



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 & 1412xx15006xxx | 1412xx16002xxx | 1412xx17002xxx & 1412xx17006xxx |
| Contact pitch | 3.5 mm & 3.81 mm | 5mm | 5.08 mm |
| No. of contacts | 2-25 poles | 2-19 poles | 2-20 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 |
| Usegroup B, rated voltage / current | 300 V / 11 A | 300 V / 15 A | 300 V / 15 A |
| Usegroup C, rated voltage / current | - / - | - / - | - / - |
| Usegroup D, rated voltage / current | 300 V / 11 A | 300 V / 15 A | 300 V / 15 A |
| Contact resistance | max. 15 mOhm | | |
| Insulation resistance | min. 10 ⁹ Ohm (500 V DC) | | |
| Temperature range | -40°C ... +110°C | | |
| Termination technology | THR/SMC Reflow | | |
| 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 | black |
| UL classification | UL 94-V0 |
| Material group acc. to IEC 60664-1 | I (CTI > 600) |

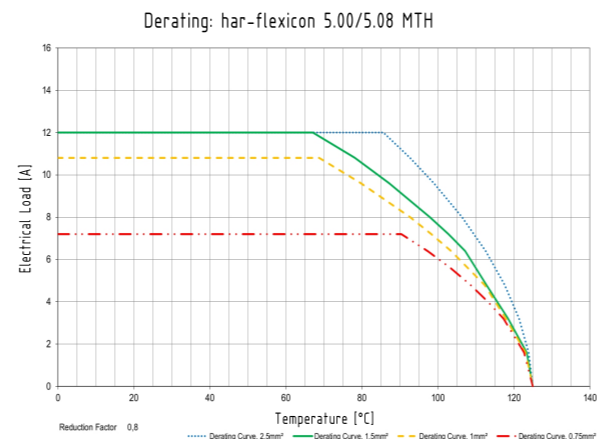
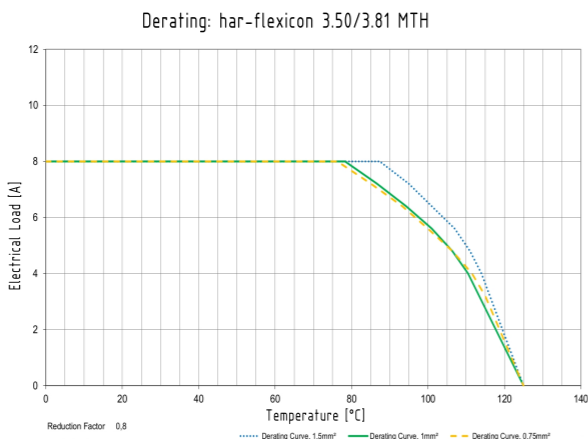
Contact material

| | |
|--------------------------|--------------|
| Contact material | Copper alloy |
| Plating termination zone | Sn |
| Plating contact zone | Sn |

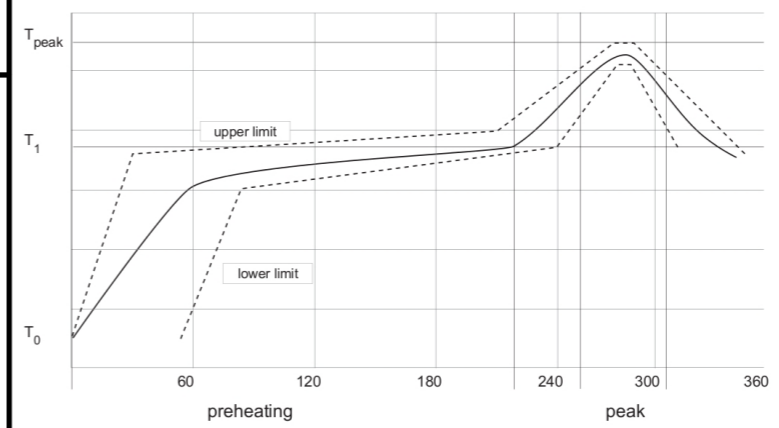
Derating

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



Soldering instructions for lead-free tin soldering



preheating
 T₀ 25°C (77°F)
 T₁ from 150°C (302°F) to 190°C (374°F)
 time from 150s to 180s
 gradient 1,5°C/s (34°F/s)

peak
 T_{peak} from 260°C (500°F) to 275°C (527°F)
 time from 10s to 30s

har-flexicon SMC products with pure tin plated pins without lead, can be soldered by a lead-free reflow process, with a peak temperature till 275°C/527°F according to the related profile.

Packging unit

types 5.00/5.08 MTH

| Type of packaging | No. of poles (xx) | Quantity | MOQ | Index (xxx) | Remark |
|-------------------|-------------------|----------|-----|-------------|---------|
| tropical bag | 2 - 3 | 100 | 100 | 000 | |
| tropical bag | 4 - 5 | 75 | 75 | 000 | |
| tropical bag | 6 - 20 | 50 | 50 | 000 | |
| box | 2 - 20 | 1 | 1 | 333 | samples |

types 3.50/3.81 MTH

| Type of packaging | No. of poles (xx) | Quantity | MOQ | Index (xxx) | Remark |
|-------------------|-------------------|----------|-----|-------------|---------|
| tropical bag | 2 - 3 | 100 | 100 | 000 | |
| tropical bag | 4 - 5 | 75 | 75 | 000 | |
| tropical bag | 6 - 20 | 50 | 50 | 000 | |
| tropical bag | 21 - 25 | 25 | 25 | 000 | |
| box | 2 - 20 | 1 | 1 | 333 | samples |

1412xx14002xxx

| | | | | | | |
|--------------------------|-----------------------|--|------------------------|--|-----------------|---------------------|
| | All rights reserved | Created by TADJE | Inspected by ELLERMANN | Standardisation HOFFMANN | Date 2016-06-02 | State Final Release |
| | Department EC PD - DE | Title har-flexicon male connector, horizontal, SMC | | Doc-Key / ECM-Nr. 100579724/UGD/000/D 500000105082 | | |
| HARTING Electronics GmbH | | Type DS | Number 14121300201 | | Rev. D | Page 1/1 |
| D-32339 Espelkamp | | | | | | |

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