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

Contact resistance

rows a, b, c: ≤ 20 mΩ
rows z, d: ≤ 30 mΩ

Insulation resistance

≥ 10^{10} Ω acc. to IEC 60512-2

Temperature range

– 55 °C … + 125 °C

Electrical termination

Male connector	Solder pins for pcb termination Ø 1.0 ± 0.1 mm according to IEC 60 326-3
Female connector	Solder pins for pcb termination Ø 1.0 ± 0.1 mm according to IEC 60 326-3 Compliant press-in terminations Crimp terminal 0.08 - 0.56 mm²
Diameter of pcb plated through holes	0.94 - 1.09 mm
pcb thickness	≥ 1.6 mm
Recommended pcb holes for press-in technology	in acc. to EN 60 352-5[2]

Insertion and withdrawal force

≤ 160 N

Materials

Mouldings	• 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

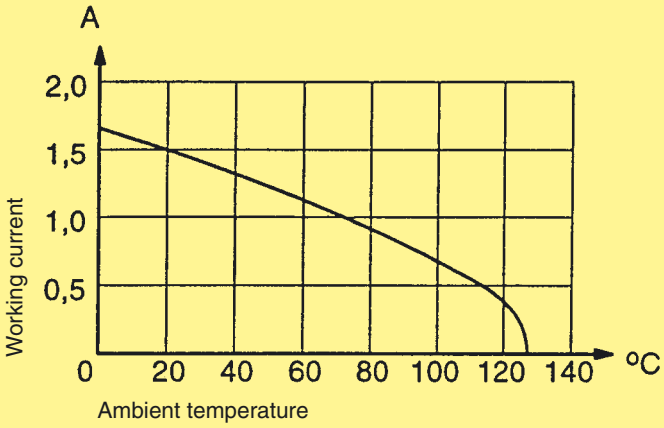
Contact zone: selectively plated[3]
Termination zone: tinned selectively plated[3] similar to the performance level of the contact zone

[2] Details see chapter 04
[3] Explanation performance levels see chapter 00

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



* for angled female connector see page 06.20