

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

minimal clearance and creepage distance ¹⁾		distance in mm	
		male connector	female connector
between two rows	clearance	1.4	0.6
	creepage	1.4	0.6
between two contacts (in a row)	clearance	1.2	0.8
	creepage	1.2	0.8

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	$\leq 20 \text{ m}\Omega$
Insulation resistance	$\geq 10^{10} \Omega$ acc. to IEC 60512-2

Temperature range	- 55 °C ... + 125 °C
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Electrical termination

Male connector	Compliant press-in termination
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
Female connector	Solder pins for pcb connection $\varnothing 1.0 \pm 0.1 \text{ mm}$ according to IEC 60 326-3

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

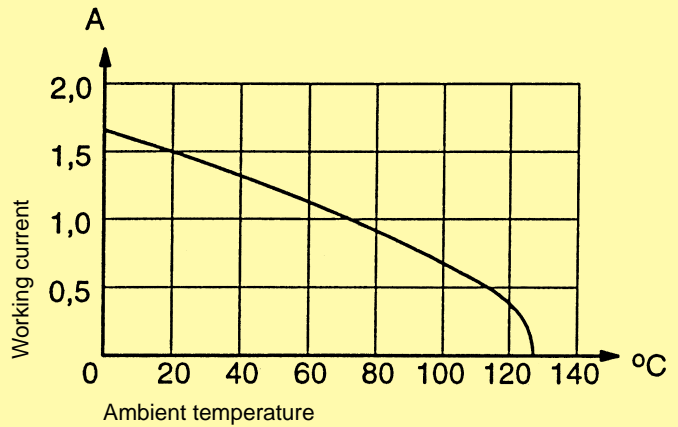
Mouldings	Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts	Copper alloy

Contact surface	Contact zone: selectively plated ²⁾ Termination zone: tinned
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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

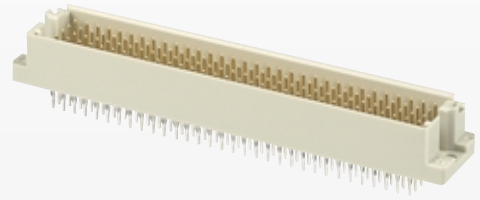


harbus 64 inverse

²⁾ Explanation of performance levels see chapter 00

Number of contacts

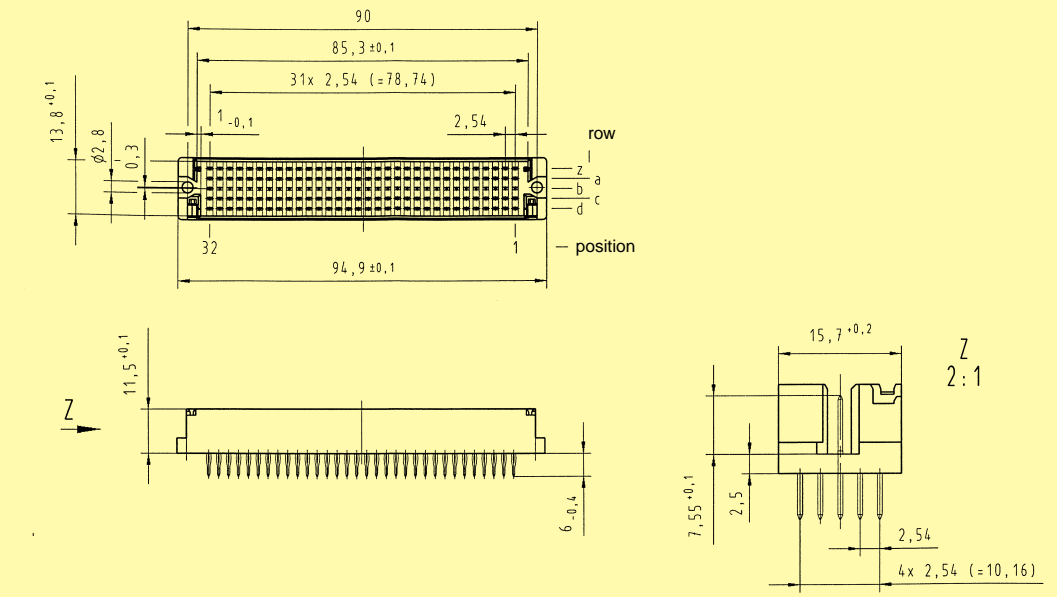
160



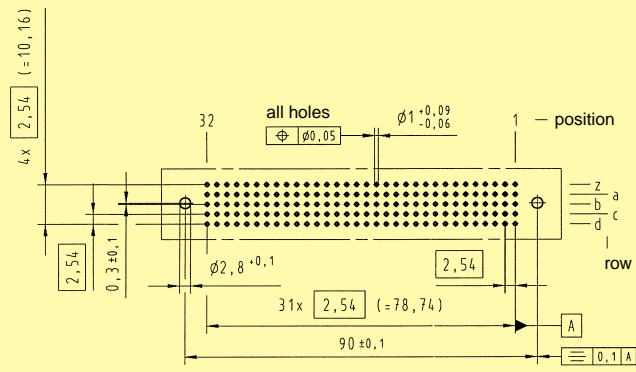
Male connectors

Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to DIN 41 612
			2	Explanation chapter 00 1
Male connectors, straight with press-in terminations	160	z, a, b, c, d	02 08 160 2201	02 08 160 1201

Dimensions



Board drillings

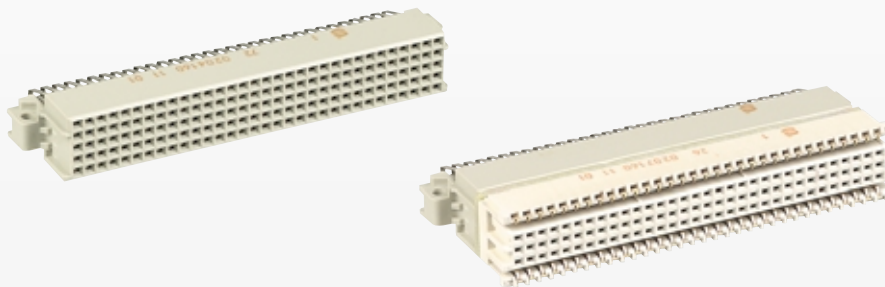


har-bus 64
inverse

Dimensions in mm

Number of contacts

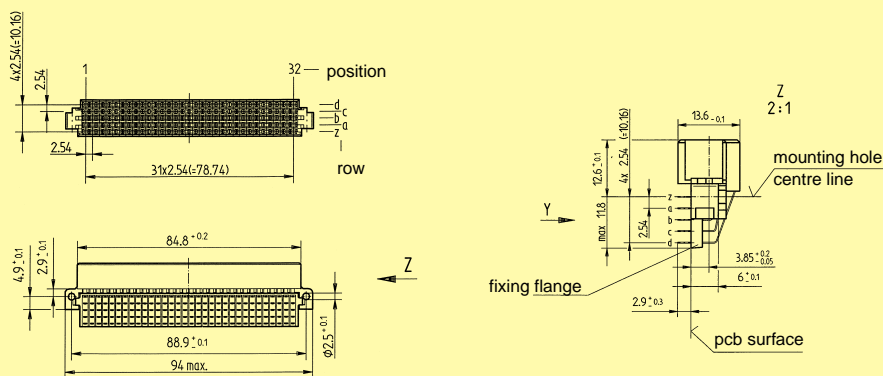
160



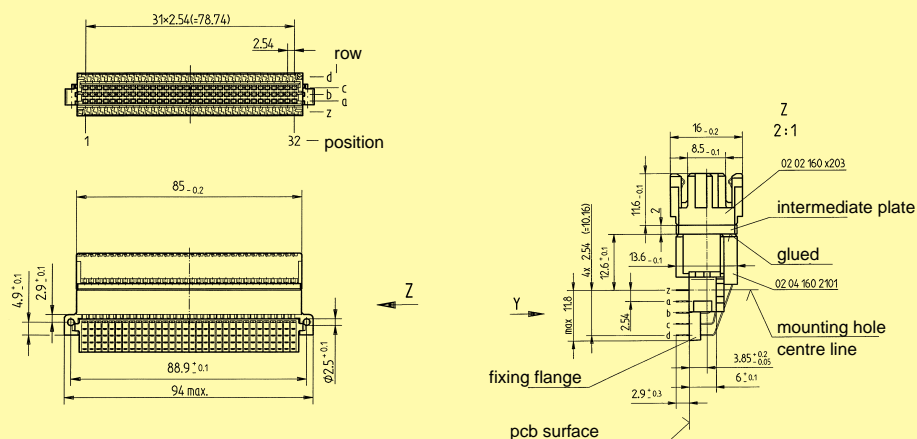
Female connectors

Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612 Explanation chapter 00	
			2	1
Female connectors, angled with solder pins for rear access and har-bus® 64 inverse male connector for har-bus® 64 male connector	160	z, a, b, c, d	02 04 160 2101	02 04 160 1101
	160	z, a, b, c, d		02 07 160 1101

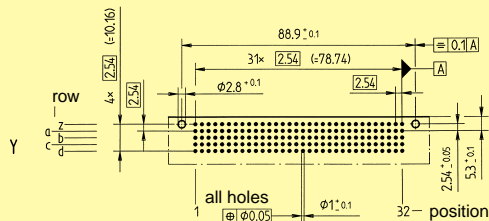
Dimensions 02 04 160 x101



Dimensions 02 07 160 1101



Board drillings



Dimensions in mm