



har-flexicon female connector, horizontal, push-in



General information

Design		female connector		
Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH	
Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx	
Contact pitch	3.50 mm & 3.81 mm	5 mm	5.08 mm	
No. of contacts	2-25 poles	2-18 poles	2-18 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	12 A	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			
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)

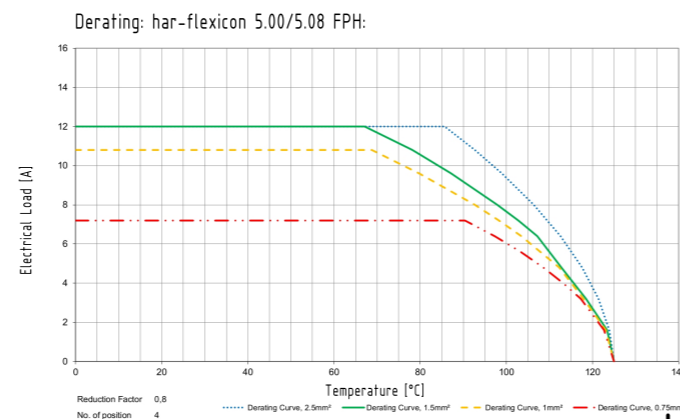
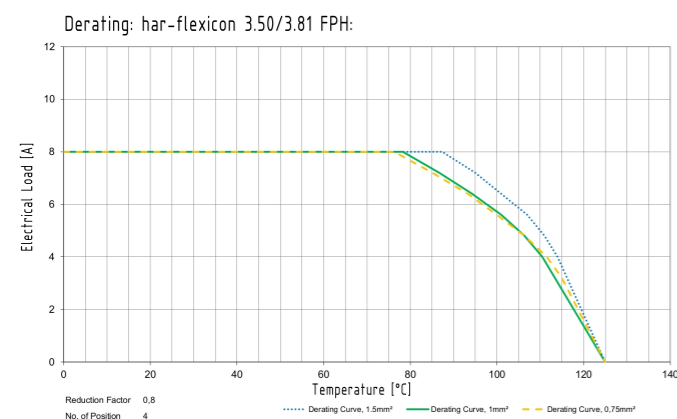
Contact material

	contact 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



Cable connection

Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH
Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx
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 ²	2.5 mm ²	2.5 mm ²
Conductor size solid min:	0.14 mm ²	0.2 mm ²	0.2 mm ²
Conductor size stranded max:	1.5 mm ²	2.5 mm ²	2.5 mm ²
Conductor size stranded min:	0.14 mm ²	0.2 mm ²	0.2 mm ²
Conductor size stranded for end sleeve			
Stripping length max:	10 mm	10 mm	10 mm
Stripping length min:	9 mm	10 mm	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 - 20	50	000	
box	21 - 25	25	000	

1431xx14102xxx

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