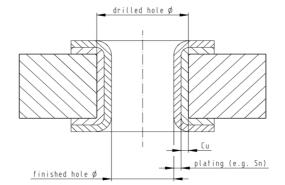
Recommended configuration of plated through holes for press-in termination

In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such as mechanical strength and coefficient of friction – we recommend the following configuration of PCB through holes.



	Drilled hole Ø	1,15±0,025 mm			
Tin plated PCB (HAL) acc. to EN 60352-5	Cu	min. 25 μm			
	Sn	max. 15 µm			
	plated hole Ø	0,94 - 1,09 mm			
	Drilled hole Ø	1,15±0,025 mm			
Chemical tin	Cu	min. 25 μm			
plated PCB	Sn	min. 0,8µm			
	plated hole Ø	1,00 - 1,10 mm			
Gold /Nickel plated PCB	Drilled hole Ø	1,15±0,025 mm			
	Cu	min. 25 μm			
	Ni	3 – 7 µm			
	Au	0,05 - 0,12 µm			
	plated hole Ø	1,00 - 1,10 mm			
	Drilled hole Ø	1,15±0,025 mm			
Silver plated PCB	Cu	min. 25 μm			
	Ag	0,1 - 0,3 µm			
	plated hole Ø	1,00 - 1,10 mm			
	Drilled hole Ø	1,15±0,025 mm			
Copper plated PCB (OSP)	Cu	min. 25 μm			
1 65 (031)	plated hole Ø	1,00 - 1,10 mm			

Assembly instructions

It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information about the press-in process.

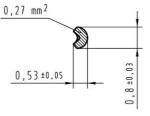
Soldering instructions

The connectors should be protected when being soldered in a dip, flow or film soldering baths. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.

(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de). Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. This will prevent heat and gases of the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.

(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.

Cross section of solder pins Cross section of wirewrap posts





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