



# har-flexicon female connector, horizontal, screwing



## General information

Design			
female connector			
Type	har-flexicon 3.50/3.81 FSH	har-flexicon 5.00 FSH & FSV	har-flexicon 5.08 FSH
Part numbers	1431xx14402xxx & 1431xx15402xxx	1431xx16402xxx & 1431xx16403xxx	1431xx17402xxx
Contact pitch	3.50 mm & 3.81 mm	5 mm	5.08 mm
No. of contacts	2-25 poles	2-25 poles	2-25 poles
Rated surge voltage (II/2):	2,5 kV	4 kV	4 kV (overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2):	2,5 kV	4 kV	4 kV (overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3):	2,5 kV	4 kV	4 kV (overvoltage cat. III / pollution degree 3)
Rated Voltage:	300 V	300 V	300 V
Rated voltage (II/2):	300 V	600 V	600 V (overvoltage cat. II / pollution degree 2)
Rated voltage (III/2):	150 V	300 V	300 V (overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	150 V	250 V	250 V (overvoltage cat. III / pollution degree 3)
Working current	11 A	15 A	15 A
Contact resistance	max. 15 mOhm		
Insulation resistance	min. 10 <sup>9</sup> Ohm (500 V DC)		
Temperature range	-40°C ... +110°C		
Termination technology	screwing		
Insertion force	max. 3		
Withdrawal force	min. 1,5		
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/PPA
Color	green
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	I (CTI > 600)

## Contact material

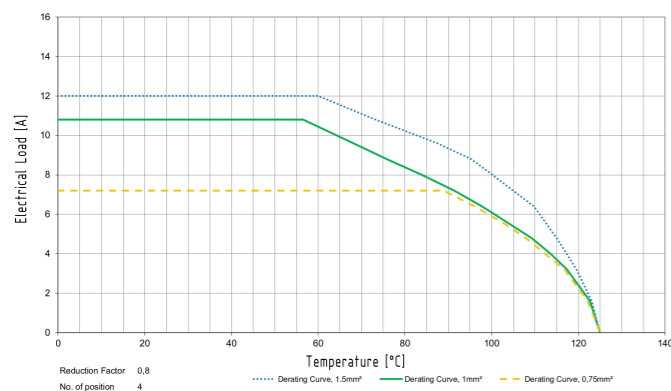
Contact material	Copper alloy
Plating termination zone	Ni
Plating contact zone	Sn

## Derating

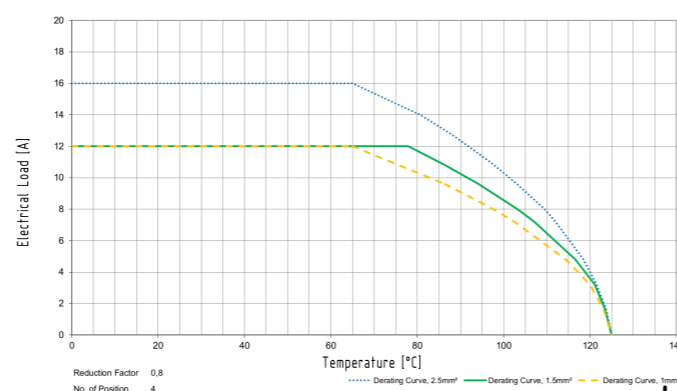
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.  
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

Control and test procedures according to DIN IEC 60512-5

Derating: har-flexicon 3.50/3.81 FSH:



Derating: har-flexicon 5.00/5.08 FSH:



## Cable connection

Type	har-flexicon 3.50/3.81 FSH	har-flexicon 5.00 FSH	har-flexicon 5.08 FSH
Part numbers	1431xx14402xxx & 1431xx15402xxx	1431xx16402xxx	1431xx17402xxx
Conductor size AWG max:	14 AWG	12 AWG	12 AWG
Conductor size AWG min:	30 AWG	30 AWG	30 AWG
Conductor size solid max:	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Conductor size solid min:	0.5mm <sup>2</sup>	0.05 mm <sup>2</sup>	0.05 mm <sup>2</sup>
Conductor size stranded max:	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Conductor size stranded min:	0.5 mm <sup>2</sup>	0.05 mm <sup>2</sup>	0.05 mm <sup>2</sup>
Conductor size stranded for end sleeve			
Stripping length max:	6 mm	7,5 mm	7,5 mm
Stripping length min:	5 mm	6 mm	6 mm
Screw thread:	M2	M3	M3
Tightening Torque max:	0.25 Nm	0.6 Nm	0.6 Nm
Tightening Torque min:	0.2 Nm	0.5 Nm	0.5 Nm

## 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 - 20	50	000	
box	21 - 25	25	000	

1431xx14402xxx



All Dimensions in mm  
Original Size DIN A3

Scale  
1:1

Free size tol.

Ref.

Sub.



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Created by  
ZWAHR

Inspected by  
TADJE

Standardisation  
HOFFMANN

Date  
2014-07-31

State  
Final Release

Title  
har-flexicon female connector, horizontal, screwing

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HARTING Electronics GmbH

D-32339 Espelkamp

Type  
DS

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Page  
1/1