

Surface Mount Technology (SMT) board connectors

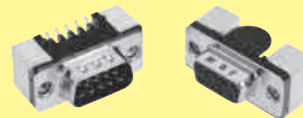
Page

D-Sub – SMT

Technical characteristics

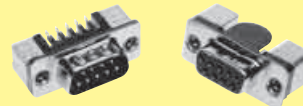
21.02

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 ≥ 1.0 mm

Contact resistance < 25 m Ω
Insulation resistance < 5 G Ω

Temperature range as per profile JEDEC 020 D

Terminations Solder pins for P.C.B. pads

Materials

Mouldings LCP black
UL 94-V0

Contacts Phosphorus bronze

Grounding die Zamac

Shell Steel

Contact surface

Contact zone selectively gold-plated
according to performance
level¹⁾

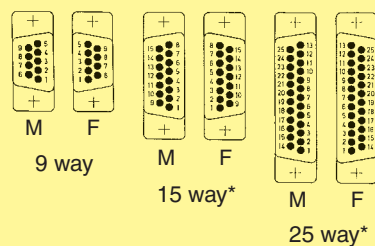
Grounding die Pure tin

Shell Nickel plated

Insertion and withdrawal force

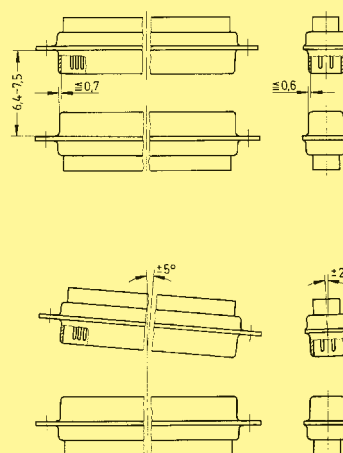
– insertion max. per connector: 30 N
– withdrawal min. per connector: 3.3 N

Contact arrangement View from termination side



M = Male connector
F = Female connector

Mating conditions as per DIN 41 652



¹⁾ Performance level 3, 50 mating cycles, no gas test

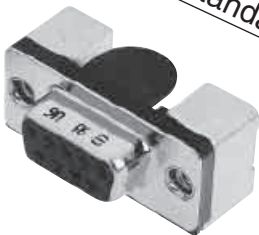
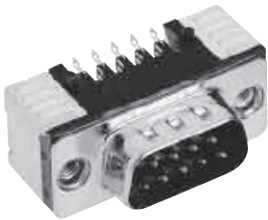
Performance level 2 as per CECC 75 301-802, 250 mating cycles, 4 days 4 mixed gas test – IEC 60 512

Performance level 1 as per CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test – IEC 60 512

* Available on request

Number of contacts

9*



Standard Versions

SMT stamped solder pins, angled with grounding board locks

SMT
technology

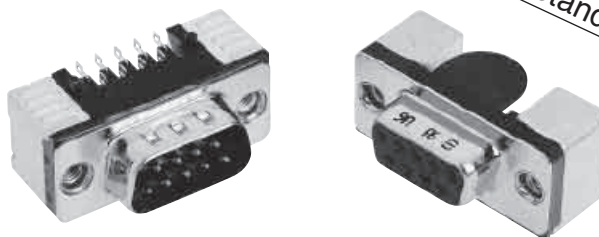
Identification	No. of contacts	Part No.					
Performance levels Explanations see page 21.02 Other performance levels on request		Performance level 3		Performance level 2		Performance level 1	
Male connector metal shell with dimples	9	09 55 166 78 .. 741		09 55 166 68 .. 741		09 55 166 38 .. 741	
Female connector 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							

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

Number of contacts

9*

Standard Versions



SMT stamped solder pins, angled with grounding board locks

Identification

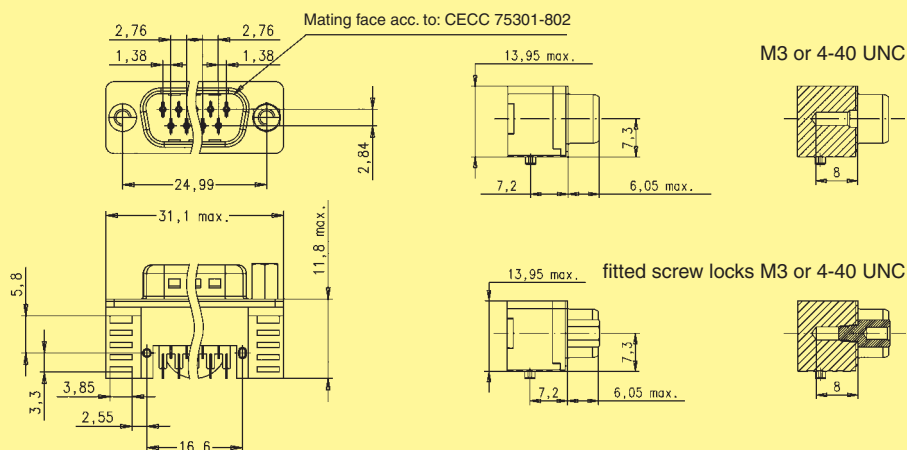
Drawing

Dimensions in mm

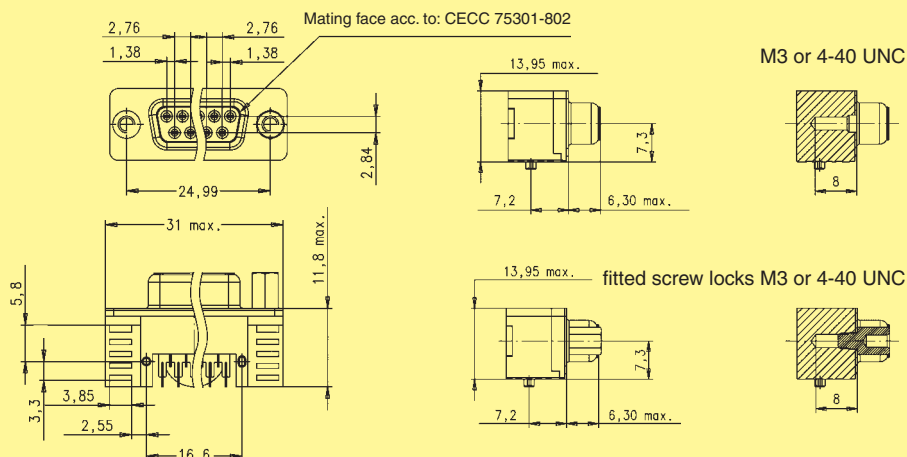
Male connector

M3 or 4-40 UNC

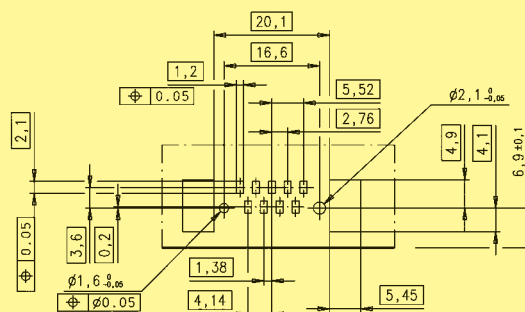
fitted screw locks M3 or 4-40 UNC



Female connector

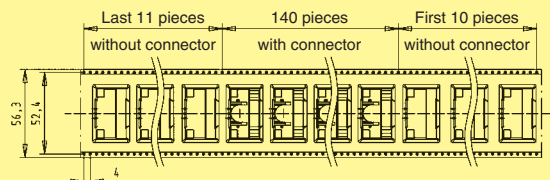


pcb layout



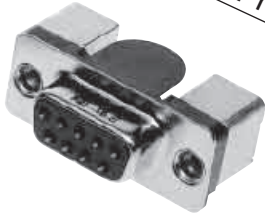
Packaging

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



Number of contacts

9*



Low-Profile Versions

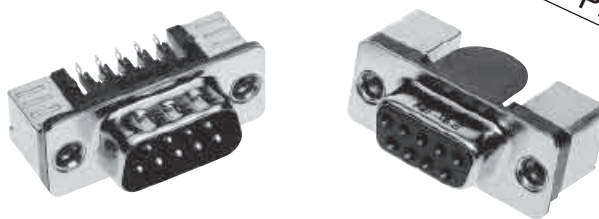
SMT stamped solder pins, angled with grounding board locks

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Identification	No. of contacts	Part No.					
Performance levels Explanations see page 21.02 Other performance levels on request		Performance level 3		Performance level 2		Performance level 1	
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Female connector 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 <div>M3 ▶ 15 4-40 UNC ▶ 16 fitted screw locks M3 ▶ 18 fitted screw locks 4-40 UNC ▶ 17</div>							

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

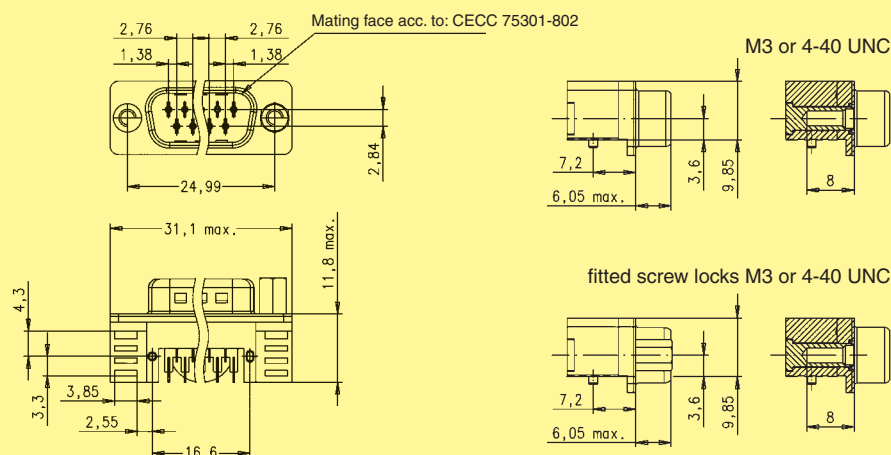
9*



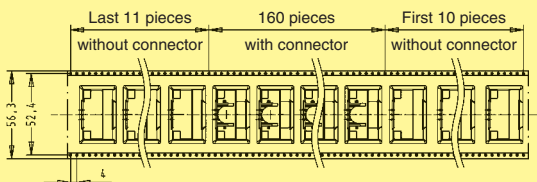
Low-Profile Versions

Identification Drawing Dimensions in mm

M3 or 4-40 UNC fitted screw locks M3 or 4-40 UNC

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



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