> <td>2,75</td> </tr> </tbody> </table>		b	c	d	e	f	9	25	12	7,3 <sup>+0,2</sup>	14,7	2,74	15	33,3	12	7,3 <sup>+0,2</sup>	14,7	2,74	25	47	12	7,3 <sup>+0,2</sup>	14,7	2,76	37	63,5	12	7,3 <sup>+0,2</sup>	14,7	2,76	50	61,1	13,5	8,7 <sup>+0,2</sup>	17	2,75
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				<sup>2)</sup> only row separation 2.54 mm																																				
				<sup>3)</sup> for 2.54/2.84 mm row separation																																				

Board drillings  
angled  
solder pins

Mounting height



	b	c	d	e	f
9-37	25	12	7,3 <sup>+0,2</sup>	14,7	2,74
15	33,3	12	7,3 <sup>+0,2</sup>	14,7	2,74
25	47	12	7,3 <sup>+0,2</sup>	14,7	2,76
37	63,5	12	7,3 <sup>+0,2</sup>	14,7	2,76
50	61,1	13,5	8,7 <sup>+0,2</sup>	17	2,75

	b	g	h
9	25	4x(2,74) = 10,96	3x(2,74) = 8,22
15	33,3	7x(2,74) = 19,18	6x(2,74) = 16,44
25	47	12x(2,76) = 33,12	11x(2,76) = 30,36
37	63,5	18x(2,76) = 49,68	17x(2,76) = 46,92

	f
09 67 000 9911	13,2
09 67 000 9913	13,2
Mounting bracket	12,95

<sup>4)</sup>Not in conjunction with mounting bracket