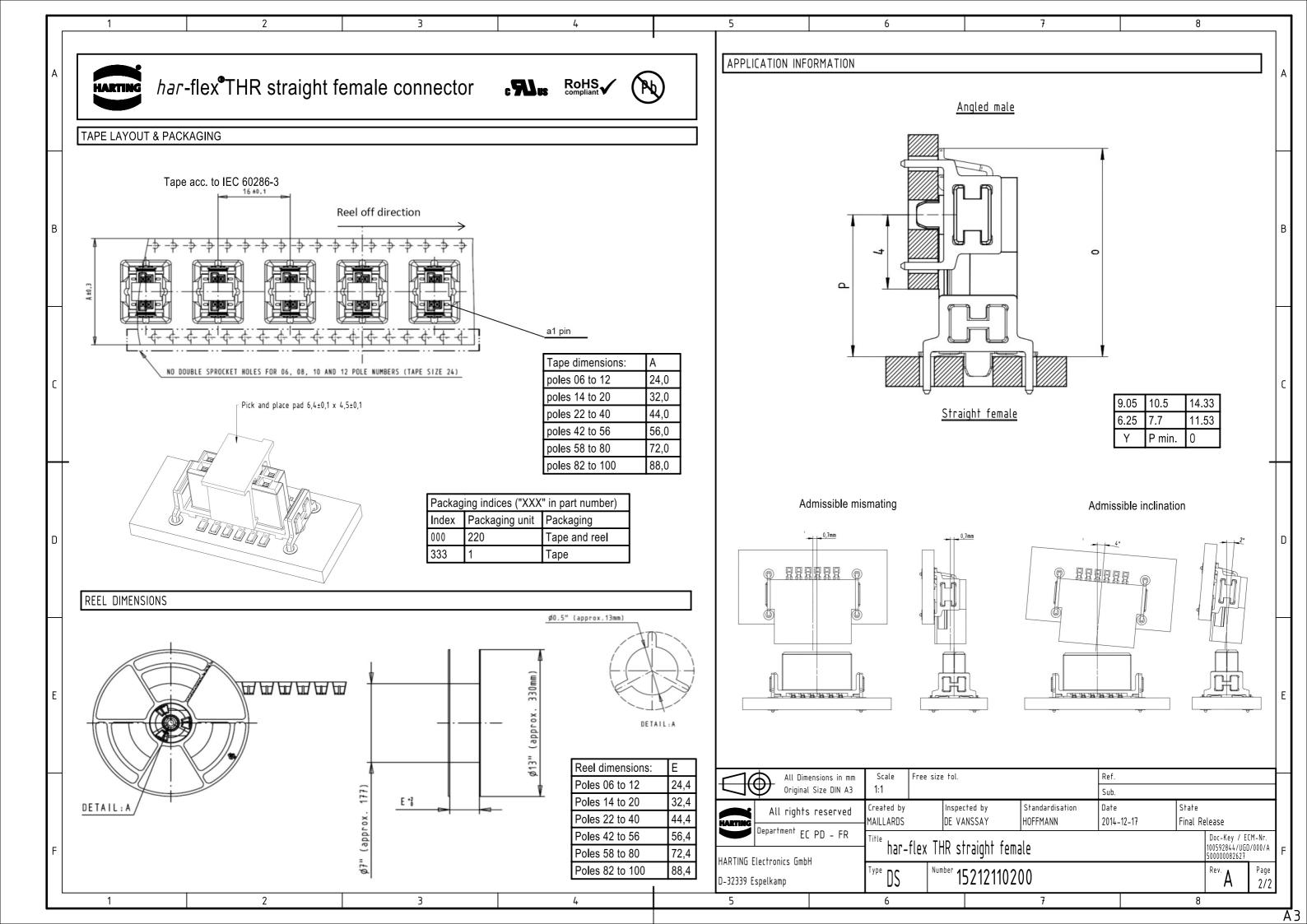
1 2	3	4		5		6	7		8
•		Dalle 4		RECOMMENDATIO	ON FOR SOL	LDER PROCESS	SING	•	
HARTING har-flex THR straight female connector RoH			(Pb)	Solder paste recommendation					
				The har-flex connectors are solderable with established lead-free SAC / SnNi solder but also leaded solder e.g. SnPb					
GENERAL INFORMATION]						
				PCB pad plating The handless are padderable and lead free and surfaces like UAL NiAu James are an expension Cr					
No. of contacts from 6 to 100 poles, all even numbers				The har-flex connectors are solderable on lead-free pad surfaces like HAL, NiAu, Immersion Sn.					
Contact spacing	1,27mm x 1,27mm [0,050"x0,050"] 500V			Stencil recommend	dation				
Test Voltage Contact resistance	< 25 mOhm			The solder deposition	n has to be p	placed on the pa	d area of the contact solder tines.		
Insulation resistance	≥ 10x10^9Ω						h-to-width ratio and center point li		
Working current acc. to IEC 60512, at 70°C, 80% derating	see derating diagram						ling on the thickness of the stenci rtures to result in the required vol		
Working temperature range	-55°C +125°C		.				ne signal pins is 0,094mm ³ , for the		9mm³.
Termination technology	SMT			For example, this car					
Reflow processing temperature	min. 150s >217°C			-					
(acc. to ECA/IPC/JEDEC J-STD-075 Level PSL R0)	min. 30s > 240°C			1			Signal pins		
Clearance & creepage distance	0.4mm min.			Stencil thic	ckness P	CB pad size	proposal stencil aperture size	calculated solder	paste volume
Insertion force (depending on mating connector)	approximately 0,5N/contact			150 µ	ım mı	1,1 x 0,8 mm	0,99 x 0,72 mm	0,107	mm³
Withdrawal force (depending on mating connector)	approximately 0,5N/contact]			Hold-downs	•	
Mating cycles	PL1 : 500 mating cycles			<u> </u>		20D ! . !	1		1
	PL2 : 250 mating cycles			Stencil thic	ckness P	PCB pad size	proposal stencil aperture size	calculated solder	•
RoHS - compliant	Yes			150 μ	ım	Ø0,8 mm	Ø2,3 mm	1.179	mm³
Leadfree	Yes				0.1				
Working voltage acc. to to IEC 60664-1	100V / 150V (depending on installation	ion category)					ease insure the minimum required the solder depostion may protrude		
UL file acc. UL 1977	ECBT2.E102079						e the cleaning interval of the sten		
UL file acc. CSA-C22.2 (for Canada)	ECBT8.E102079			than the PCB pad ab					
PSL level acc. ECA/IPC/JEDEC J-STD-075	PSL R0			Performance level					
MSL level acc. ECA/IPC/JEDEC J-STD-020D MSL 1				Performance level 1 (recommended for majority of applications)					
INSULATOR MATERIAL							/ 75% r.h.) using H2S 10 ppb, NC		
Material	LCP (liquid crystalline polymer)			and visual inspection		ice. The remainir	ng 250 mating cycles are subject	to measurement of co	ontact resistand
Color	Black			Visual inspection. Visual inspection. Visual inspection. No abrasion of the contact finish through to the base material. No functional impairment. Part number definition: 15 2					
UL classification	UL94-V0								
Material group acc. IEC 60664-1	IIIa (175≤CTI< 400)			Performance level 2					
CONTACT MATERIAL				1		gas test (25°C /	75% r.h.) using H2S 10 ppb, NO2	2 200 ppb, CL2 10 pp	b, SO2 200 ppt
	<u> </u>	•	=			nce. The remaining	ng 125 mating cycles are subject	to measurement of co	ontact resistanc
Contact material	Copper alloy			and visual inspection. Visual inspection. No abrasion of the contact finish through to the base material. No functional impairment.					
Plating termination zone	Sn P. IV. (. D. (. D. (Part number definition				.o ranodonai impaiiiii	·
Plating contact sliding side	Au over PdNi (acc. to Performance le	level)		Doutours I I I I	.4				
DERATING DIAGRAM acc. to IEC 60512-5 (Current carrying capacity)				Performance level S4 Defined contact surface of min. 0,06 µm Au over 0,7+0,2µm PdNi					
		fowl - 180god		Part number definition			ομ τομεμπιταίτι		
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including	4 Norther St								
terminals.	₹ 3								
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when] peo	—1: 5 pat		All D	nsions is I	Scale Free siz	za tol	Ref.	
simultaneous power on all contacts is given, without	- 2 - 2	— 1: 5 pp - 1: 5 pp - 3: 35 pp - 3: 35 pp - 3: 55 pp - 5: 55 pp - 6: 100 pp			ensions in mm Size DIN A3	1:1	.C 10t.	Sub.	
exceeding the maximum temperature.	ectr			All rights		Created by	Inspected by Standardisation		State
Control and test procedures according to DIN IEC 60512-5	w -			HARTING Department EC		MAILLARDS	DE VANSSAY HOFFMANN	I I	Final Release Doc-Key / E0
derating curve at Imax*0,8 (IEC 60512-5-2)	0 10 20 30 40 50 60 70	70 80 90 100 110 120 130				har-flex T	HR straight female		100592844/UGI 50000082627
dordaing out to at illian 0,0 (ILO 00012-0-2)	Temperature	 e [°C]		HARTING Electronics GmbH D-32339 Espelkamp	1	Type DS Nu	^{mber} 15212110200		Rev. A
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