



har-flexicon female connector, horizontal, push-in



General information

| Design | | female connector | |
|-------------------------------------|---|---|---|
| Type | har-flexicon 3.50/3.81 FPH | har-flexicon 5.00/5.08 FPH | |
| Part numbers | 1431xx14102xxx & 1431xx14106xxx 1431xx15102xxx & 1431xx15106xxx | 1431xx16102xxx 1431xx17102xxx & 1431xx17106xxx | |
| Contact pitch | 3.50 mm / 3.81 mm | 5 mm / 5.08 mm | |
| No. of contacts | 2-25 poles | 2-18 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 | 11 A | 12 A | |
| Usegroup B, rated voltage / current | 300 V / 11 A stranded, 9 A solid | 300 V / 12 A | |
| Usegroup C, rated voltage / current | - / - | - / - | |
| Usegroup D, rated voltage / current | 300 V / 11 A stranded, 9 A solid | 300 V / 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 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 | | |

Insulator material

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

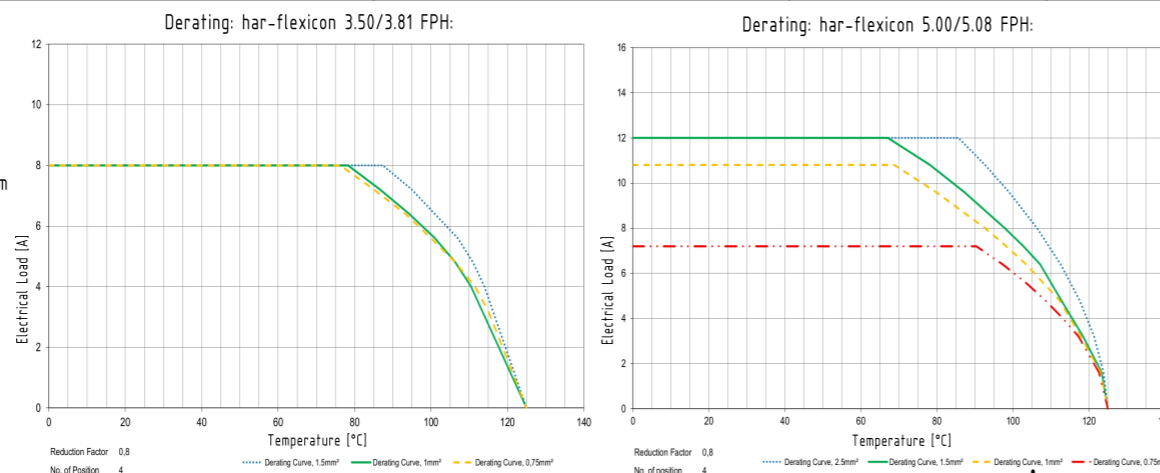
Contact material

| | contact 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 5.00/5.08 FPH |
|--|---------------------------------|---------------------------------|
| Part numbers | 1431xx14102xxx & 1431xx15102xxx | 1431xx16102xxx & 1431xx17102xxx |
| Conductor size AWG max | 14 AWG | 12 AWG |
| Conductor size AWG min | 30 AWG | 30 AWG |
| Conductor size solid max | 1.5 mm ² | 2.5 mm ² |
| Conductor size solid min | 0.14 mm ² | 0.2 mm ² |
| Conductor size stranded max | 1.5 mm ² | 2.5 mm ² |
| Conductor size stranded min | 0.14 mm ² | 0.2 mm ² |
| Conductor size stranded for end sleeve | | |
| Stripping length max | 10 mm | 10 mm |
| Stripping length min | 9 mm | 10 mm |

Packaging unit

types 3.50/3.81 FPH

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

types 5.00/5.08 FPH

| Type of packaging | No. of poles (xx) | Quantity | 1 | Index (xxx) | Remark |
|-------------------|-------------------|----------|---|-------------|--------|
| box | 2 | 300 | 1 | - | |
| box | 3 | 200 | 1 | - | |
| box | 4 - 5 | 150 | 1 | - | |
| box | 6 - 12 | 100 | 1 | - | |
| box | 13 - 20 | 50 | 1 | - | |

1431xx14102xxx

| | | | | | | |
|--------------------------|-----------------------|--|----------------------|---|--|---------------------|
| | All rights reserved | Created by TADJE | Inspected by LEHNERT | Standardisation HOFFMANN | Date 2015-10-15 | State Final Release |
| | Department EC PD - DE | Title har-flexicon female connector, horizontal, push-in | | Doc-Key / ECM-Nr. 100579786/UGD/000/C 50000093564 | | |
| HARTING Electronics GmbH | | Type DS | Number 14312302001 | | Rev. C | Page 1/1 |
| D-32339 Espelkamp | | All Dimensions in mm Original Size DIN A3 | | Scale 1:1 | Free size tol. Ref. Sub. DS 14312302001 / 50000077827 / 2014-07-31 | |