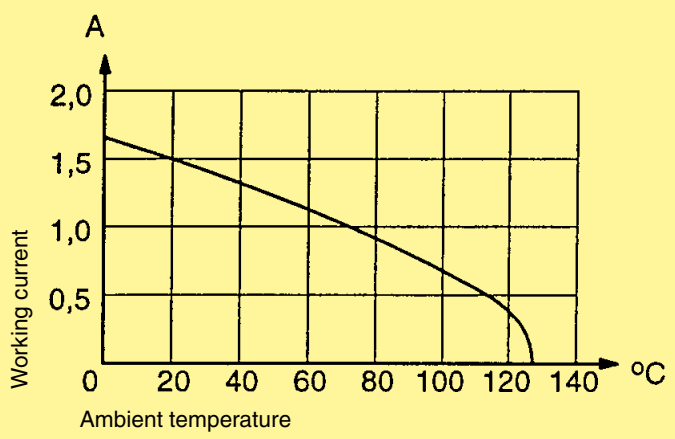


Number of contacts	160			
Contact spacing (mm)	2.54			
Working current	1 A at 70 °C and all contacts are loaded			
	see current carrying capacity chart			
Clearance and creepage distances				
minimal clearance and creepage distance		distance in mm		
		rows a, b, c	rows z, d	female angled
between two rows	clearance	1.2	1.2	0.6
	creepage	1.2	1.2	0.6
between two contacts (in a row)	clearance	1.2	1.0	0.8
	creepage	1.2	1.0	0.8
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				
for press-in termination	- 55 °C ... + 125 °C - 40 °C ... + 105 °C acc. to IEC 60512-11			
During reflow soldering	max. + 240 °C for 20 s for SMC connectors			
The higher temperature limit includes the local ambient and heating effects of the contacts under load				
Electrical termination				
	Solder pins for pcb termination Ø 1.0 ± 0.1 mm according to IEC 60326-3 Crimp terminal 0.09 - 0.50 mm ² Compliant press-in terminations			
pcb thickness	≥ 1.6 mm			
Recommended pcb holes for press-in technology	See recommendation page 00.25 in acc. to EN 60352-5			
Insertion and withdrawal force	≤ 160 N			
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	Plated acc. to performance level ¹⁾			

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 60512



With selective loading higher currents can be transmitted. The requirements according to VITA 1.7 are fulfilled.

harbus® 64 with switches

Deviating technical characteristics for the switching elements.

minimal clearance and creepage distance	distance in mm	
	clearance	creepage
between two rows	clearance	0.5
	creepage	0.7
between two contacts (in a row)	clearance	0.5
	creepage	0.7

Contact resistance
Switching elements ≤ 60 mΩ

Insertion and withdrawal force
Complete connector ≤ 180 N

¹⁾ Explanation performance levels see chapter 00

Number of contacts

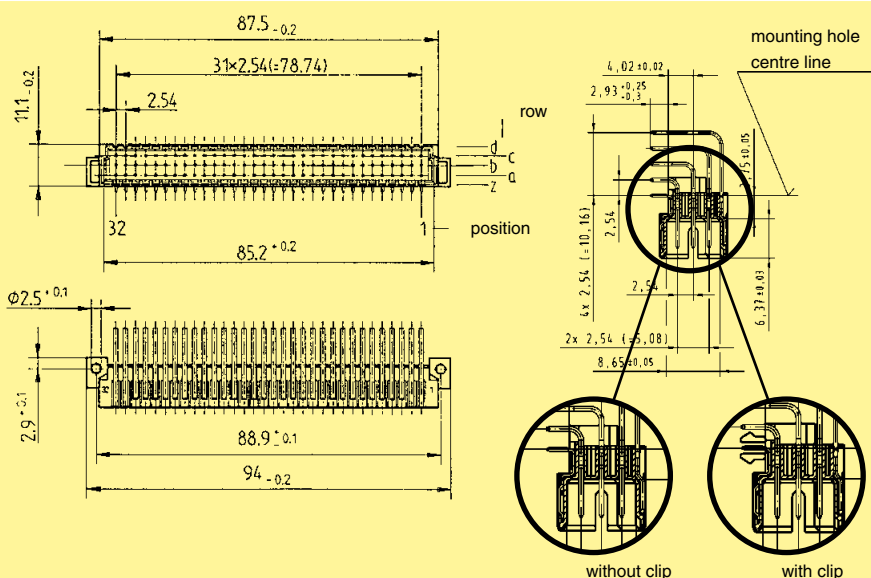
160



Male connectors, angled, SMC compatible

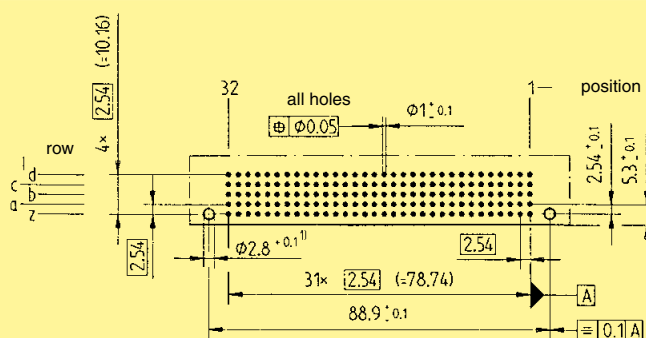
Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to IEC 61 076-4-113	
			2	1
Male connector* without retention clip	160	z, a, b, c, d	02 01 160 2101	02 01 160 1101 02 01 160 1105 ²⁾
	160	z, a, b, c, d	02 01 160 2102	02 01 160 1102 02 01 160 1106 ²⁾

Dimensions

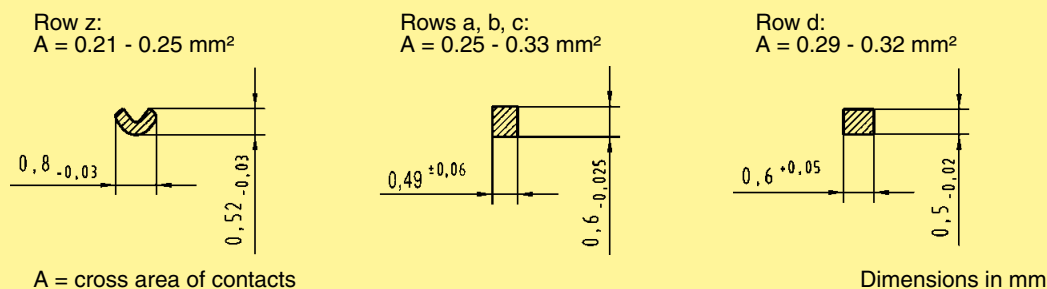


Board drillings

Mounting side



Cross section of solder terminations



* Pre-leading contacts at positions d1, d2, d31 and d32

¹⁾ Recommendation for variants with clip: Drillings can be enlarged up to 3.1 mm ϕ to reduce standard mounting force (see chapter 00)

²⁾ Special variant with min. 1.27 μ m (50 μ inch) Au and SnPb on termination