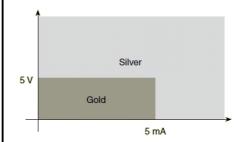
0 20

## Low currents and voltages

Type H standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a contact's lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is partly interrupted when the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low currents or voltages small changes to the transmitted signal may be encountered. In systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environments, HARTING recommend the use of gold plated contacts.

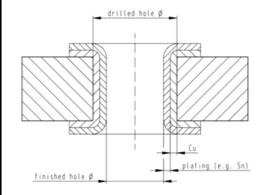
Below is a table derived from actual experiences.



## 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.



Tin plated PCB (HAL) acc. to EN	Drilled hole Ø	1,15±0,025 mm		
	Си	min. 25 μm		
60352-5	Sn	max. 15 μm		
	plated hole Ø	0,94 - 1,09 mm		
Chemical tin plated PCB	Drilled hole Ø	1,15±0,025 mm		
	Си	min. 25 µm		
	Sn	min. 0,8 µm		
	plated hole Ø	1,00 - 1,10 mm		
	Drilled hole Ø	1,15±0,025 mm		
6 11 08 1 1	Си	max. 15 µm hole Ø 0,94 - 1,09 mm hole Ø 1,15±0,025 mm u min. 25 µm n min. 0,8 µm hole Ø 1,00 - 1,10 mm hole Ø 1,15±0,025 mm u min. 25 µm i 3-7 µm u 0,05-0,12 µm		
Gold /Nickel plated PCB	Ni	3-7 µm		
	Au	0,05-0,12 µm		
	plated hole Ø	1,00 - 1,10 mm		

## Assembly instruction

100

Temperature [°C]

120

It is higly 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.

All Dimensions in mm	Scale Free size tol. Ref.							
Original Size DIN A3	1:1				Sub.			
HARTING HARTING	Created by STORCK		spected by NDJE	Standardisation HOFFMANN	Date State 2018-11-20 Final Release		elease	
Department EL PD HARTING Electronics GmbH	Ditle DIN Power type H15 low-profile press-in NFF DIN Power type H15 low-profile press-in NFF							
THAN TING ELECTIONES GINDI	Type DS		Number 09062120101				Rev. D Page 1/1	
5	6			7		ρ		

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