1	2 3		4		5	6		7		8
				' ^	Soldering instructions			:		
ARTING	DIN Signal male conne	≥ctor - SMC	c N Us	RoHS 2002/95/EC		estible) connectors are design	and to be used in a soften o	ven together with other SMD (S	unfaco Mount Dovico) com	enents in this process calle
					well "Pin in Hole Intrusiv be assembled on the pcb	e Reflow", the connectors ar	e inserted into plated throug	h holes in a comparable way to	conventional component n	ounting. All other components
eneral information					The length of the connec	tor contacts should be such	that they protrude by no mo	re than 1.5 millimetres after in solder would no longer be able	sertion to the pcb. Each c	ontact collects solder on its
esign	IEC 60603-2 types: B, C male				action during the soldering	ng process, therefore the qua	ality of the soldered connect	ion would suffer as a result.	to reitow pack lillo the bi	ared illiough hote by capittal
lo. of contacts	max. 96									
ontact spacing	2,54mm				Quantity of solder paste					
est voltage ontact resistance	1000V max. 15m0hm				Refere the companents a	no accombled colden pacto n	oust be applied to all the sel	der pads (for connecting surfa	so mount components) and	the plated through belos
onraci resistance nsulation resistance	min. 10º0hm				To ensure that the plate	d through holes are complete	ely filled, significantly more s	older paste must be applied th	an traditional solder pads	on the pcb surface. There a
Vorking current	2A at 20°C (see derating diagram)				numerous calculation met	hods available which are comp	olicated to apply. The followi	ng rule of thumb has proved va	aluable in practice:	
emperature range	-55°C +125°C		,		VPaste = 2(VH - VP)					
<u> </u>	max. 15s at 240°C for reflow soldering				in which: VPaste = Required volum	e of solder maste				
ermination technology	SMC with solder pins				VH = Volume of the plat	ed through hole				
learance & creepage distance	min. 1,2mm each 64-pole max. 60N				VP = Volume of the conn	ector termination in the hole				
nsertion and withdrawal force	96-pole max. 90N				Comment: the multiplier "	2" compensates for solder pa	aste shrinkage during solderi	ng. For this purpose, it was ass	sumed that 50 % of the p	aste consists of the actual s
	PL 1 acc. to IEC 60603-2	500 mating cycles			the other 50 % being sol	uering aios.				
lating cycles	PL 2 acc. to IEC 60603-2	400 mating cycles			Cross section of solder	pins				
	PL 3 acc. to IEC 60603-2	50 mating cycles				=	=	=	÷	÷
L file	E102079				A= 0,25mm ² - 0,28mm ²					
toHS – compliant eadfree	Yes Yes	-			0,45±0,02					
ot plugging	No					1				
, ,,,,		·								
						†				
					0.05	77				
nsulator material					9,0					
 Material	PCT (thermoplastics, glass fiber reinforcement 30%)					1				
Colour	natural coloured, colour deviations and speckles perm	•								
JL classification	UL 94-V0									
Material group acc. IEC 60664-1	(400 <u><</u> CTI < 600)									
NFF classification	13, F3									
ontact material										
	C									
Contact material Plating termination zone	Copper alloy Sn over Ni									
Plating contact zone	Au over PdNi over Ni									
<u>,</u>										
erating diagram acc. to IEC 60512-5 (Current c	rrying capacity)									
ne current carrying capacity is limited by maxin	um temperature	А								
f materials for inserts and contacts including	erminals.	2								
he current capacity curve is valid for continuo	s, non		$1 \mid 1 \mid 1 \mid 1$							
nterrupted current loaded contacts of connecto imultaneous power on all contacts is given, wit	s when out exceeding	1.5								
he maximum temperature.	-		$ \mathcal{N} $							
ontrol and test procedures according to DIN IE	60512-5	[V] peo 1	$ \cdot \cdot \cdot \cdot $							
		<u> </u>				imensions in mm Scal	Free size tol.		Ref.	
		Electrical C		$\setminus \mid \mid \mid$	Origin	nal Size DIN A3 1:1			Sub. DS 09 06 123 0	02 / EC01482 / 08.06.2011
		ä 0.5	+++++	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	All rinh	ts reserved Created	d by Inspected	by Standardisation	Date	State
					HAPTING	TAD IF	ELLERMANN	HOFFMANN	2013-12-18	Final Release
					Department	EC PD - DE Title D	IN C' '	l CMC		Doc-Key / EC
		0 20 40	60 80 100	120 °C	LIA DI INC. SI	 U	IN Signal male con	nector - SML		100560790/UGD, 50000069830
		0 20 40		,20 0	HARTING Electronics Gm	ווטוו	I			
			Temperature [°C]		1	I I V De	L INDIIIDEL V V V.	7477676		I Kev. ▶
			Temperature [°C]		D-32339 Espelkamp	Type [S Number 090]	31230202		Rev. B
1	2 3		Temperature [°C]	1	D-32339 Espelkamp			31230202	T	

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