

D-Sub – High Density subminiature D connectors

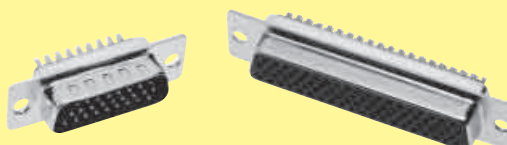
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Technical characteristics **03.02**

Connectors
with crimp terminal / crimp contacts **03.03**



Connectors
with straight solder cups **03.06**



Connectors
with angled solder pins **03.08**



Connectors
with straight solder pins **03.11**

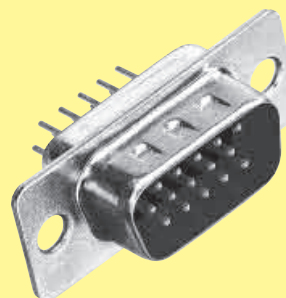
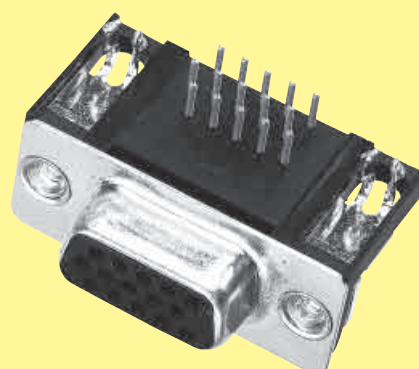


Number of contacts	15, 26, 44, 62, 78 UL recognized
Working current Stamped contacts	2 A max.
Test voltage $U_{r.m.s.}$	1 kV
Clearance and creepage	≥ 1.0 mm
Contact resistance Insulation resistance	≤ 20 m Ω $\geq 5 \times 10^9$ Ω
Temperature range	-55 °C ... + 105 °C The higher temperature limit includes the local ambient and heating effect of the contacts under load

Terminations	a) Solder pins $\varnothing$ 0.65 mm for P.C.B. holes $\varnothing$ 1.02 mm b) Solder pins, angled 90° $\varnothing$ 0.7 mm for P.C.B. holes $\varnothing$ 1.02 mm c) Crimp contacts 0.14 - 0.22 mm ² AWG 26 - 24 max. insulation $\varnothing$ 1.38 mm d) Solder cups AWG 22
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Materials	
Mouldings and hoods	Thermoplastic resin, glass-fibre filled (PBTP), UL 94-V0
Contacts	Copper alloy
Contact surface	
Contact zone	selectively gold-plated according to performance level ¹⁾
Metal shell	Plated steel

Mating force	
	15 way ≤ 46 N
	26 way ≤ 77 N
	44 way ≤ 127 N
	62 way ≤ 177 N
	78 way ≤ 222 N

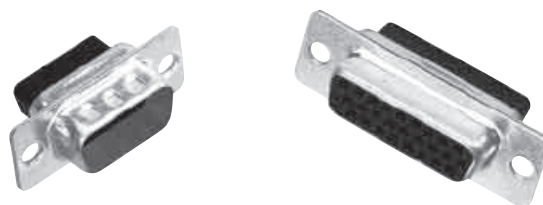


Number of contacts in the D-Sub standard/D-Sub high density range related to the shell size.

Shell size	D-Sub standard	D-Sub high density
1	9	15
2	15	26
3	25	44
4	37	62
5	50	78

Number of contacts

15-78

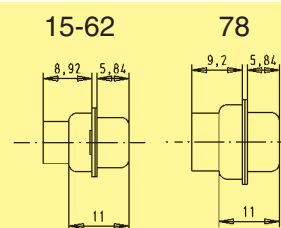
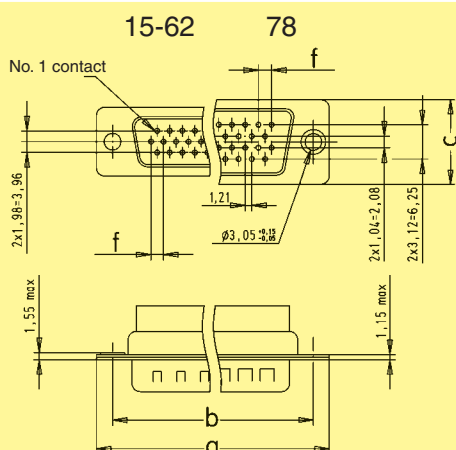


High density crimp terminal

Identification	No. of contacts	Part No.
Male connector Order contacts separately metal shell with dimples	15	09 56 100 5601
	26	09 56 200 5601
	44	09 56 300 5601
	62	09 56 400 5601
	78	09 56 500 5601
Female connector Order contacts separately metal shell	15	09 56 100 4701
	26	09 56 200 4701
	44	09 56 300 4701
	62	09 56 400 4701
	78	09 56 500 4701

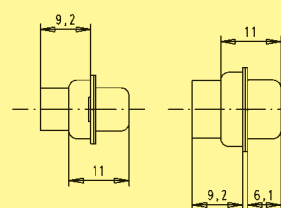
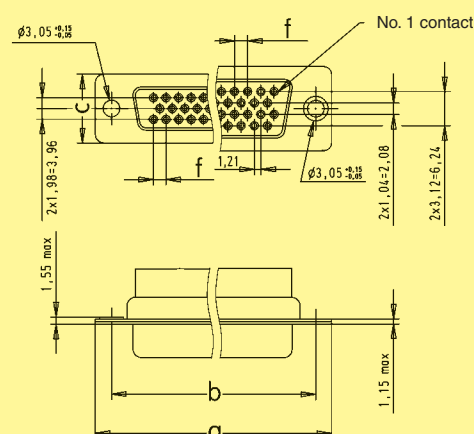
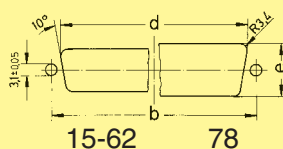
D-Sub - HD

Male connector



	a	b ± 0.13	c	f
15	30.9	25.0	12.5	2.29
26	39.2	33.3	12.5	2.29
44	53.1	47.0	12.5	2.29
62	69.4	63.5	12.5	2.41
78	67.0	61.1	15.4	2.41

Female connector

Panel cut out
for front/rear mountValues are taken from the
CECC 75301-802

Front mount

	b ± 0.13	d ± 0.2	e ± 0.2
15	25.0	22.2	12.3
26	33.3	30.5	12.3
44	47.0	44.3	12.3
62	63.5	60.7	12.3
78	61.1	58.3	15.1

Rear mount

	b ± 0.13	d ± 0.2	e ± 0.2
15	25.0	20.5	11.4
26	33.3	28.8	11.4
44	47.0	42.5	11.4
62	63.5	59.1	11.4
78	61.1	56.3	14.1

Dimensions in mm

Crimp contacts for high density connectors



Identification

Wire gauge
(mm²)

Part No.

Performance levels
Explanations see page 03.02
Other performance levels
on request



stamped male contacts

stamped female contacts

Performance level
3S4¹⁾Performance level
3S4¹⁾

500 pieces/box

0.14-0.22
AWG
26-24

stranded

09 56 000 8177

09 56 000 8175

09 56 000 8277

09 56 000 8275

500 pieces/reel
Unrolling left

09 56 000 8167

09 56 000 8165

09 56 000 8267

09 56 000 8265

10 000 pieces/reel
Unrolling left

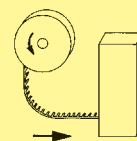
09 56 000 8157

09 56 000 8155

09 56 000 8257

09 56 000 8255

Unrolling direction

500 pieces/reel
Unrolling
left10 000 pieces/reel
Unrolling
left

for HARTING tools

Crimp contacts for high density connectors



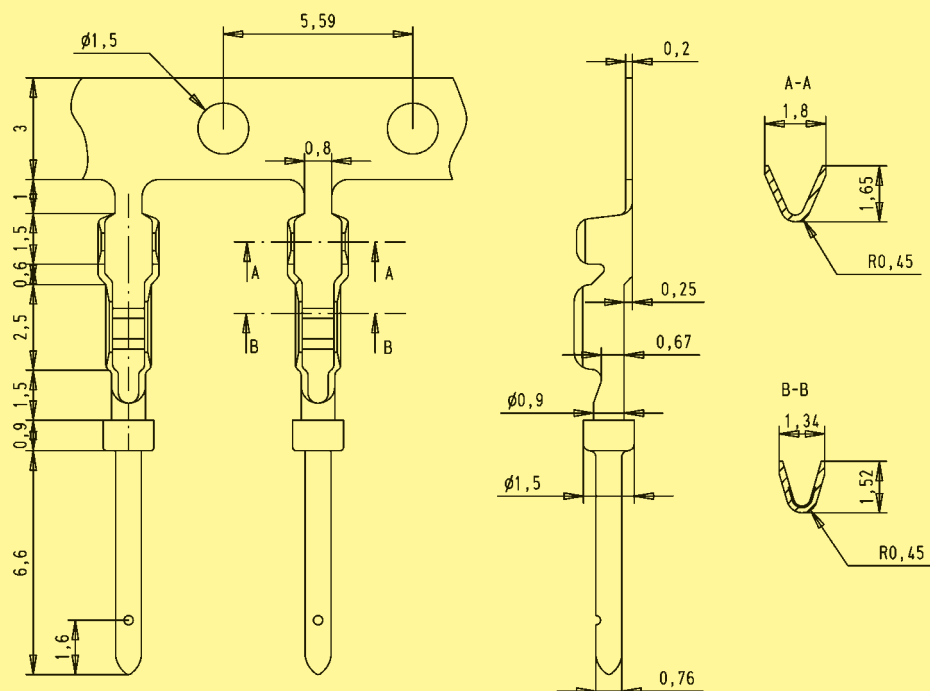
Identification

Drawing

Dimensions in mm

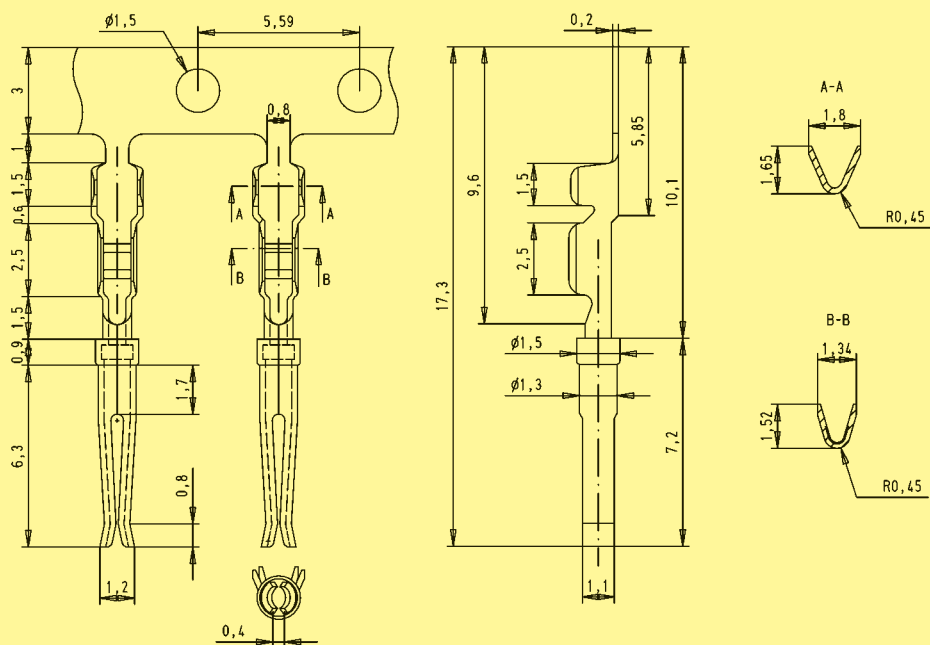
Male contacts

wire gauge AWG 26-24



Female contacts

wire gauge AWG 26-24



Number of contacts

15–78



High density with stamped solder cups, straight

Identification	No. of contacts	Part No.	
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3	S4¹⁾
Male connector metal shell with dimples	15 26 44 62 78	09 56 100 5604 09 56 200 5604 09 56 300 5604 09 56 400 5604 09 56 500 5604	09 56 100 5615 050 09 56 200 5615 050 09 56 300 5615 050 09 56 400 5615 050 09 56 500 5615 050
Female connector metal shell	15 26 44 62 78	09 56 100 4704 09 56 200 4704 09 56 300 4704 09 56 400 4704 09 56 500 4704	09 56 100 4715 050 09 56 200 4715 050 09 56 300 4715 050 09 56 400 4715 050 09 56 500 4715 050

¹⁾ S4: $\geq 0.76 \mu\text{m Au}$ (30 μinch)

15-78

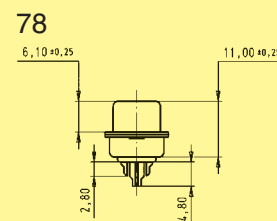
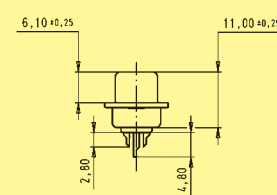
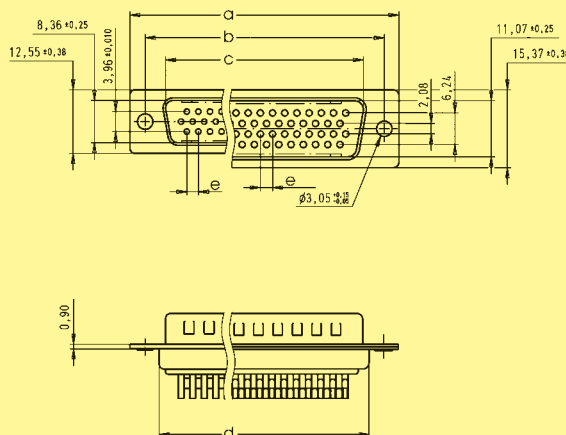


Identification

Dimensions in mm

15-62 78

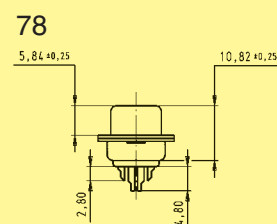
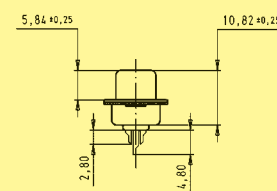
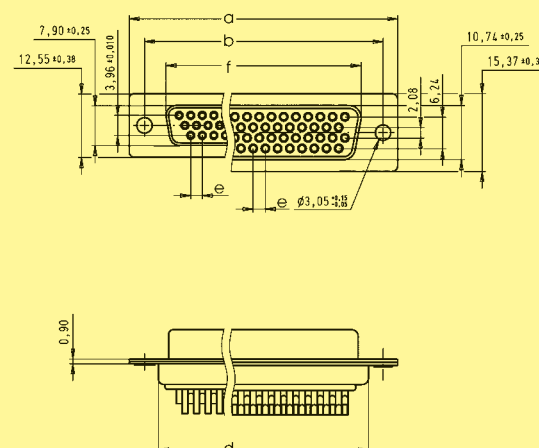
15-62



	a	b	c	d	e	f
15	30.89	24.99	16.92	19.28	2.29	16.33
26	39.10	33.32	25.25	27.51	2.29	24.66
44	53.09	47.04	38.96	41.30	2.29	38.38
62	69.40	63.50	55.25	57.71	2.42	54.84
78	66.93	61.11	52.81	55.32	2.42	52.43

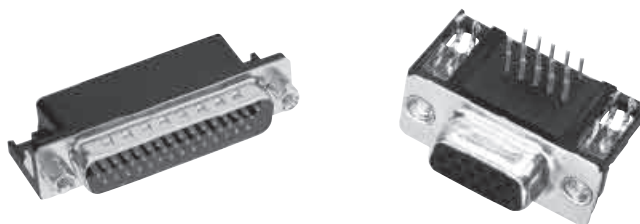
15-62 78

15-62



Number of contacts

15–78



High density with stamped solder pins, angled with grounding board locks

D-Sub - HD

Identification

No. of
contacts

Part No.

Performance levels
 Explanations see page 03.02
 Other performance levels on request

 Performance level
 3
S4¹⁾**Male connector**

metal shell with dimples

 15
 26
 44
 62

 09 56 162 781 .
 09 56 262 781 .
 09 56 362 781 .
 09 56 462 781 .

 09 56 162 581 .
 09 56 262 581 .
 09 56 362 581 .
 09 56 462 581 .
Female connector

metal shell

 15
 26
 44
 62
 78

 09 56 152 761 .
 09 56 252 761 .
 09 56 352 761 .
 09 56 452 761 .
 09 56 552 761 .

 09 56 152 561 .
 09 56 252 561 .
 09 56 352 561 .
 09 56 452 561 .
 09 56 552 561 .

 Please insert digit for flange thread or
 fitted female screw locks

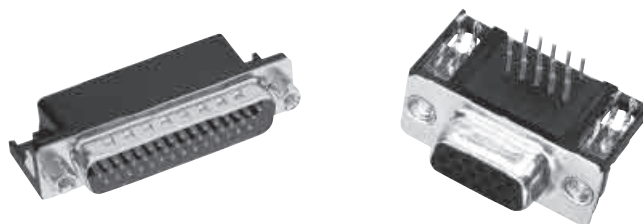
4-40 UNC ► 2

fitted screw locks 4-40 UNC ► 3

¹⁾ S4: ≥ 0.76 µm Au (30 µinch)

Number of contacts

15-78



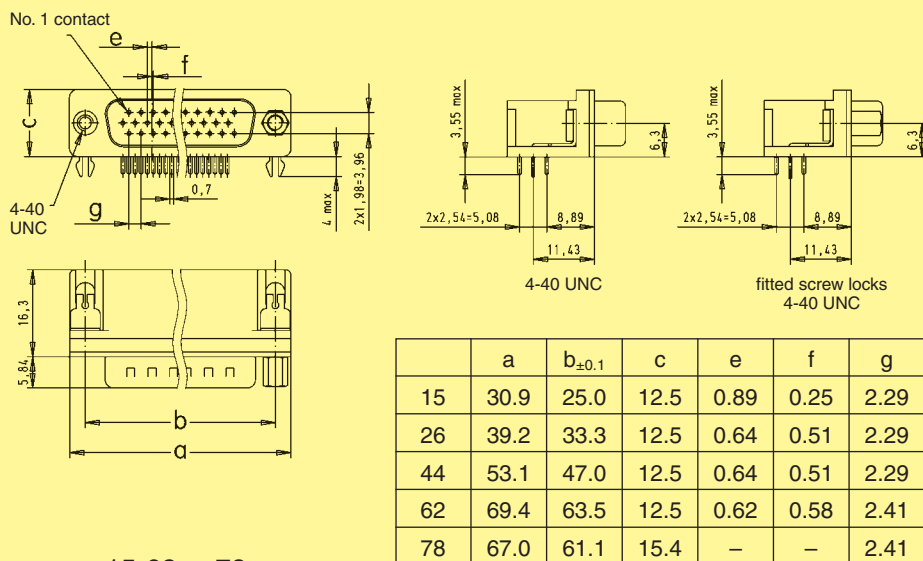
High density with stamped solder pins, angled with grounding board locks

Identification

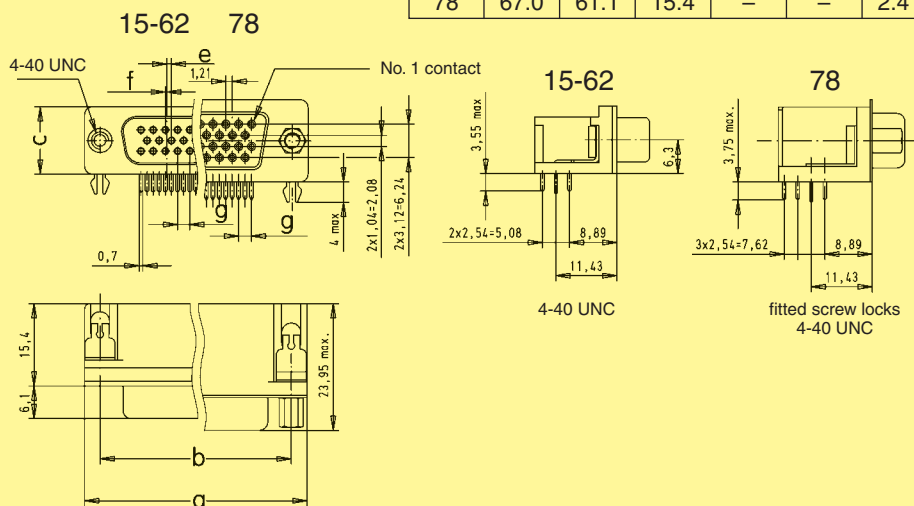
Drawing

Dimensions in mm

Male connector

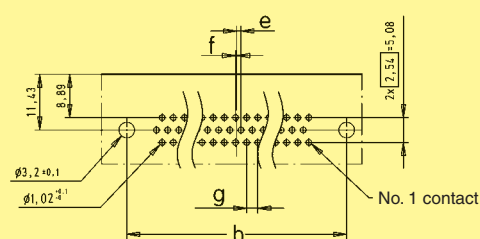


Female connector

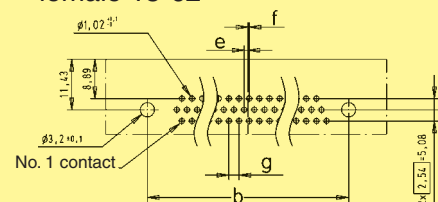


Board drillings

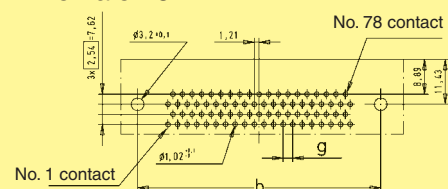
male



female 15-62



female 78



Number of contacts

15–78



High density with stamped solder pins, straight

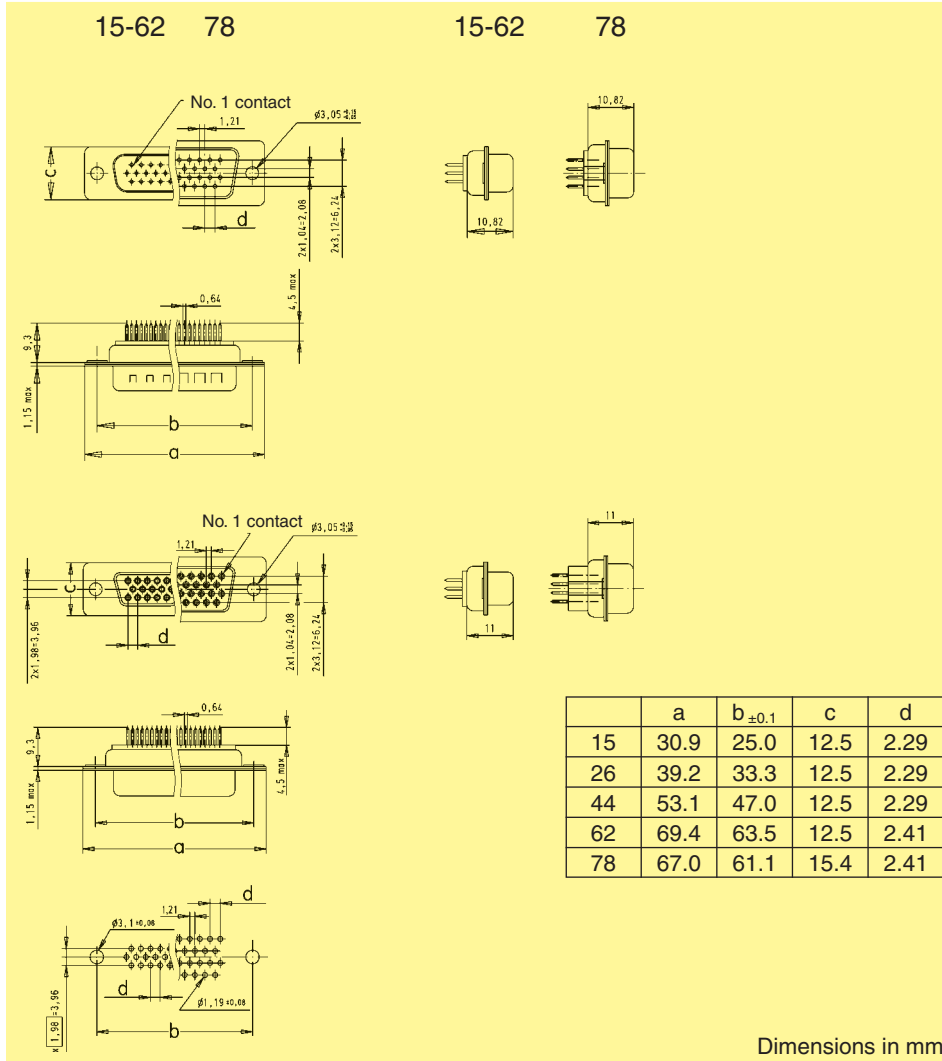
Identification	No. of contacts	Part No.
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3
		S4¹⁾
Male connector metal shell with dimples	15 26 44 62 78	09 56 161 7700 09 56 261 7700 09 56 361 7700 09 56 461 7700 09 56 561 7700
Female connector metal shell	15 26 44 62 78	09 56 151 5700 09 56 251 5700 09 56 351 5700 09 56 451 5700 09 56 551 5700

D-Sub - HD

Male connector

Female connector

Board drillings

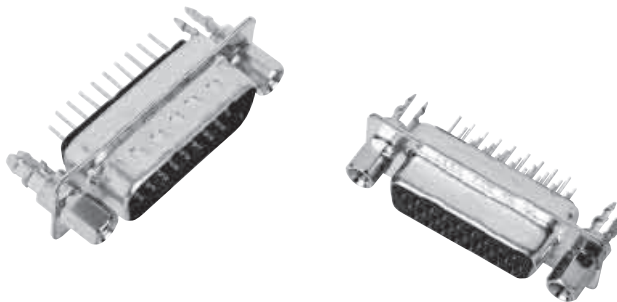


Dimensions in mm

¹⁾ S4: $\geq 0.76 \mu\text{m Au}$ (30 μinch)

Number of contacts

15–78



High density with stamped solder pins, straight with grounding board locks

D-Sub - HD

Identification

No. of
contacts

Part No.

Performance levels

 Explanations see page 03.02
 Other performance levels on request
Performance level
3S4¹⁾

Male connector

metal shell with dimples

15
26
44
62
7809 56 161 771 .
09 56 261 771 .
09 56 361 771 .
09 56 461 771 .
09 56 561 771 .09 56 161 571 .
09 56 261 571 .
09 56 361 571 .
09 56 461 571 .
09 56 561 571 .

Female connector

metal shell

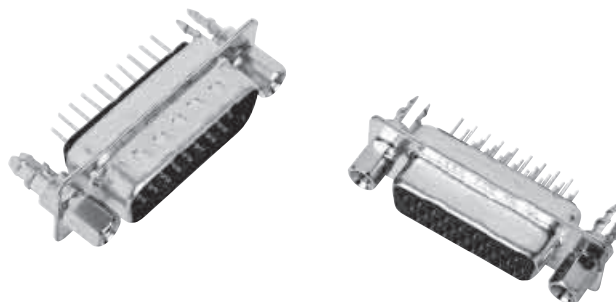
15
26
44
62
7809 56 151 751 .
09 56 251 751 .
09 56 351 751 .
09 56 451 751 .
09 56 551 751 .09 56 151 551 .
09 56 251 551 .
09 56 351 551 .
09 56 451 551 .
09 56 551 551 .Please insert digit for flange thread or
fitted female screw locks

4-40 UNC ► 2

fitted screw locks 4-40 UNC ► 3

¹⁾ S4: $\geq 0.76 \mu\text{m Au}$ (30 μinch)

15-78

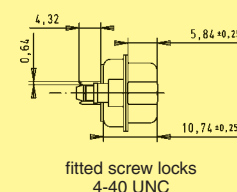
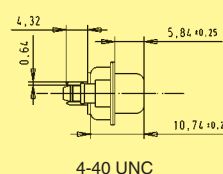
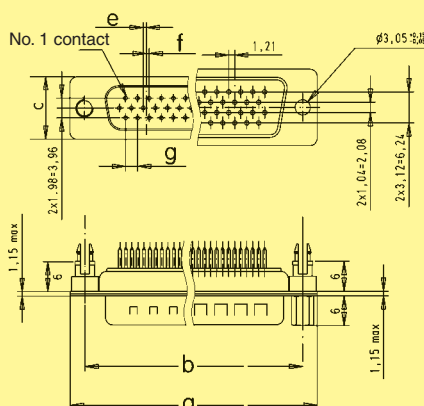


Identification

Dimensions in mm

15-62 78

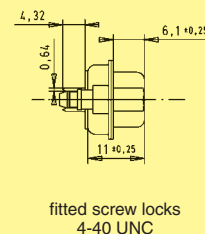
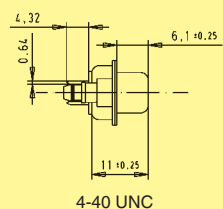
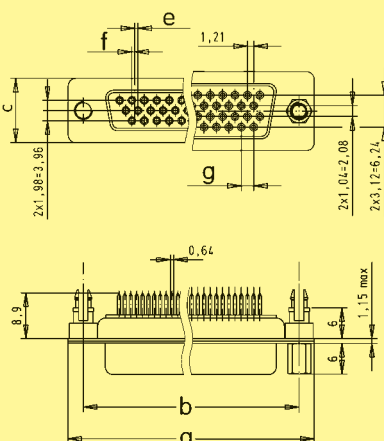
15-62 78



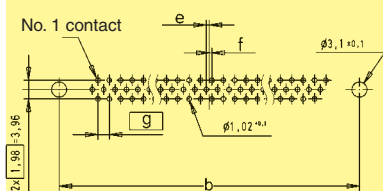
	a	b ± 0.1	c	e	f	g
15	30.9	25.0	12.5	0.89	0.25	2.29
26	39.2	33.3	12.5	0.64	0.51	2.29
44	53.1	47.0	12.5	0.64	0.51	2.29
62	69.4	63.5	12.5	0.62	0.58	2.41
78	67.0	61.1	15.4	—	—	2.41

Female connector

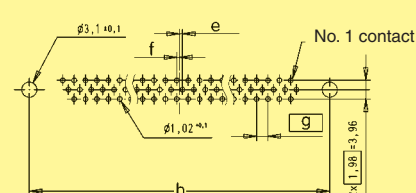
15-62 78



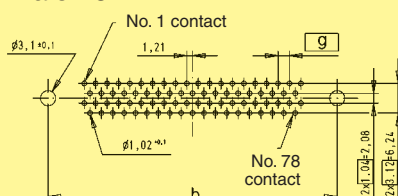
male 15-62



female 15-62



male 78



female 78

