

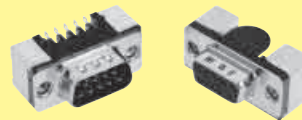
Surface Mount Technology (SMT) board connectors

Page

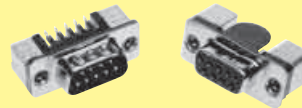
***D-Sub – SMT***

Technical characteristics ..... **21.02**

Standard versions ..... **21.04**

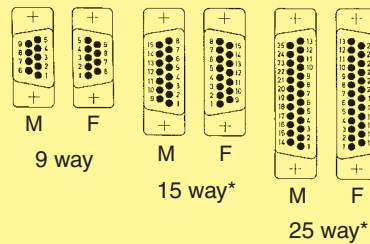


Low-profile versions ..... **21.06**



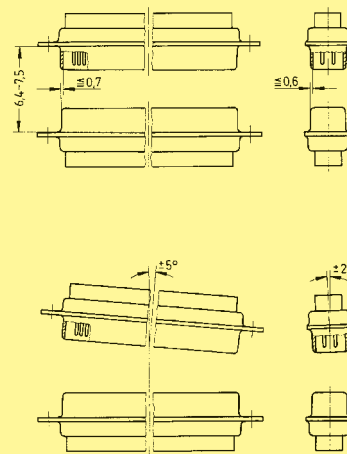
Number of contacts	9, 15*, 25*
Working current	5 A
Test voltage $U_{r.m.s.}$	1 kV
Clearance and creepage	$\geq 1.0$ mm
Contact resistance	$< 25$ m $\Omega$
Insulation resistance	$< 5$ G $\Omega$
Temperature range	as per profile JEDEC 020 D
Terminations	Solder pins for P.C.B. pads
<b>Materials</b>	
Mouldings	LCP black UL 94-V0
Contacts	Phosphorus bronze
Grounding die	Zamac
Shell	Steel
<b>Contact surface</b>	
Contact zone	selectively gold-plated according to performance level <sup>1)</sup>
Grounding die	Pure tin
Shell	Nickel plated
<b>Insertion and withdrawal force</b>	
– insertion max. per connector:	30 N
– withdrawal min. per connector:	3.3 N

Contact arrangement View from termination side



M = Male connector  
F = Female connector

Mating conditions as per DIN 41 652



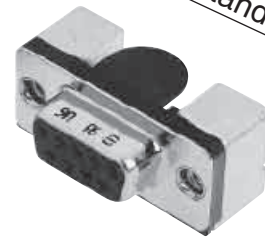
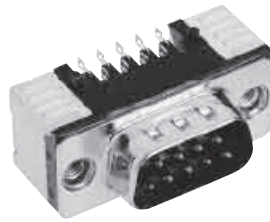
SMT technology

<sup>1)</sup> Performance level 3, 50 mating cycles, no gas test  
Performance level 2 as per CECC 75 301-802, 250 mating cycles, 4 days 4 mixed gas test – IEC 60512  
Performance level 1 as per CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test – IEC 60512  
\* Available on request



Number of contacts

# 9\*



Standard Versions

SMT stamped solder pins, angled with grounding board locks

Identification	No. of contacts	Part No.					
<b>Performance levels</b> Explanations see page 21.02 Other performance levels on request		Performance level 3		Performance level 2		Performance level 1	
<b>Male connector</b> metal shell with dimples	9	09 55 166 78 ... 741		09 55 166 68 ... 741		09 55 166 38 ... 741	
<b>Female connector</b> metal shell	9	09 55 156 76 ... 741		09 55 156 66 ... 741		09 55 156 36 ... 741	
Please insert digit for flange thread or fitted female screw locks							
M3 ▶ 11 4-40 UNC ▶ 12 fitted screw locks M3 ▶ 33 fitted screw locks 4-40 UNC ▶ 13							

SMT technology

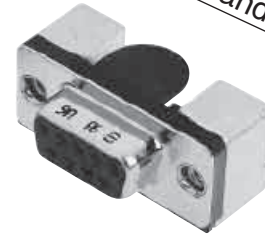
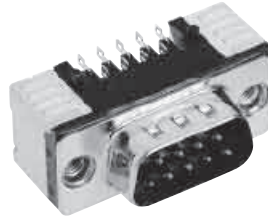
\* 15 and 25 way connectors are available on request  
 Connector dimensions see page 21.05. Mating conditions see page 21.02.

# D-Sub



Number of contacts

# 9\*



Standard Versions

SMT stamped solder pins, angled with grounding board locks

Identification

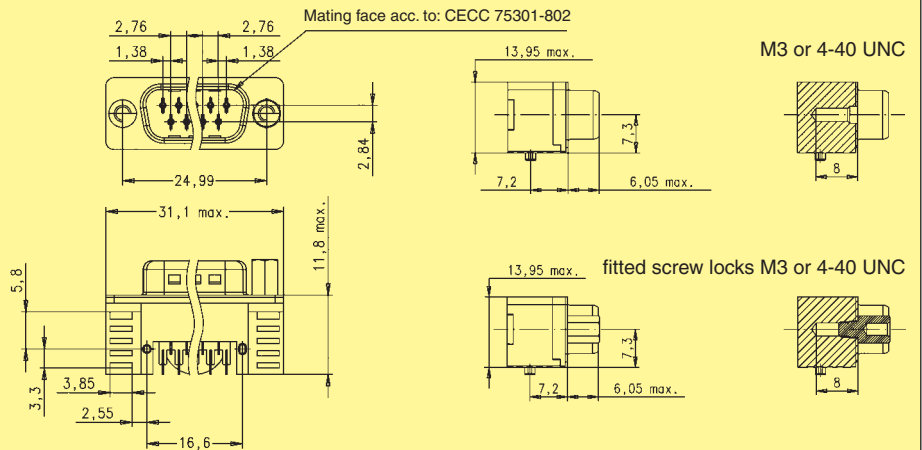
Drawing

Dimensions in mm

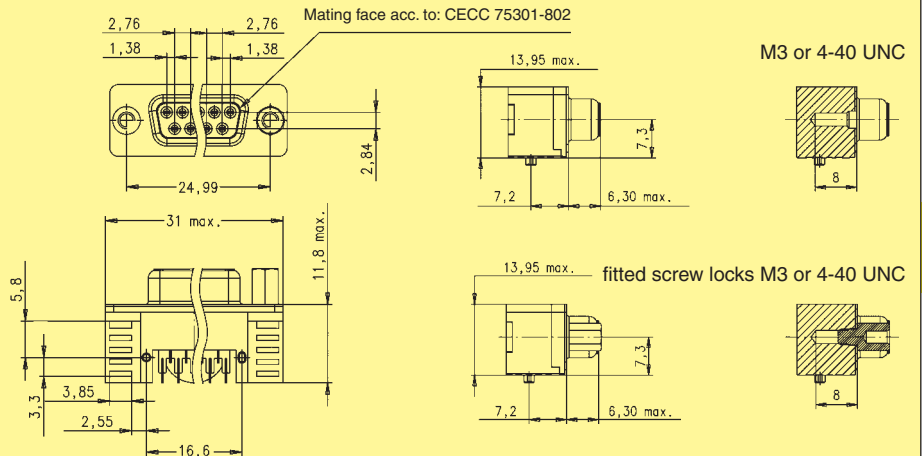
Male connector

M3 or 4-40 UNC

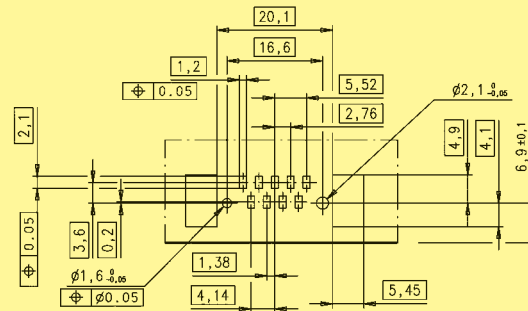
fitted screw locks M3 or 4-40 UNC



Female connector

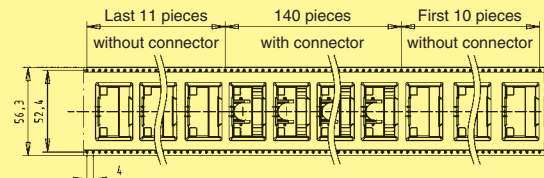


pcb layout



Packaging

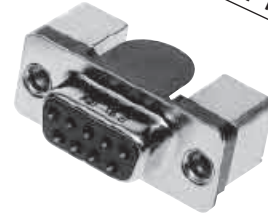
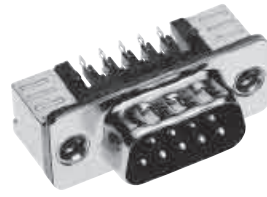
(1 reel = 140 pieces)  
Reel diameter = 330 mm



SMT technology

Number of contacts

# 9\*



Low-Profile Versions

SMT stamped solder pins, angled with grounding board locks

Identification	No. of contacts	Part No.					
<b>Performance levels</b> Explanations see page 21.02 Other performance levels on request		Performance level 3		Performance level 2		Performance level 1	
<b>Male connector</b> metal shell with dimples	9	09 55 166 78 ... 741		09 55 166 68 ... 741		09 55 166 38 ... 741	
<b>Female connector</b> metal shell	9	09 55 156 76 ... 741		09 55 156 66 ... 741		09 55 156 36 ... 741	
Please insert digit for flange thread or fitted female screw locks							
M3 ▶ 15 4-40 UNC ▶ 16 fitted screw locks M3 ▶ 18 fitted screw locks 4-40 UNC ▶ 17							

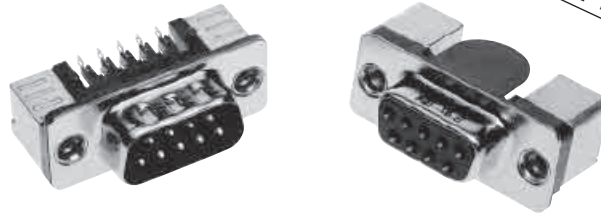
SMT technology

\* 15 and 25 way connectors are available on request  
 Connector dimensions see page 21.07. Mating conditions see page 21.02.

Number of contacts

# 9\*

Low-Profile Versions



SMT stamped solder pins, angled with grounding board locks

Identification

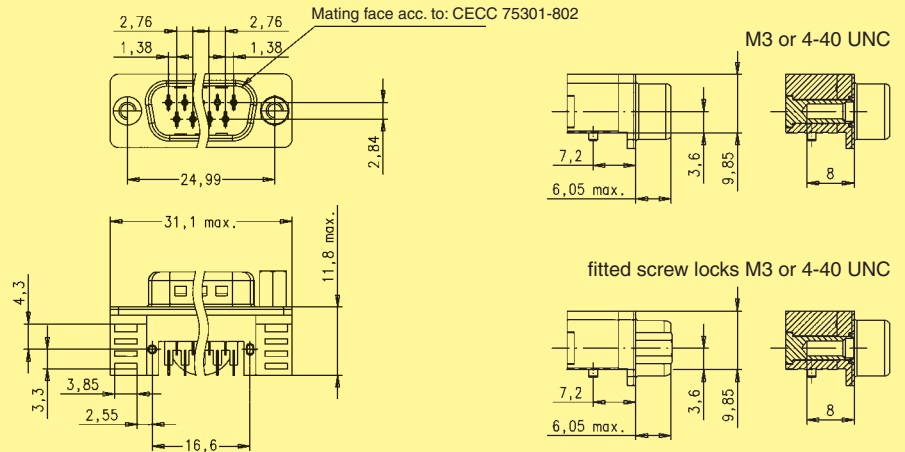
Drawing

Dimensions in mm

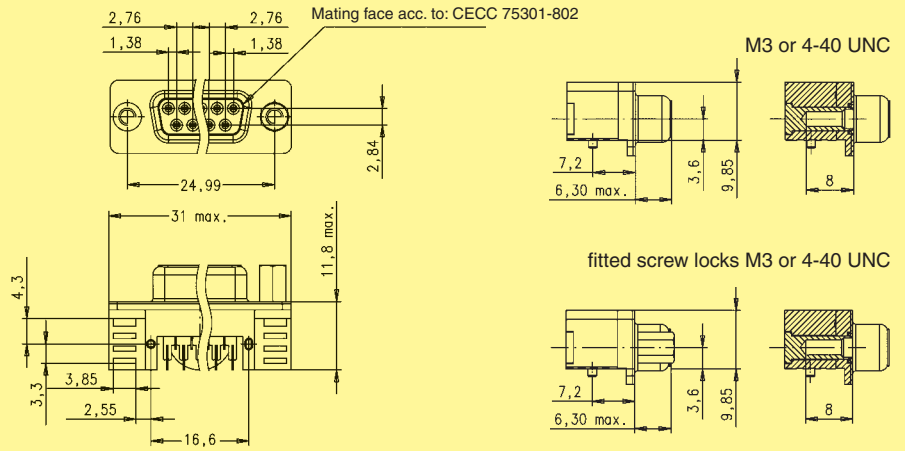
Male connector

M3 or 4-40 UNC

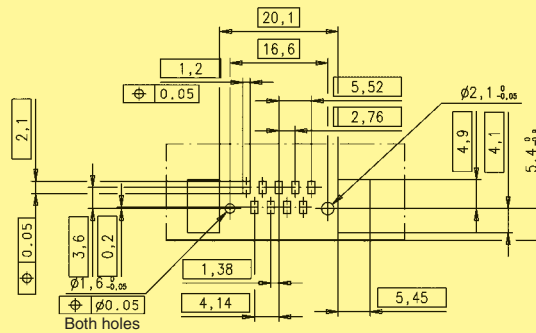
fitted screw locks M3 or 4-40 UNC



Female connector

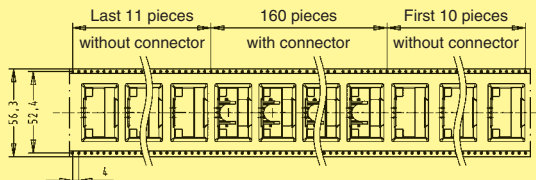


pcb layout



Packaging

(1 reel = 160 pieces)  
Reel diameter = 330 mm



SMT technology

