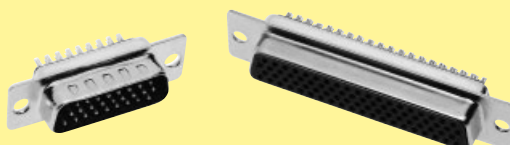


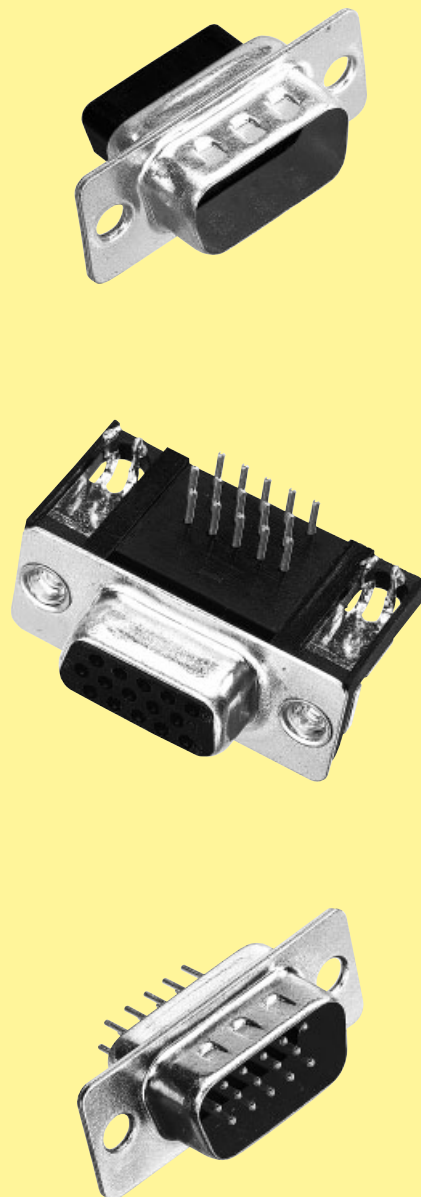
D-Sub – High Density subminiature D connectors

Page

Technical characteristics

03.02Connectors
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**Cables
and cable assemblies**see chapter 40**

Number of contacts	15, 26, 44, 62, 78
Working current Stamped contacts	2 A max.
Test voltage $U_{r.m.s.}$	1 kV
Clearance and creepage	≥ 1.0 mm
Contact resistance	< 20 m Ω
Insulation resistance	< 25 m Ω (for right angled versions) $\geq 5 \times 10^9$ Ω
Temperature range	-40 °C ... + 85 °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 $\varnothing$ 1.0 mm b) Crimp contacts AWG 26 - 24 0.14 - 0.22 mm ² max. insulation $\varnothing$ 1.38 mm c) Solder cups AWG 24
Materials	
Mouldings and hoods	Thermoplastic resin, glass-fibre filled (PBTP), UL 94-V0
Contacts	Copper alloy
Contact surface	
Contact zone	selectively 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



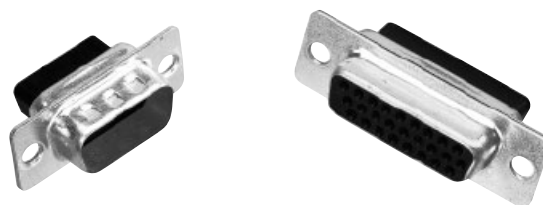
Number of contacts in the D-Sub standard/D-Sub high density range related to the shell size.

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

¹⁾ Performance level 3, 50 mating cycles, no gas test
S4, plating = 0.76 μ m (30 pinch) Au or PdNi equivalent

Number of contacts

15–78

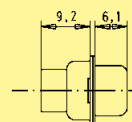
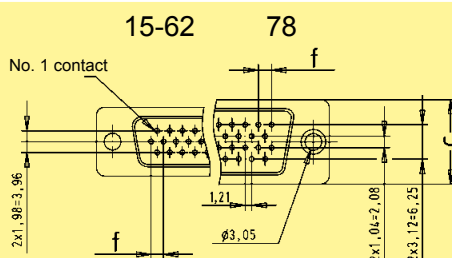


High density crimp terminal

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

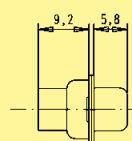
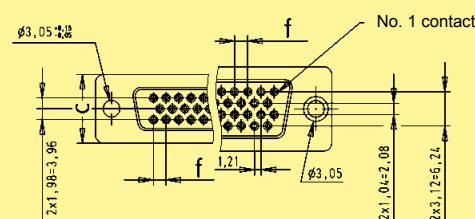
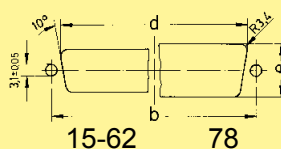
D-Sub-HD

Male connector



	a	b	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

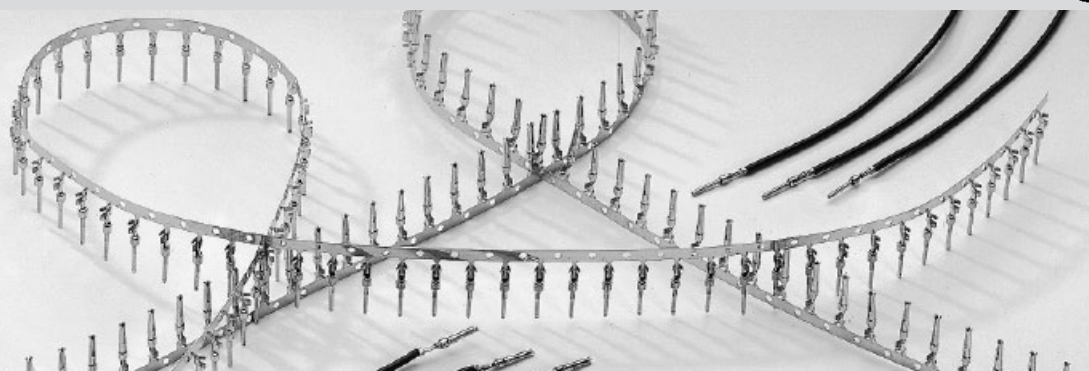
	b ± 0.13	d ± 0.2	e ± 0.2
15	25.0	22.2	12.3
26	33.3	30.5	12.3
44	47.0	44.3	12.3
62	63.5	60.7	12.3
78	61.1	58.3	15.1

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

AWG
26-24
0.14-0.22
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

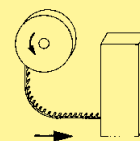
09 56 000 8157

09 56 000 8155

09 56 000 8257

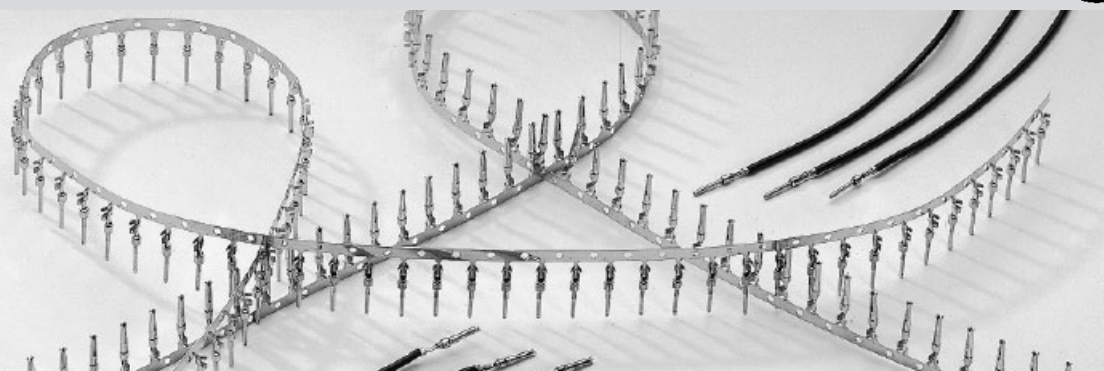
09 56 000 8255

Unrolling direction

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

for HARTING tools

Crimp contacts for high density connectors



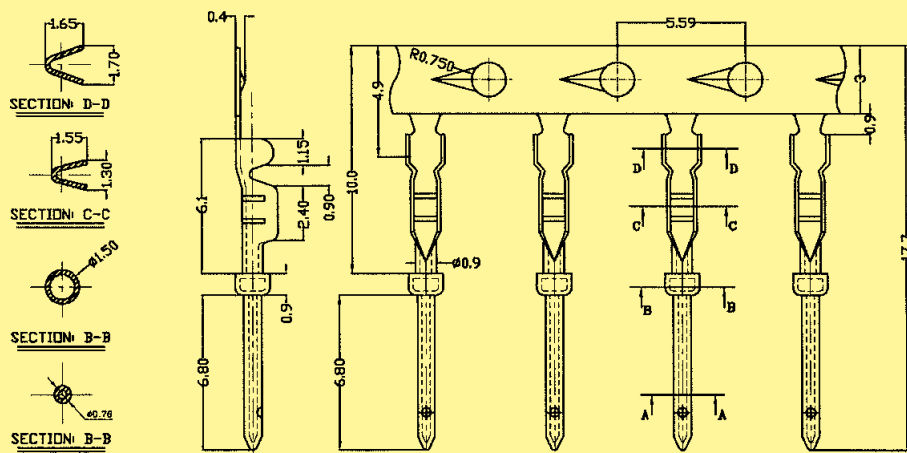
Identification

Drawing

Dimensions in mm

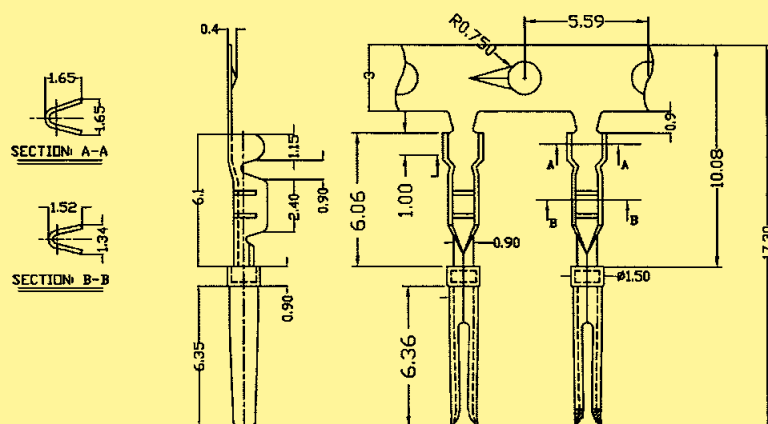
Male contacts

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.	Part No.
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3	S4¹⁾
Male connector metal shell with dimples			
Female connector metal shell			
	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
	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

Number of contacts

15–78



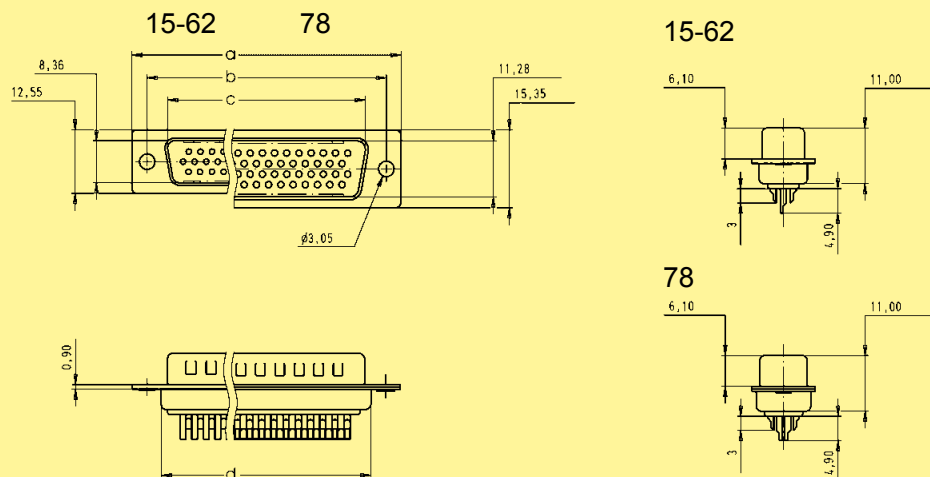
High density with stamped solder cups, straight

Identification

Drawing

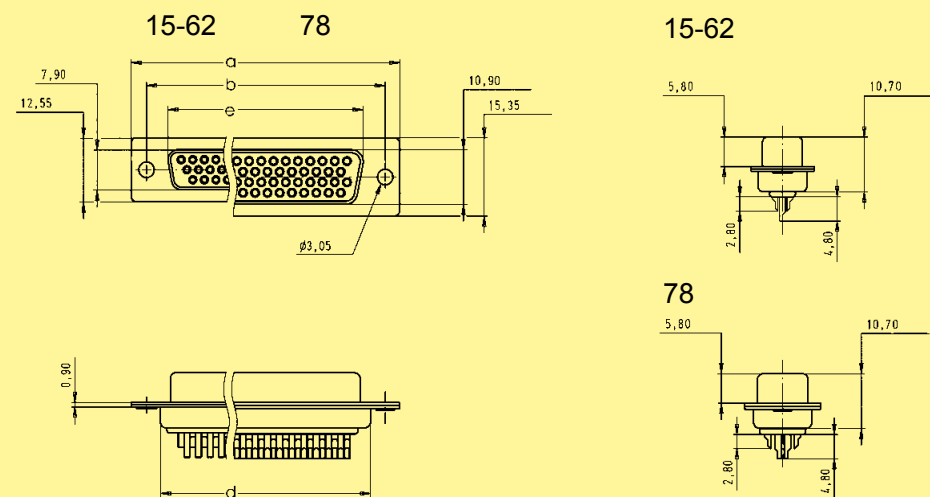
Dimensions in mm

Male connector



	a	b	c	d	e
15	30.81	25.00	16.92	19.20	16.33
26	39.20	33.30	25.25	27.70	24.70
44	53.05	47.00	38.96	41.10	38.40
62	69.40	63.50	55.42	57.30	54.80
78	67.00	61.00	52.81	55.10	52.20

Female connector



Number of contacts

15–78



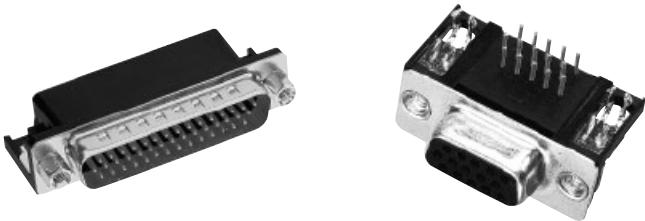
High density with stamped solder pins, angled with grounding board locks

Identification	No. of contacts	Part No.	
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3	
Male connector metal shell with dimples		S4¹⁾	
Female connector metal shell			
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 (30 µinch) Au or PdNi equivalent

Number of contacts

15–78



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

Identification

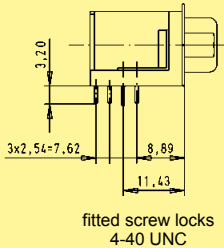
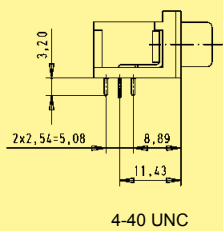
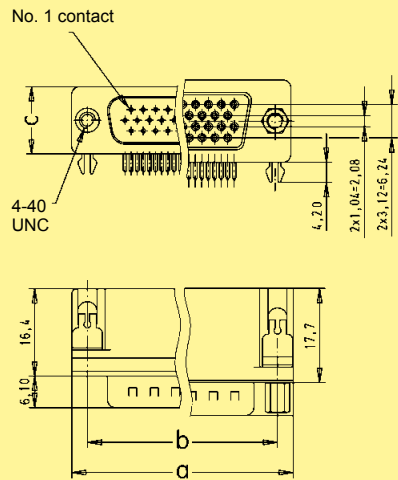
Drawing

Dimensions in mm

Male connector

15-62 78

15-62 78

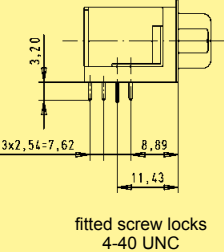
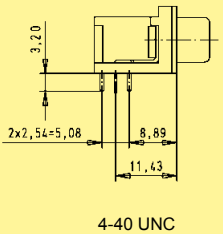
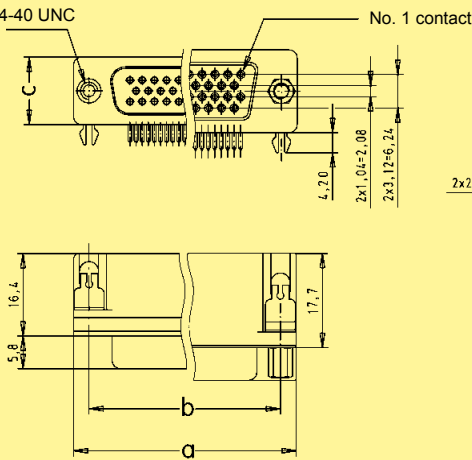


	a	b ± 0.1	c
15	30.81	24.99	12.55
26	39.20	33.30	12.55
44	53.05	47.04	12.55
62	69.40	63.50	12.55
78	67.00	61.00	15.37

Female connector

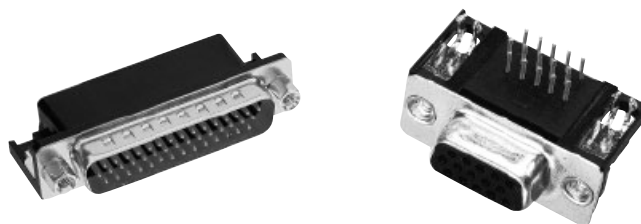
15-62 78

15-62 78



Number of contacts

15–78



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

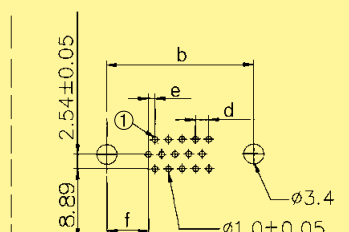
Identification

Drawing

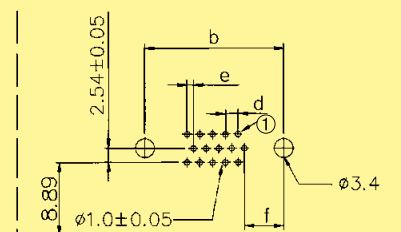
Dimensions in mm

Board drillings

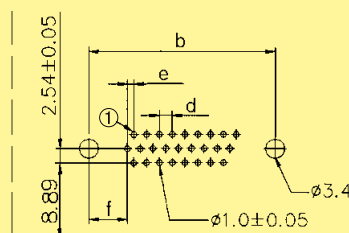
male 15



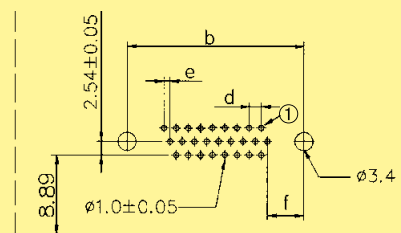
female 15



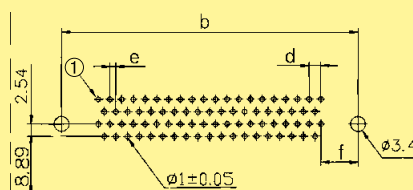
male 26-62



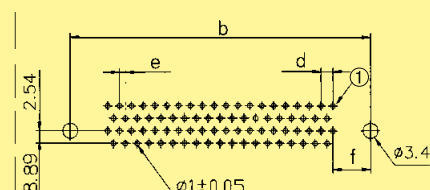
female 26-62



male 78



female 78

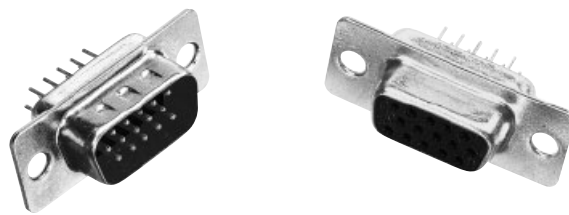


① = No. 1 contact

	$b_{\pm 0.1}$	d	e	f
15	24.99	2.29	1.145	7.04
26	33.30	2.29	1.145	6.88
44	47.04	2.29	1.145	6.88
62	63.50	2.41	1.205	7.00
78	61.00	2.41	1.205	7.65

Number of contacts

15–78



High density with stamped solder pins, straight

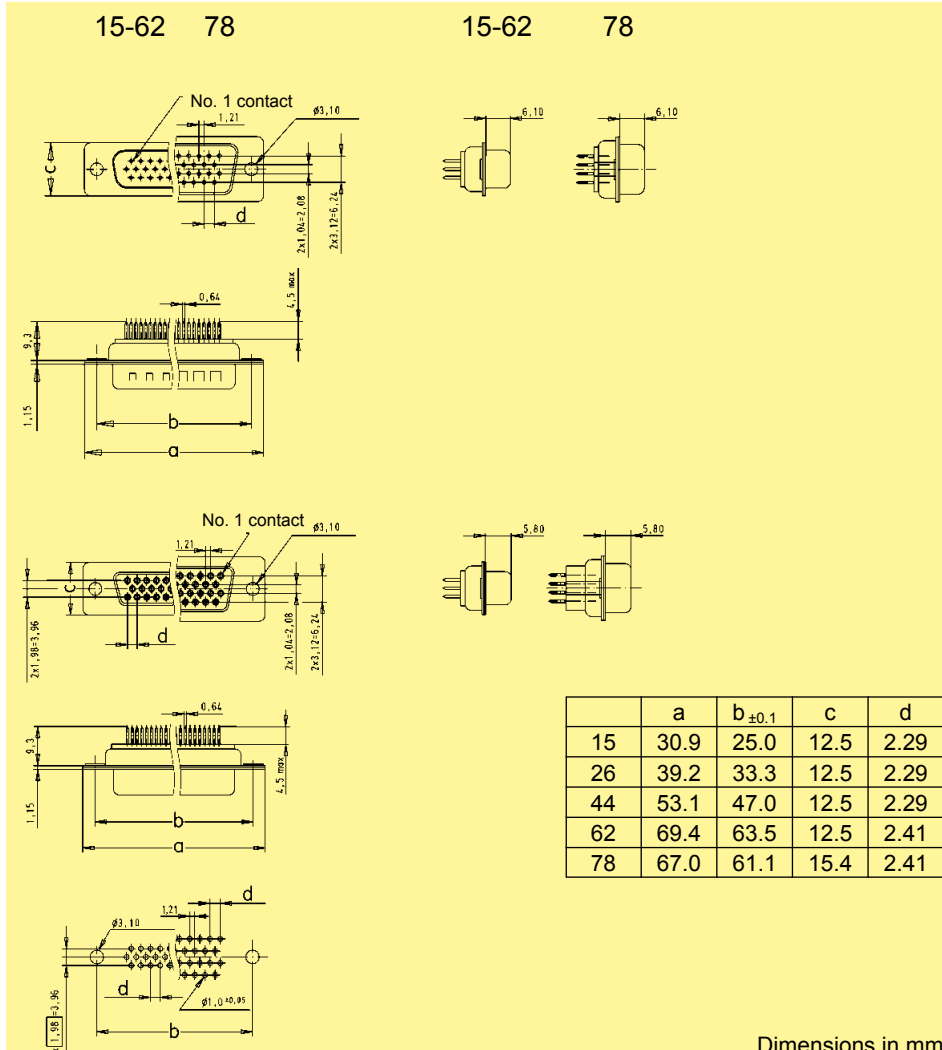
Identification	No. of contacts	Part No.
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3 S4¹⁾
Male connector metal shell with dimples	15 26 44 62 78	09 56 161 7700 09 56 261 7700 09 56 361 7700 09 56 461 7700 09 56 561 7700
Female connector metal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

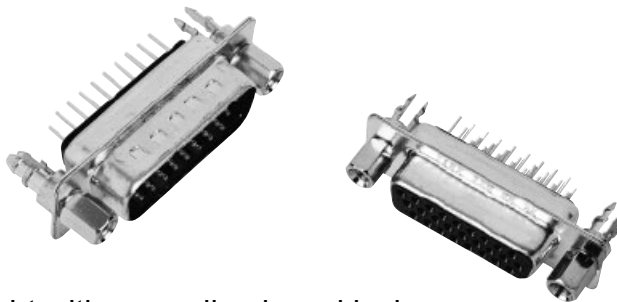


Dimensions in mm

¹⁾ S4 = 0.76 µm (30 µinch) Au or PdNi equivalent

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

3

S4¹⁾

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

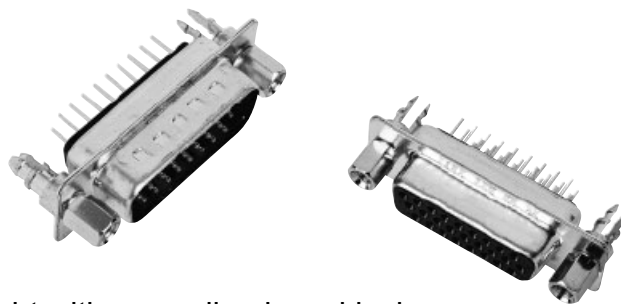
4-40 UNC ► 2

fitted screw locks 4-40 UNC ► 3

¹⁾ S4 = 0.76 µm (30 µinch) Au or PdNi equivalent

Number of contacts

15–78



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

Identification

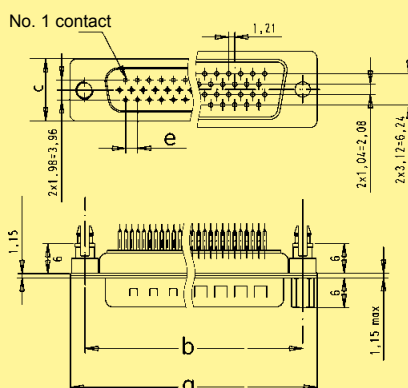
Drawing

Dimensions in mm

Male connector

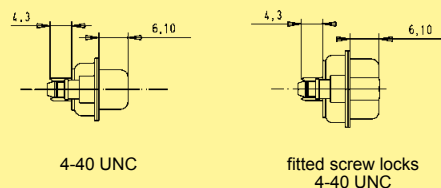
15-62

78



15-62

78

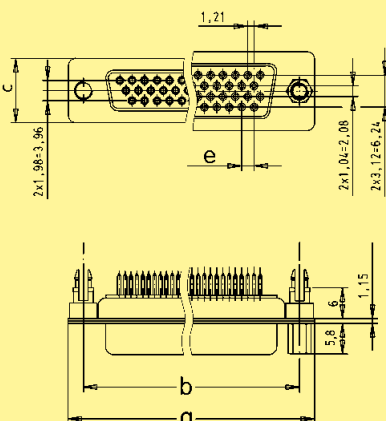


	a	b±0.1	c	e
15	30.9	25.0	12.5	2.29
26	39.2	33.3	12.5	2.29
44	53.1	47.0	12.5	2.29
62	69.4	63.5	12.5	2.41
78	67.0	61.1	15.4	2.41

Female connector

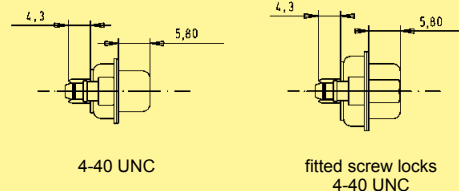
15-62

78



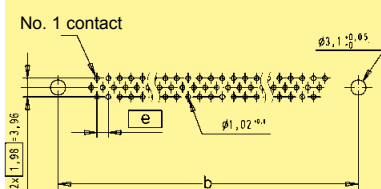
15-62

78

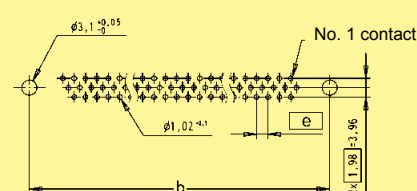


Board drillings

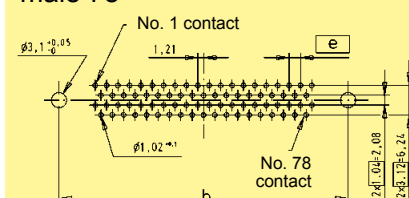
male 15-62



female 15-62



male 78



female 78

