Γ	1		2	3	4		5		6			
	HARTING har _ h	us® HM	female r	nnertor	RoHS		Recommended configura	ation of plated th	1rough holes f	ior press-in	ı termination	
A	har-bus® HM female connector RoHS Compliant Compliant							In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such as mechanical strength ar coefficient of friction – we recommend the following configuration of PCB				
	General information								5	2		
	Design IEC 61076-4-101							led hole Ø	_ _			
	No. of contacts		-	7 - 308 fully shielded); or customised					│ ┺╢┛╵	<u>Cu min. 25µm</u>		
		Contact spacing 2,0mm										
	Test voltage 750V AC											
	Contact resistance max. 20m0hm									<u>//</u>		
В	Insulation resistance min. 10°0hm									1		
	Working current 1A at 70°C (see derating diagram)							hished hole $ otin \phi$				
	Temperature range -55°C +125°C							plating (e.g. Sn	1)			
	Termination technology press-in								-11-			
	Clearance & creepage distance 0,6 mm each for free connector											
-	insertion force per contact: 0.75N max											
	Insertion and withdrawal fo	rce	withdrawal force p				It is highly recommended to use HARTING press-in tools to ensure a reliable					
				level, see table below			information about the press-in process.					
	UL file		E102079									
	RoHS - compliant Yes						Circuit density					
С	Leadfree Yes											
		When using the specified to IEC 61 076-4-101 (0)	ed diameter of th	e finished thr	ough hole a	according						
	Insulator material							to IEC 61 076-4-101 (0.6 ± 0.05mm) with an appropriate annular ring, the remaining distance between the rings is about 1mm.				
								at the width of t	he track and '	the snare h	netween	
	Material PBT (thermoplastics, glass fiber reinforcement 30%)							 Under the condition that the width of the track and the space between should be equal, two tracks of 0.2mm width or three tracks of 0.14mm width can be placed between two rings. 				
-	Colour RAL 7032 (grey)							tween two rings.				
	UL classification UL 94-V0							Typical designs are shown in the drawing on the right side.				
	Material group acc. to IEC 60664-1 IIIa (175 < CTI < 400)											
	NFF classification I3, F4											
D	Contact material											
								Derating diagram acc. to IEC 60512-5 (Current carrying capacity) The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.				
	Contact material Copper alloy											
	Treatment contact zone Bellcore recommended lubricant (PPE)											
	Plating press-in zone Ni							ity curve is va	lid for cont	inuous no	on	
	Plating contact zone acc. to performance level, see table below							The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when				
	Shielding contact zone acc. to performance level, see table below							r on all contac	ts is given.	, without (exceeding	
							the maximum tempe	erature.				
							Control and test p	rocedures acc	ording to DI	N IEC 605	12-5	
		mating cycles										
E	())		complementary acc. to IEC	plating contact zone			Furve 1 shows rais	a in tomnorat				
	performance level	acc. to IEC			shielding contact	zone		Curve 1 shows raise in temperature Curve 2 shows nominal derating Date Name				
		61076-4-101	61076-4-101				Curve 3 shows red	uced values a	s per IEC512	!		
	1	500		Au over Ni	noble metal over	- Ni				1		
	2	250		Au over Ni	noble metal over	- Ni		imensions in mm		Free size	tol.	
1	NM30 (S4)		500	min. 0,76µm (30µinch	n) noble metal (alloy) over Ni		Original Size DIN A3 1:1		<u> </u>			
	Au30	500		min. 0,76µm (30µinch) Au over Ni not availat			All rights reser		Created by ZWAHR		Inspected by LEHNERT	
1	Au50	500		min. 1,27µm (50µinch) Au over Ni			Department					
F	Standard plating options highlighted in <i>italic</i> , other plating options are available on request.								Title har-	.hus® HI	M female	
[
							D-32339 Espelkamp		Type DS	Numb	^{ber} 17002	
1	1		<u>ົ</u>		1							
	I		2	3	4	<u> </u>	5		6			



<u>A</u>3