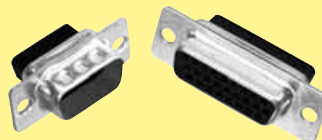


D-Sub – High Density subminiature D connectors

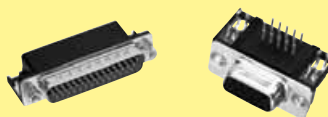
Page

Technical characteristics **03.02**

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



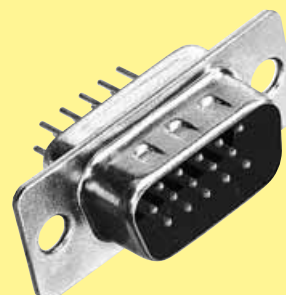
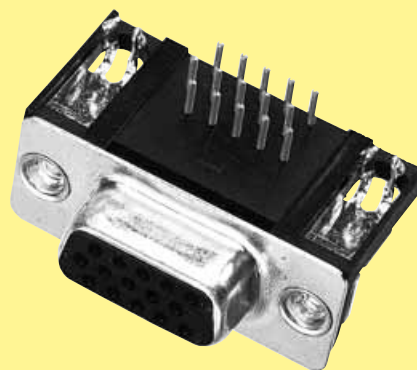
Connectors with angled solder pins **03.06**



Connectors with straight solder pins **03.09**



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
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 \leq 46 N 26 way \leq 77 N 44 way \leq 127 N 62 way \leq 177 N 78 way \leq 222 N



¹⁾ Performance level 3, 50 mating cycles, no gas test
S4, plating ≥ 0.76 μ m Au (30 μ inch)

Number of contacts

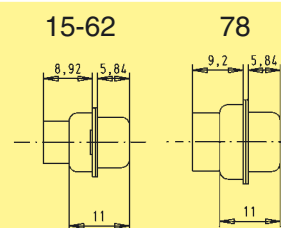
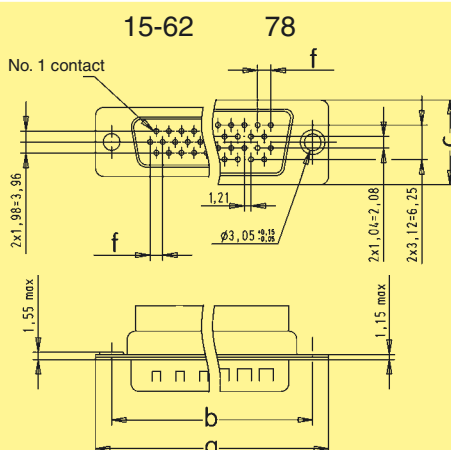
15-78



High density crimp terminal

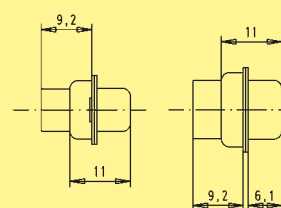
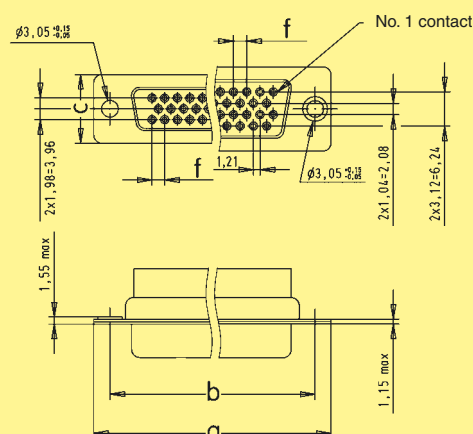
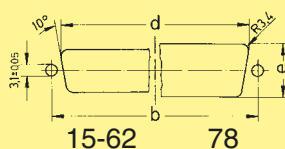
Identification	No. of contacts	Part No.
Male connector Order contacts separately metal shell with dimples	15	09 56 100 5601
	26	09 56 200 5601
	44	09 56 300 5601
	62	09 56 400 5601
	78	09 56 500 5601
Female connector Order contacts separately metal shell	15	09 56 100 4701
	26	09 56 200 4701
	44	09 56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

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 75 301-802

Front mount

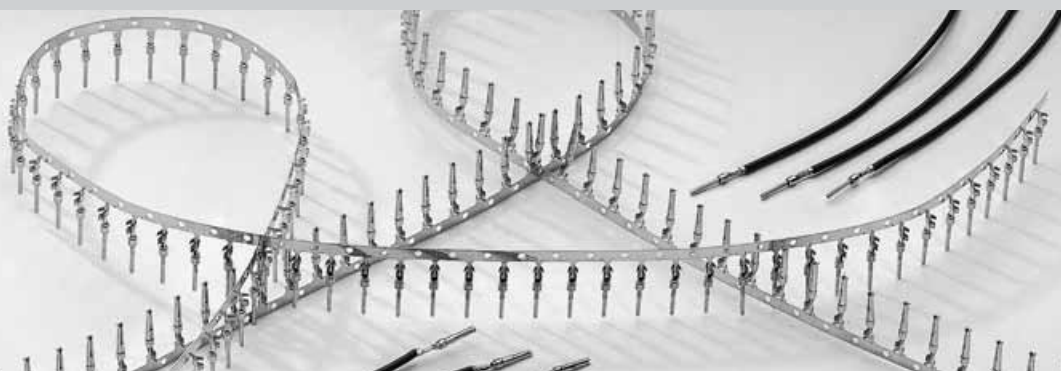
	b ± 0.13	d ± 0.2	e ± 0.2
15	25.0	22.2	12.3
26	33.3	30.5	12.3
44	47.0	44.3	12.3
62	63.5	60.7	12.3
78	61.1	58.3	15.1

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
3

S4¹⁾

Performance level
3

S4¹⁾

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

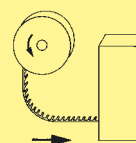
09 56 000 8257

09 56 000 8255

Unrolling direction



500 pieces/reel
Unrolling
left

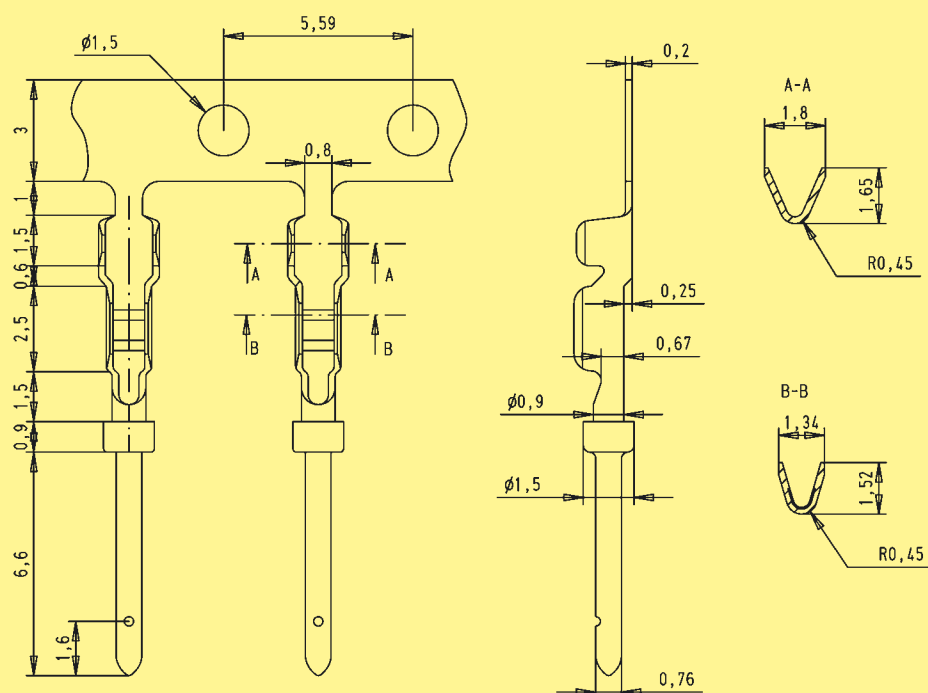


10 000 pieces/reel
Unrolling
left

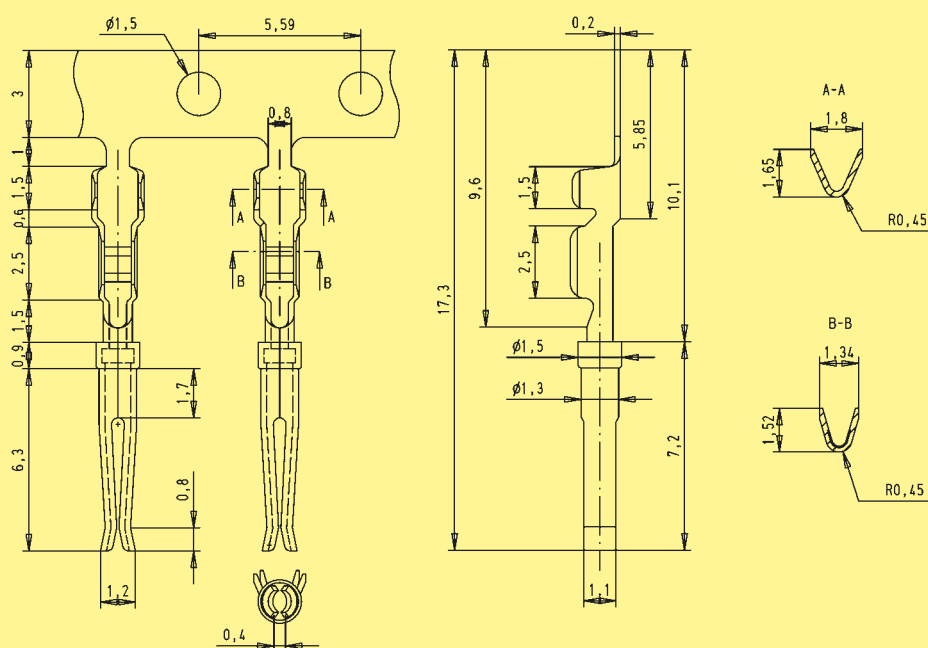
for HARTING tools

Dimensions in mm

wire gauge AWG 26-24

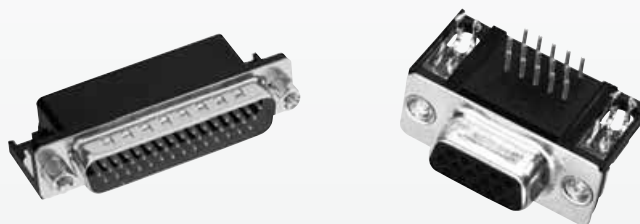


wire gauge AWG 26-24



Number of contacts

15–78



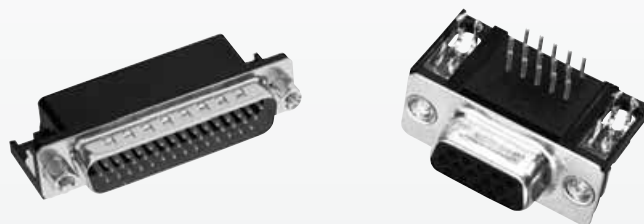
High density with stamped solder pins, angled with grounding board locks

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

Number of contacts

15-78



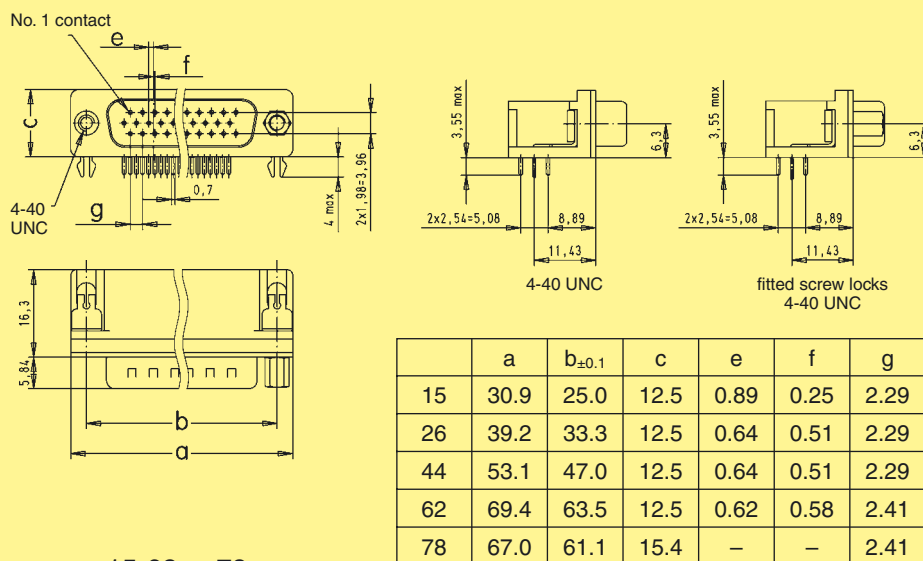
High density with stamped solder pins, angled with grounding board locks

Identification

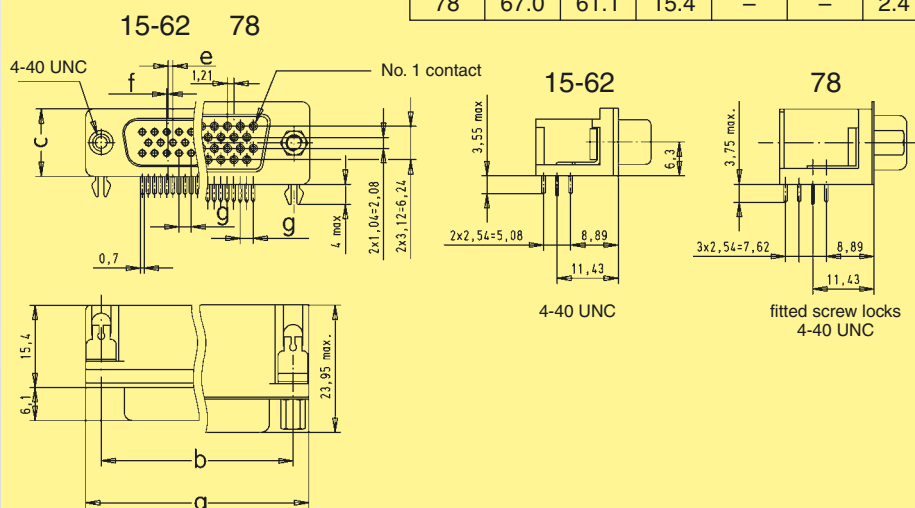
Drawing

Dimensions in mm

Male connector

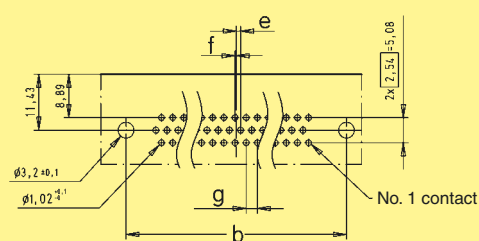


Female connector

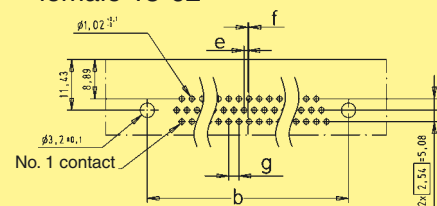


Board drillings

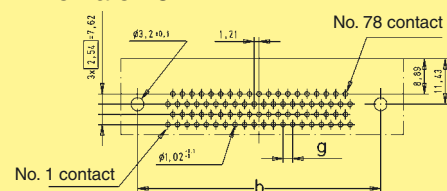
male



female 15-62



female 78

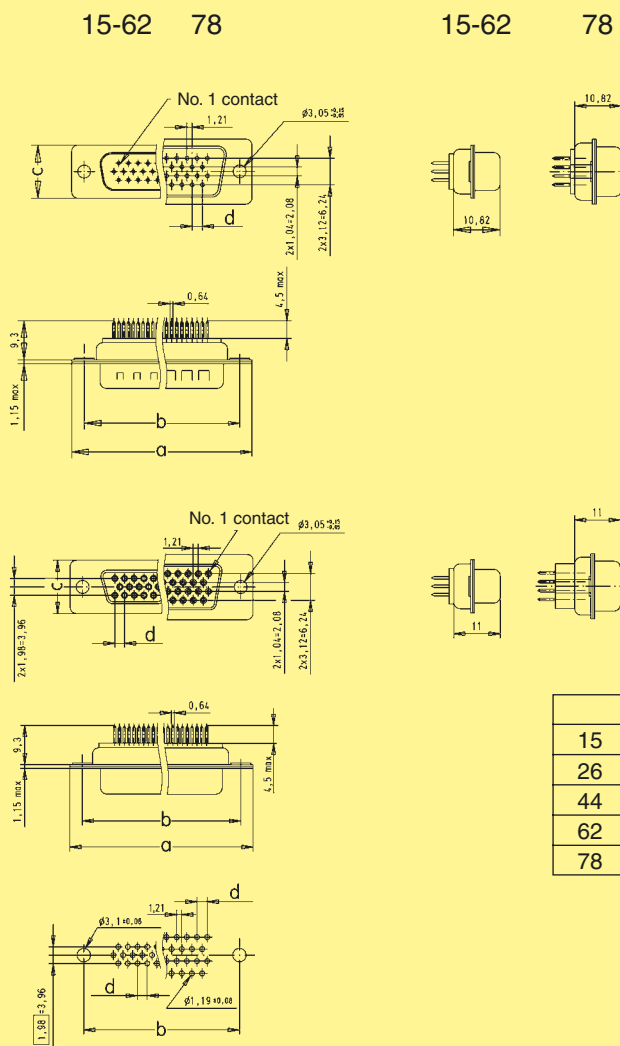


15-78



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	09 56 161 7700	09 56 161 5700
	26	09 56 261 7700	09 56 261 5700
	44	09 56 361 7700	09 56 361 5700
	62	09 56 461 7700	09 56 461 5700
	78	09 56 561 7700	09 56 561 5700
Female connector metal shell	15	09 56 151 7500	09 56 151 5500
	26	09 56 251 7500	09 56 251 5500
	44	09 56 351 7500	09 56 351 5500
	62	09 56 451 7500	09 56 451 5500
	78	09 56 551 7500	09 56 551 5500

Female connector



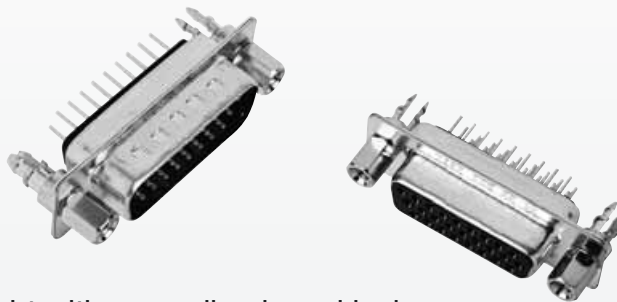
	a	b _{±0.1}	c	d
15	30.9	25.0	12.5	2.29
26	39.2	33.3	12.5	2.29
44	53.1	47.0	12.5	2.29
62	69.4	63.5	12.5	2.41
78	67.0	61.1	15.4	2.41

Board drillings

Dimensions in mm

Number of contacts

15–78



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

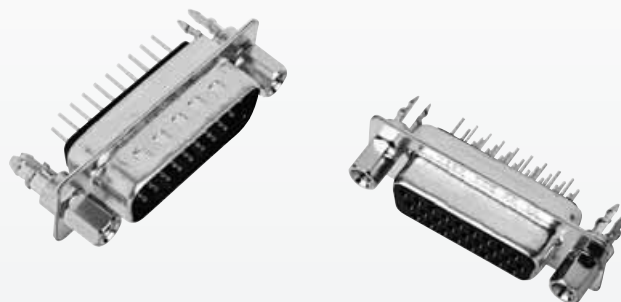
Identification	No. of contacts	Part No.	
Performance levels Explanations see page 03.02 Other performance levels on request		Performance level 3	
Male connector metal shell with dimples		S4¹⁾	
Female connector metal shell			
Please insert digit for flange thread or fitted female screw locks 4-40 UNC ► 2 fitted screw locks 4-40 UNC ► 3			

D-Sub - HD

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

Number of contacts

15-78



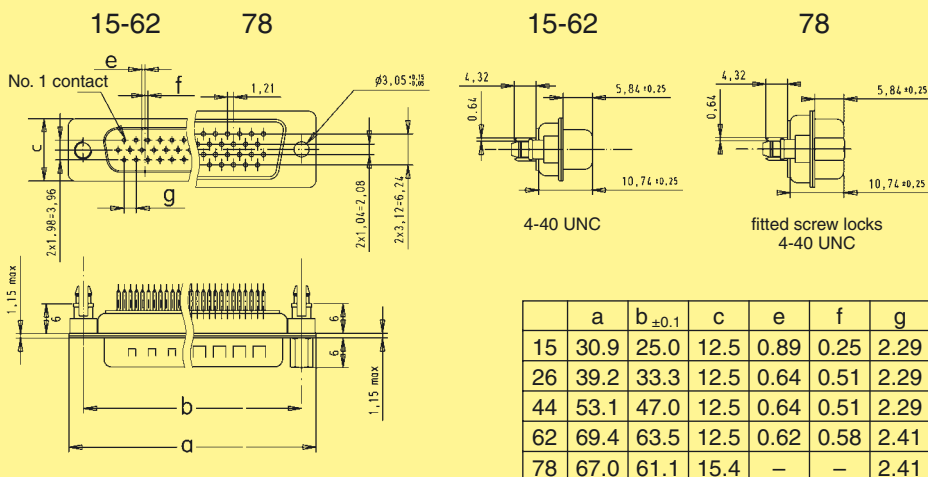
High density with stamped solder pins, straight with grounding board locks

Identification

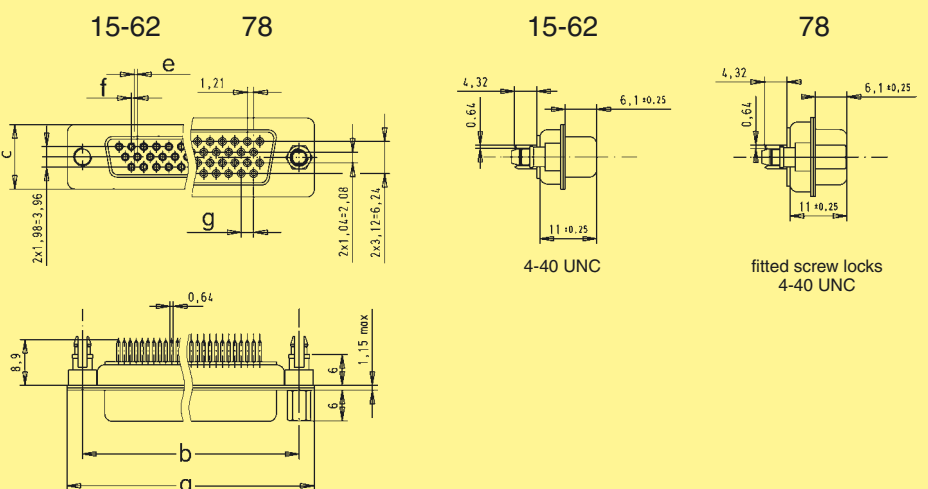
Drawing

Dimensions in mm

Male connector

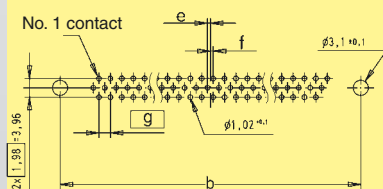


Female connector

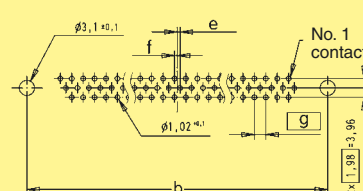


Board drillings

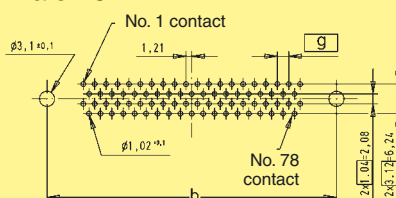
male 15-62



female 15-62



male 78



female 78

