har-flexicon terminal block vertical, push-in, WAVE

RoHS compliant

General information

Design	PCB Terminal Block	
Type	**har-flexicon 5.0TWPV**	
Part numbers	**1403xx16101xxx**	
Contact pitch	5 mm	
No. of contacts	2 - 18 poles	
Rated surge voltage (II/2):	4 kV	(overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2):	4 kV	(overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3):	4 kV	(overvoltage cat. III / pollution degree 3)
Rated Voltage:	300 V	
Rated voltage (II/2):	600 V	(overvoltage cat. II / pollution degree 2)
Rated voltage (III/2):	300 V	(overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	300 V	(overvoltage cat. III / pollution degree 3)
Working current	12 A	
Contact resistance	max. 15 mOhm	
Insulation resistance	min. 10^9 Ohm (500 V DC)	
Temperature range	-40°C ... +110°C	
Termination technology	wave solder	
Insertion force	n.a	
Withdrawal force	n.a	
Hot plugging	No	
Vibration	10-150Hz,0,35mm,5g 2h each axes -> No contact disturbance > 1µs	
RoHS - compliant	Yes	
UL file	E314677	

Isulator material

Material	PA
Color	green
UL classification	UL 94-V0
Material group acc. to. IEC 60664-1	I (CTI > 600)

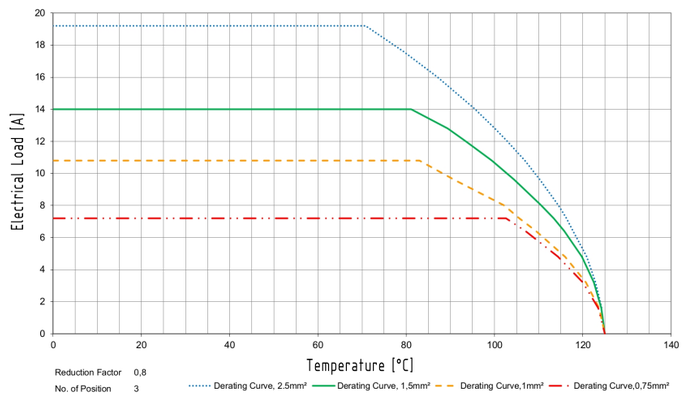
Contact material

	termination zone	**contact zone**
Contact material	Copper alloy	Copper alloy
Plating	Sn	Ni

Derating

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5



Cable connection

Type	har-flexicon 5.0TWPV
Part numbers	**1403xx16101xxx**
Conductor size AWG max:	12 AWG
Conductor size AWG min:	30 AWG
Conductor size solid max:	2,5 mm^2
Conductor size solid min:	0,2 mm^2
Conductor size stranded max:	2,5 mm^2
Conductor size stranded min:	0,2 mm^2
Conductor size stranded for end sleeve	
Stripping length max:	10 mm
Stripping length min:	10 mm

Packging unit

Type of packaging	No. of poles (xx)	Quantity	Index (xxx)	Remark
box	2	300	000	
box	3	200	000	
box	4 - 5	150	000	
box	6 - 12	100	000	
box	13 - 18	50	000	

1403xx16101xxx

All Dimensions in mm
Original Size DIN A3

Scale	Free size tol.	Ref.
1:1		Sub.

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Department EC PD - DE

HARTING Electronics GmbH
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Created by	Inspected by	Standardisation	Date	State
ZWAHR	TADJE	HOFFMANN	2014-07-31	Final Release

Title: har-flexicon terminal block vertical, push-in, WAVE

Doc-Key / ECM-Nr.: 100579708/UGD/000/B 500000077827

Type: DS | Number: 14037401501 | Rev.: B | Page: 1/1

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