

Number of contacts	160
Contact spacing (mm)	2.54
Working current	1 A at 70 °C and all contacts are loaded

see current carrying capacity chart

Clearance and creepage distances*

minimal clearance and creepage distance ¹⁾		distance in mm	
		rows a, b, c	rows z, d
between two rows	clearance	1.2	1.2
	creepage	1.2	1.2
between two contacts (in a row)	clearance	1.2	1.0
	creepage	1.2	1.0

¹⁾ valid for mated and unmated connectors

Working voltage

The working voltage also depends on the clearance and creepage dimensions of the pcb itself and the associated wiring according to the safety regulations of the equipment Explanations see chapter 00

Test voltage $U_{r.m.s.}$	1 kV
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Contact resistance

rows a, b, c	$\leq 20 \text{ m}\Omega$
rows z, d	$\leq 30 \text{ m}\Omega$

Insulation resistance	$\geq 10^{10} \Omega$ acc. to IEC 60512-2
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Temperature range	- 55 °C ... + 125 °C
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Electrical termination

Male connector	Solder pins for pcb termination $\varnothing 1.0 \pm 0.1 \text{ mm}$ according to IEC 60 326-3
Female connector	Solder pins for pcb termination $\varnothing 1.0 \pm 0.1 \text{ mm}$ according to IEC 60 326-3 Compliant press-in terminations
Diameter of pcb plated through holes	0.94 - 1.09 mm
pcb thickness	$\geq 1.6 \text{ mm}$
Recommended pcb holes for press-in technology	Drilled hole : $1.15^{-0.03} \text{ mm}$ Cu : 25 - 50 μm Sn : 5 - 15 μm

Insertion and withdrawal force	$\leq 160 \text{ N}$
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Materials

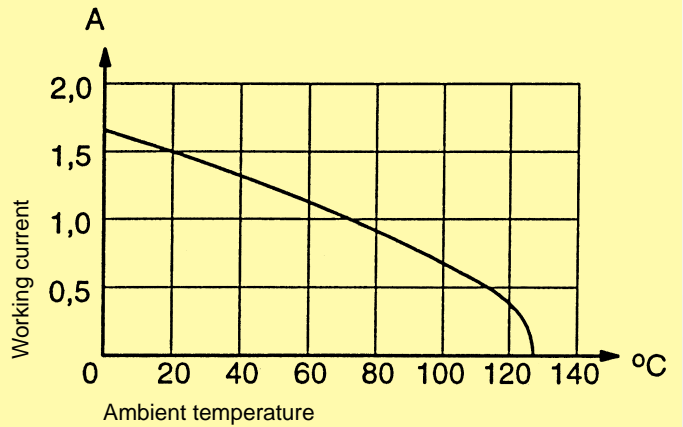
Mouldings	<ul style="list-style-type: none"> Liquid Cristal Polymer (LCP), for male connectors, straight female connectors, UL 94-V0 Thermoplastic resin glass-fibre filled, UL 94-V0
Contacts	Copper alloy

Contact surface	Contact zone: selectively plated ²⁾ Termination zone: tinned selectively plated ²⁾ similar to the performance level of the contact zone
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Current carrying capacity chart

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512



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²⁾ Explanation performance levels see chapter 00

* for angled female connector see page 06.20

Number of contacts

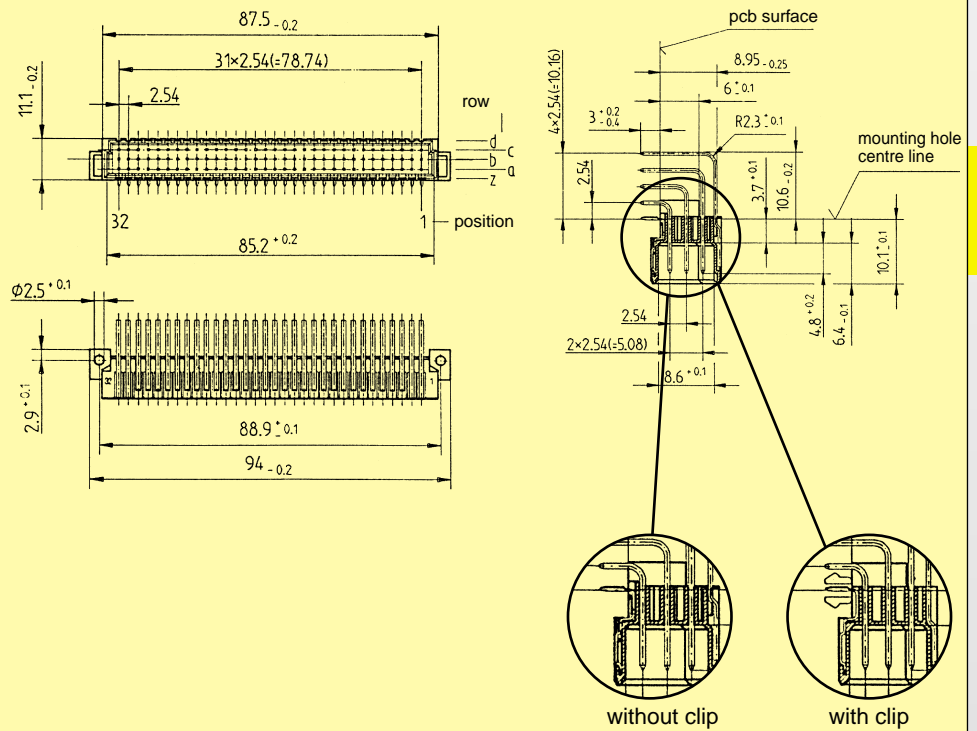
160



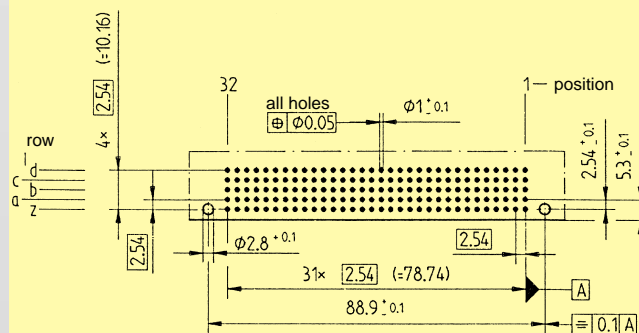
Male connectors

Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to DIN 41 612
			2	Explanation chapter 00 1
Male connectors, angled				
with solder pins				
without retention clip	160	z, a, b, c, d	02 01 160 2101	02 01 160 1101
SMC version* with retention clip	160	z, a, b, c, d	02 01 160 2102	02 01 160 1102

Dimensions



Board drillings

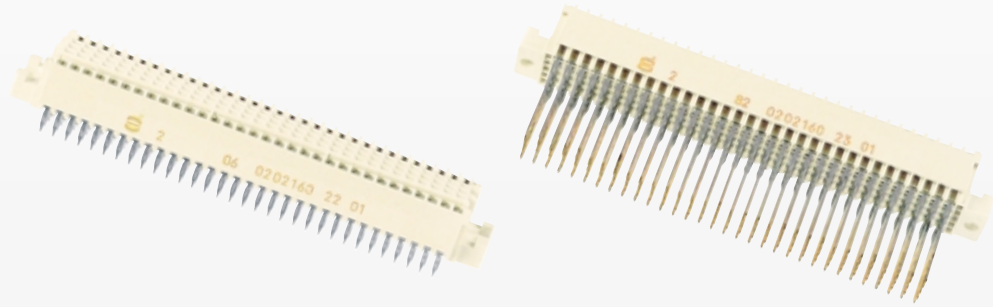


Dimensions in mm

* SMC see chapter 05

Number of contacts

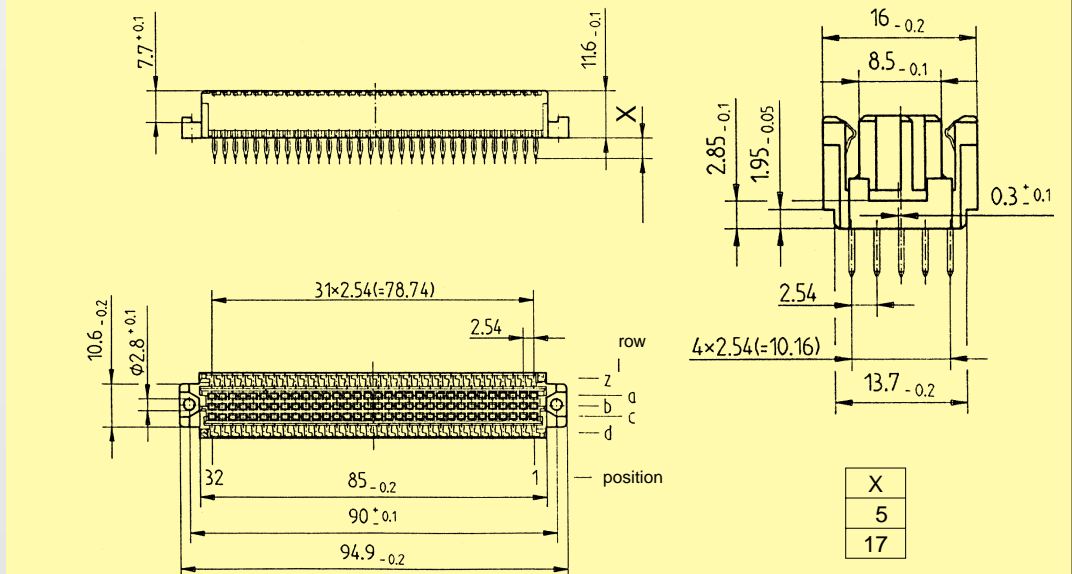
160



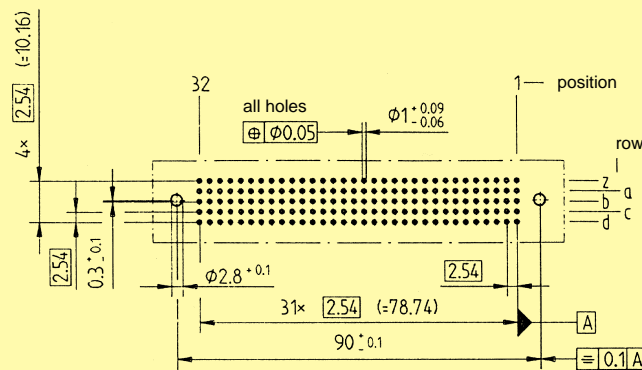
Female connectors

Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612	
			2	1
Female connectors, straight				
with press-in terminations				
with fixing flange 5 mm	160	z, a, b, c, d	02 02 160 2201	02 02 160 1201
17 mm*	160	z, a, b, c, d	02 02 160 2301	02 02 160 1301
without fixing flange 5 mm	160	z, a, b, c, d	02 02 160 2202	02 02 160 1202
17 mm*	160	z, a, b, c, d	02 02 160 2302	02 02 160 1302

Dimensions



Board drillings

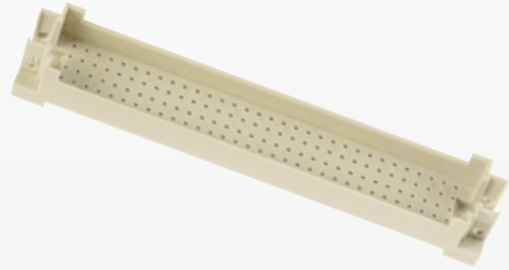


Dimensions in mm

* selectively gold-plated
Press-in technology see chapter 04
Tooling see chapter 30

Number of contacts

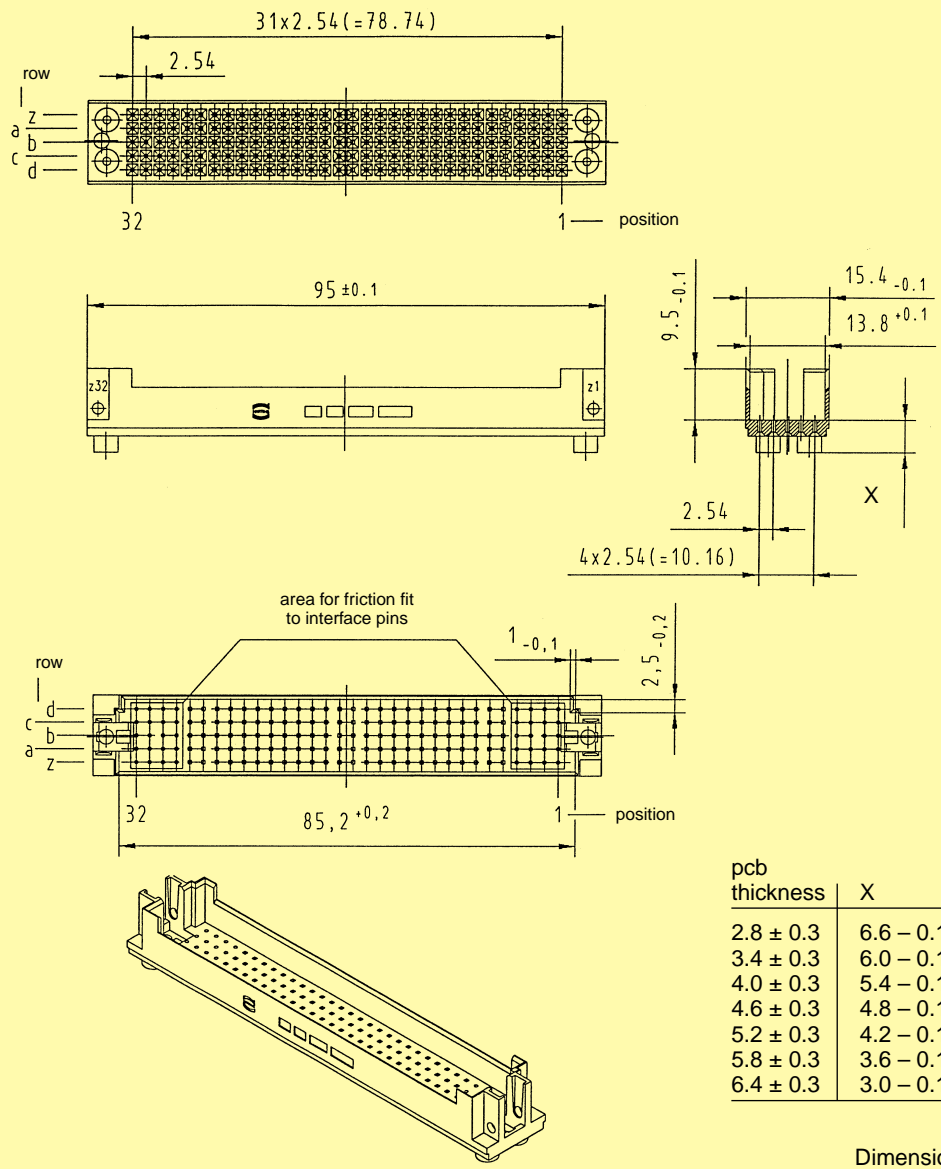
160



Pin shrouds

Identification	Number of contacts	Contact arrangement	Part No.	
Pins shrouds	160	z, a, b, c, d	pcb thickness (± 0.3 mm)	
			02 44 000 0007	2.8
			02 44 000 0001	3.4
			02 44 000 0002	4.0
			02 44 000 0003	4.6
			02 44 000 0004	5.2
			02 44 000 0005	5.8
			02 44 000 0006	6.4

Dimensions



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Dimensions in mm