1	2 3		4		5	6		7		8	
					Soldering instructio	ns					
A HARTING DIN signal m	ale connector with	special c	Contacts Rolls								_
	·····	I				uld be protected when beir esult of soldering operation			th. Otherwise, the	ey might become	
General information					(1) For prototypes	and short runs protect the	, connectore with an i	ndustrial adhesive tase	on Tocobood 10	31 (NUNA tocs do)	
General information	<u>.</u> .	÷			Cover the underside	of the connector moulding	g and the adjacent pa	rts of the pcb as well a	e.y. resolution 45 is the open sides	of the connector. T	This
Design	IEC 60603-2	types: M m			will prevent heat ar	nd gases of the soldering					
No. of contacts	78+2, 60+4, 42+6, 24+8, 6+10	rypes: M m	ומול		suffice.						
		7()	an apparial contacto		(2) For large series	a jig is recommended. Its	protective cover with	a fast action mochanica	Llocking device of	hields the connector	rc
Contact spacing	2,54 mm for signal contacts 1000V	<i>t</i> ,o2 mm to	or special contacts			generated by the soldering					
Test voltage Contact resistance	max. 20m0hm				that should not be		, , , , , , , , , , , , , , , , , , ,			су ст. – Г – С	
B Insulation resistance	max. zumunm min. 10º20hm					Han an and - Han - H		ad domestic at the state		- F	
	· · ·					o align special contacts du id misalignment due to ang		ea aummy connector of t	ne counterpart ca	an be used to align	
Working current	2 A@20°C (see derating diagram) for signation for signation of the second secon						yular uevidriviis.				
Temperature range	-55°C +125°C				Cross section of so	lder pins		<u>:</u>		<u>.</u>	
Termination technology	solder pins										
Clearance & creepage distance	min. 1,2 mm				025	_					-
	6pol. max. 6N 60pol. max. 57	7N			-0,025),29 - 0,33 mm ²					
Insertion and withdrawal force	24pol. max. 23N 78pol. max. 74	4N			9.0						
	42pol. max. 40N										
Mating cycles	- PL1 acc. to IEC 60603-2 =>	500 mating	g cycles			5 +0,05					
C Mating cycles	- PL2 acc. to IEC 60603-2 =>	400 mating	g cycles								C
	- PL3 acc. to IEC 60603-2 =>	50 mating	cycles								
UL file	E102079										
RoHS - compliant	Yes										
Leadfree	Yes										
Hot plugging	No										+
Insulator material											
Material	PBT (thermoplastics, glass fiber reinfor	rrement 30%)									
D Colour	RAL 7032 (grey)										l n
UL classification	UL 94-V0										
Material group acc. to IEC 60664-1	IIIa (175 <u><</u> CTI < 400)										
NFF classification	I3, F4										
	12, 1 7	,									
Contact material	· · · · · · · · · · · · · · · · · · ·			·							-
Contact material	Copper alloy										
Plating termination zone	Sn over Ni										
Plating contact zone	Au over PdNi over Ni										
E Derating diagram acc. to IEC 60512-5 (Cur	rrent carrying capacity)										E
		A		<u> </u>							
The current carrying capacity is limited b temperature of materials for inserts and terminals.		2									
The current capacity curve is valid for c		₹ 1.5	+ N + + +				F				
	interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding					nensions in mm Scale F al Size DIN A3 1:1	Free size tol.	F	Ref. Sub. DS 09031200202 / 50	10000076066 / 204/ 20 40	
	simultaneous power on all contacts is given, without exceeding						Increased by		Sub. US 09031200202 / 50 Date	State	—
		Electrical				s reserved Created by TADJE	Inspected by ELLERMANN	1	Date 2015-11-17	Final Release	
Control and test procedures according to	DIN IEC 60512-5	0.5	+ + + + + + + + + + + + + + + + + + +		Department E	CPD – DE Title				Doc-Key / ECN	M-Nr
F		-				DIN si	iqnal male connect	or with special conta	acts	100580373/UGD/ 500000097390	^{000/B} F
0 20 40 60 80 100 120 °C					HARTING Electronics GmbH					Page	
		020 40	Temperature [°C]	U I	D-32339 Espelkamp	DS	Number 090312	00202		^{Rev.} B	1/1
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