



# har-flexicon male connector, horizontal, SMC



### General information

Design	male connector		
Type	har-flexicon 3.50/3.81 MTH	har-flexicon 5.00 MTH	har-flexicon 5.08 MTH
Part numbers	1412xx14002xxx & 1412xx15002xxx	1412xx16002xxx	1412xx17002xxx
Contact pitch	3.5 mm & 3.81 mm	5mm	5.08 mm
No. of contacts	2-25 poles	2-19 poles	2-12 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	THR/SMC Reflow		
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	black
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	I (CTI > 600)

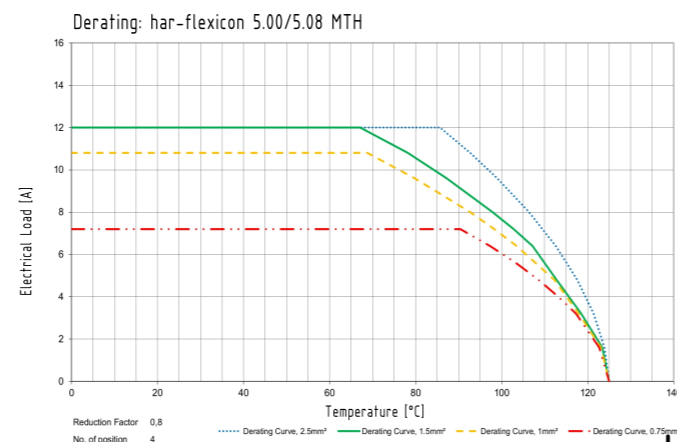
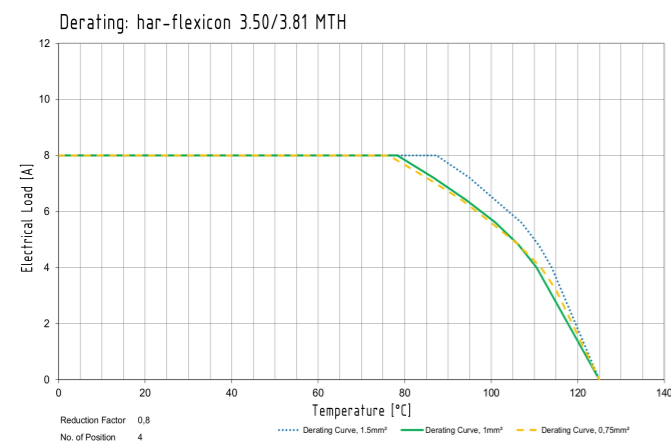
### Contact material

Contact material	Copper alloy
Plating termination zone	Sn
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



### Packging unit

Type of packaging	No. of poles (xx)	Quantity	Index (xxx)	Remark
tropical bag	2 - 3	100	000	
tropical bag	4 - 5	75	000	
tropical bag	6 - 20	50	000	
tropical bag	21 - 25	25	000	
tropical bag	2 - 6	10	333	samples
tropical bag	7 - 12	5	333	samples

1412xx14002xxx

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