



har-flexicon 2,54 female connector



General information

| | |
|-------------------------------|--|
| Design | female connector |
| No. of contacts | 2-12 pole |
| Contact pitch | 2,54 mm |
| Test voltage | 2,5 kV |
| Rated voltage | 160 V overvoltage category III / pollution degree 2 |
| Contact resistance | max. 20mOhm |
| Insulation resistance | min. 10 ⁹ Ohm |
| Working current | 7,3 A at 70°C (tested with AWG20, see derating diagram) |
| Temperature range | -40°C ... +125°C |
| Termination technology | Push-In spring cage |
| Reflow processing temperature | 20s at 255°C |
| Clearance & creepage distance | Clearance: 1,5 mm Creepage: 1,6 mm |
| Insertion force | max. 5 N per contact |
| Withdrawal force | min. 1 N per contact |
| Mating cycles | 10 cycles |
| Hot plugging | No |
| vibration | 5-150Hz, 0,35mm, 5g, 2h each axis |
| RoHS - compliant | Yes |
| UL file | E 102079 |

Insulator material

| | |
|---------------------------------|---|
| Material | LCP (liquid crystalline polymer, glass fiber reinforcement 30%) |
| Color | black, white |
| UL classification | UL 94-V0 |
| Material group acc. IEC 60664-1 | IIIa (175 < CTI < 400) |
| NFF classification | - |

Contact material

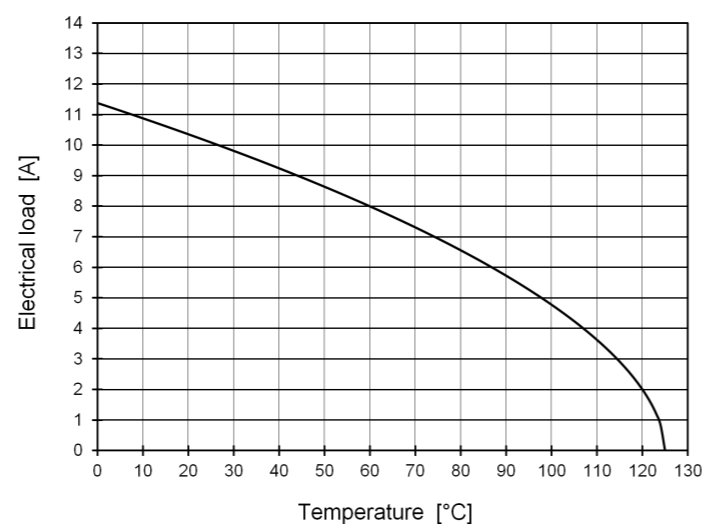
| | |
|--------------------------|--------------|
| Contact material | Copper alloy |
| Plating termination zone | Sn |
| Plating contact zone | Sn |

Derating diagram acc. to IEC 60512-5-2 (Current carrying capacity)

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.

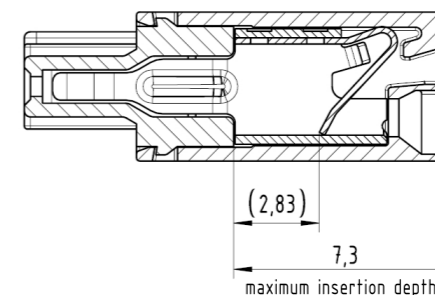
Control and test procedures according to DIN IEC 60512-5-2



tested with AWG20

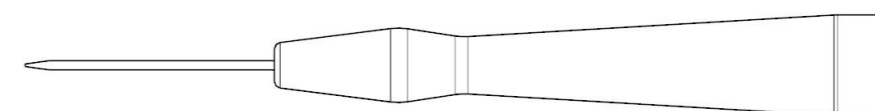
Connection data

| | |
|---|---|
| Conductor cross section solid min./max. | 0,14mm ² / 0,5mm ² |
| Conductor cross section stranded min./max. | 0,2mm ² / 0,5mm ² |
| Conductor cross section stranded, with ferrule, min./max. | 0,25mm ² / 0,34mm ² |
| Max. conductor size: solid/stranded (with a reduction of the voltage to 32V at III/2) | 0,75mm ² |
| Max. insulation diameter | 2,1 mm |
| Minimum AWG | 26 |
| Maximum AWG | 20 |
| Stripping length | 6 mm |
| Reconnection | 10 times (only with same or larger cross section) |
| Maximum cable insertion depth | 7,3 max. |



Recommended tools

| | |
|-------------|-------------|
| part number | 14990000001 |
|-------------|-------------|



Packaging

| Packaging | | MOQ | Index | |
|-------------------|----------|-----|-------|--------|
| No. of poles (XX) | Quantity | | black | white* |
| 2 - 4 | 100 | 1 | 000 | 160 |
| 5 - 7 | 75 | 1 | 000 | 160 |
| 8 - 10 | 50 | 1 | 000 | 160 |
| 11 - 12 | 25 | 1 | 000 | 160 |

| | |
|-------------|----------------|
| part-number | 1431XX13101XXX |
|-------------|----------------|

* only versions with 2 and 3 poles available

| | | | | | | |
|---|---------------------|--|--------------------|--|-----------------|---------------------|
| | All rights reserved | Created by ZHUANGJ | Inspected by LUOK | Standardisation HOFFMANN | Date 2019-10-09 | State Final Release |
| | Department EL PD | Title har-flexicon 2,54 female connector | | Doc-Key / ECM-Nr. 100550636/UGD/001/F 500000158826 | | |
| HARTING Electronics GmbH D-32339 Espelkamp | | Type DS | Number 14312102001 | | Rev. F | Page 1/1 |

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