	4	2	2					1	
	I	Ζ	3	4		5	Б		
					I				
						Recommended configuration of plated through holes for press-in termination			
А	HARTING	DIN Signal fema	le connector	RoHS		In addition to the hot-ai	r-level (HAL), other PCB surfaces are getting	тоге	

types: F low profile female

3,81 mm between rows

2500V contact/ground

500 mating cycles

400 mating cycles

50 mating cycles

for press-in connectors (due to limitations of PCB-material)

Design

General information

No. of contacts

Contact spacing

Contact resistance

Working current

Clearance

Сгеераде

Mating cycles

RoHS – compliant

Insulator material

UL classification

NFF classification

Contact material

Contact material

Plating termination zone Plating contact zone

the maximum temperature.

Material group acc. IEC 60664-1

UL file

Leadfree

Material

Color

Hot plugging

Temperature range

Termination technology

Insertion and withdrawal force

Insulation resistance

Test voltage

IEC 60603-2

max. 15m0hm

min. 10ºOhm

-55°C ... +125°C

-40°C ... +105°C

32-pole max. 50N

48-pole max. 75N

RAL 7035 (light grey)

II (400 < CTI < 600)

UL 94-V0

Copper alloy

Sn over Ni for solder, Ni for press-in

12, F1

2

- PL 1 acc. to IEC 60603-2 =>

- PL 2 acc. to IEC 60603-2 =>

- PL 3 acc. to IEC 60 603-2 =>

PA (thermoplastics, glass fiber reinforcement 25%)

min. 1,6 mm min. 3,0 mm

-

Yes

Yes

No

press-in, solder pins

5,08 mm between contacts

1550V contact/contact

max. 48

6A at 20°C (see derating diagram) for unmounted connector, limitations may occure due to PCB material

Au over Pd/Ni over Ni Derating diagram acc. to IEC 60512-5 (Current carrying capacity) The current carrying capacity is limited by maximum temperature А of materials for inserts and contacts including terminals. 6 The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when 5 simultaneous power on all contacts is given, without exceeding Electrical Load [A] Control and test procedures according to DIN IEC 60512-5 З 2 80 100 120 °C 0 20 40 60

3

Temperature [°C]

4

_	5	6	7		8	
				-		-
	Recommended configuration of plated t	hrough holes for press-in termination				_
	In addition to the hot-air-level (HAL), o			Drilled hole Ø	1,15±0,025 mm	
	important. Due to their different prope coefficient of friction – we recommend	rties - such as mechanical strength and	Tin plated PCB (HAL) acc. to EN 60352-5	Sn	max. 15 µm	11
٦	through holes.			plated hole Ø	0,94 - 1,09 mm	1
ĺ				Drilled hole Ø	1,15±0,025 mm	4
ĺ	drilled hole Ø	 Cu min. 25µm	Chemical tin plated	Sn	min. 0,8µm	11
1			PCB	plated hole Ø	1,00 - 1,10 mm	┥Ĺ
1				Drilled hole Ø	1,15±0,025 mm	4
1				Ni	3 - 7 µm	
1			Gold /Nickel plated PCB	Au	0,05 - 0,12 µm	
				plated hole Ø	1,00 - 1,10 mm	
	, I					4
	finished hole Ø	<u> </u>		Drilled hole Ø	1,15±0,025 mm	┨₿
	plating (e.g. Sr) II	Silver plated PCB	Ag	0,1 - 0,3 µm	
	<u></u>	″──■┤┼■		plated hole Ø	1,00 - 1,10 mm	┥╎
			Copper plated	Drilled hole Ø	1,15±0,025 mm	41
			PCB (OSP)	plated hole Ø	1,00 - 1,10 mm	<u> </u>
I						
I	Assembly instructions					-
	It is highly assessed at the UADTIN	E proce in tools to answer a sufficient		for to the set-line of	for toolo machines and fund	-
	information about the press-in process	G press-in tools to ensure a reliable pre	ss-in process. Please re	ter to the catalogue i	for tools, machines and further	
	· · ·					_
	Soldering instructions					- c
	The connectors should be protected wh	en being soldered in a dip, flow or film so	Idening baths Otherwise	they might become o	contaminated as a result of	
	soldering operations or deformed as a	result of overheating.	nuernig barris. Ornerwise	, mey might become c		
		-				
	(1) For prototypes and short runs proto	ect the connectors with an industrial adhe				
			in 10			
	Cover the underside of the connector m	noulding and the adjacent parts of the pol damaging the connector. About 140 + 5 m	o as well as the open sign of the tane should su	des of the connector. ffice	This will prevent heat and	
	Cover the underside of the connector m	noulding and the adjacent parts of the pol damaging the connector. About 140 + 5 m	o as well as the open si m of the tape should su	des of the connector. ffice.	This will prevent heat and	_
	Cover the underside of the connector m gases of the soldering apparatus from (2) For large series a jig is recommende	damaging the connector. About 140 + 5 m d. Its protective cover with a fast action	m of the tape should su mechanical locking device	ffice. e shields the connecto	ors from gas and heat	+
	Cover the underside of the connector m gases of the soldering apparatus from (2) For large series a jig is recommende	damaging the connector. About 140 + 5 m	m of the tape should su mechanical locking device	ffice. e shields the connecto	ors from gas and heat	-
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	Cover the underside of the connector m gases of the soldering apparatus from (2) For large series a jig is recommende generated by the soldering apparatus.	damaging the connector. About 140 + 5 m d. Its protective cover with a fast action As an additional protection a foil can be u	m of the tape should su mechanical locking device	ffice. e shields the connecto	ors from gas and heat	- - D
	Cover the underside of the connector m gases of the soldering apparatus from (2) For large series a jig is recommende generated by the soldering apparatus. Cross section of solder terminations	damaging the connector. About 140 + 5 m d. Its protective cover with a fast action As an additional protection a foil can be u	m of the tape should su mechanical locking device	ffice. e shields the connecto	ors from gas and heat	- -
	Cover the underside of the connector m gases of the soldering apparatus from (2) For large series a jig is recommende generated by the soldering apparatus. Cross section of solder terminations	damaging the connector. About 140 + 5 m d. Its protective cover with a fast action As an additional protection a foil can be u	m of the tape should su mechanical locking device	ffice. e shields the connecto	ors from gas and heat	- D
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<u>A</u>3

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