



# har-flexicon female connector, vertical, screwing



### General information

Design			
female connector			
Type	har-flexicon 3.50/3.81 FSV	har-flexicon 5.08 FSV	
Part numbers	1431xx14401xxx & 1431xx15401xxx	1431xx17401xxx	
Contact pitch	3.5 mm & 3.81 mm	5.08 mm	
No. of contacts	2-25 poles	2-25 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	10 A	15 A	
Usegroup B, rated voltage / current	300 V / 10 A	300 V / 15 A	
Usegroup C, rated voltage / current	- / -	- / -	
Usegroup D, rated voltage / current	300 V / 10 A	300 V / 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	screw		
Insertion force	max. 3 N		
Withdrawal force	min. 1,5 N		
Hot plugging	No		
Vibration	10-150Hz,0,35mm,5g 2h each axes -> No contact disturbance > 1µs		
RoHS - compliant	Yes		
UL file	E314677		

### Insulator material

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

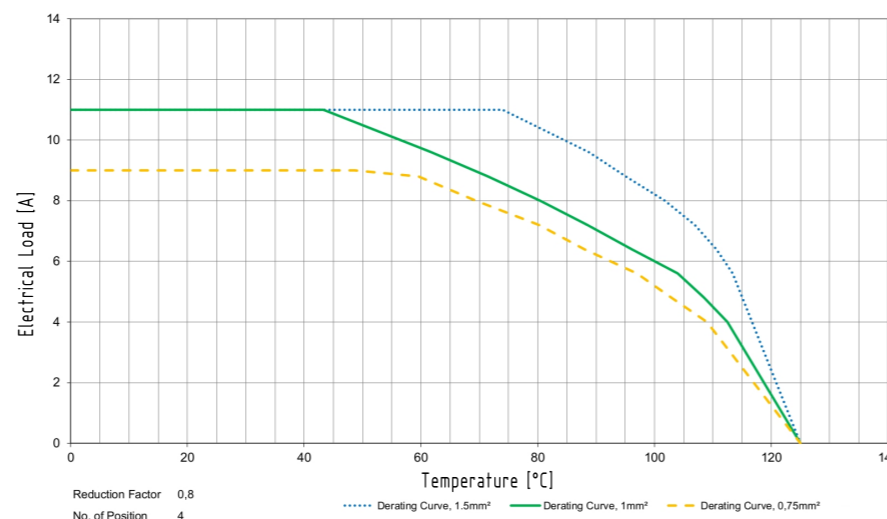
### Contact material

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



### Cable connection

Type	har-flexicon 3.50/3.81 FSV	har-flexicon 5.08 FSV
Part numbers	1431xx14401xxx & 1431xx15401xxx	1431xx17401xxx
Conductor size AWG max	14 AWG	12 AWG
Conductor size AWG min	30 AWG	30 AWG
Conductor size solid max	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Conductor size solid min	0.05 mm <sup>2</sup>	0.05 mm <sup>2</sup>
Conductor size stranded max	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Conductor size stranded min	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
Stripping length min	5 mm	6 mm
Screw thread	M2	M2
Tightening Torque max	0.25 Nm	0.6 Nm
Tightening Torque min	0.2 Nm	0.5 Nm

### Packaging unit

Type of packaging	No. of poles (xx)	Quantity	MOQ	Index (xxx)	Remark
box	2	300	1	000 = green, 163 = black	
box	3	200	1	000 = green, 163 = black	
box	4 - 5	150	1	000 = green, 163 = black	
box	6 - 12	100	1	000 = green, 163 = black	
box	13 - 20	50	1	000 = green, 163 = black	
box	21 - 25	25	1	000 = green, 163 = black	

1431xx14401xxx

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