har-flexicon female connector, horizontal, push-in

RoHS compliant

General information

Design	female connector		
Type	**har-flexicon 3.50/3.81 FPH**	**har-flexicon 5.00/5.08 FPH**	
Part numbers	1431xx14102xxx & 1431xx14106xxx 1431xx15102xxx & 1431xx15106xxx	1431xx16102xxx 1431xx17102xxx & 1431xx17106xxx	
Contact pitch	3.50 mm / 3.81 mm	5 mm / 5.08 mm	
No. of contacts	2-25 poles	2-18 poles	
Rated surge voltage (II/2)	2,5 kV	4 kV	(overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2)	2,5 kV	4 kV	(overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3)	2,5 kV	4 kV	(overvoltage cat. III / pollution degree 3)
Rated Voltage	300 V	300 V	
Rated voltage (II/2)	300 V	600 V	(overvoltage cat. II / pollution degree 2)
Rated voltage (III/2)	150 V	300 V	(overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	150 V	250 V	(overvoltage cat. III / pollution degree 3)
Working current	11 A	12 A	
Usegroup B, rated voltage / current	300 V / 11 A stranded, 9 A solid	300 V / 12 A	
Usegroup C, rated voltage / current	- / -	- / -	
Usegroup D, rated voltage / current	300 V / 11 A stranded, 9 A solid	300 V / 12 A	
Contact resistance	max. 15 mOhm		
Insulation resistance	min. 10^9 Ohm (500 V DC)		
Temperature range	-40°C ... +110°C		
Termination technology	push-in		
Insertion force	max. 3 N		
Withdrawal force	min. 1.5 N		
Hot plugging	No		
Mechanical Shock IEC 61373 (05/10)	5 g, 30 ms, 5 shocks/axis and each direction no contact disturbance >= 1 µs		for p/n ...6xxx
Random Vibration IEC 61373 (05/10)	Cat 1 class B 5,72 m/s^2 no contact disturbance >=1 µs		for p/n ...6xxx
Vibration	10-150 Hz, 0.35 mm, 5 g, 2 h each axes -> No contact disturbance >= 1 µs		for p/n ...2xxx
RoHS - compliant	Yes		
UL file	E314677		

Isulator material

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

Contact material

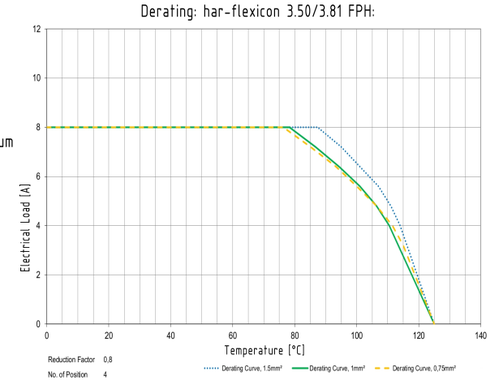
	contact zone	**termination zone (spring)**
Contact material	Copper alloy	EN 1.4310 / AISI 301
Plating	Sn	no

Derating

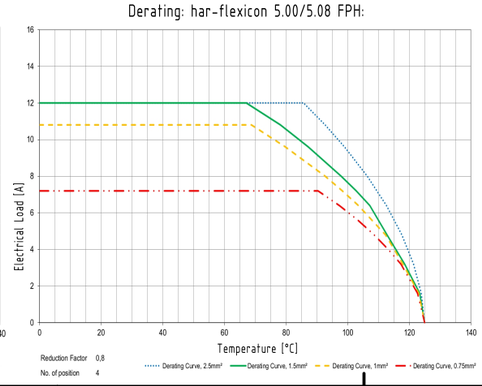
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

Control and test procedures according to DIN IEC 60512-5

Derating: har-flexicon 3.50/3.81 FPH:



Derating: har-flexicon 5.00/5.08 FPH:



Cable connection

Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00/5.08 FPH
Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx & 1431xx17102xxx
Conductor size AWG max	14 AWG	12 AWG
Conductor size AWG min	30 AWG	30 AWG
Conductor size solid max	1.5 mm^2	2.5 mm^2
Conductor size solid min	0.14 mm^2	0.2 mm^2
Conductor size stranded max	1.5 mm^2	2.5 mm^2
Conductor size stranded min	0.14 mm^2	0.2 mm^2
Conductor size stranded for end sleeve		
Stripping length max	10 mm	10 mm
Stripping length min	9 mm	10 mm

Packaging unit

types 3.50/3.81 FPH

Type of packaging	No. of poles (xx)	Quantity	MOQ	Index (xxx)	Remark
box	2	300	1	000	
box	3	200	1	000	
box	4 - 5	150	1	000	
box	6 - 12	100	1	000	
box	13 - 20	50	1	000	
box	21 - 25	25	1	-	

types 5.00/5.08 FPH

Type of packaging	No. of poles (xx)	Quantity	1	Index (xxx)	Remark
box	2	300	1	-	
box	3	200	1	-	
box	4 - 5	150	1	-	
box	6 - 12	100	1	-	
box	13 - 20	50	1	-	

1431xx14102xxx

All Dimensions in mm
Original Size DIN A3

Scale 1:1

Free size tol.

Ref.
Sub. DS 14312302001 / 500000077827 / 2014-07-31

Created by	Inspected by	Standardisation	Date	State
TADJE	LEHNERT	HOFFMANN	2015-10-15	Final Release

Department EC PD - DE

Title: har-flexicon female connector, horizontal, push-in

Doc-Key / ECM-Nr.: 100579786/UGD/000/C 500000093564

HARTING Electronics GmbH
D-32339 Espelkamp

Type DS | Number 14312302001 | Rev. C | Page 1/1

A3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HARTING:

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