



# har-flexicon 2.54 female connector



## General information

Design	female connector
No. of contacts	2-12 poles
Contact pitch	2,54 mm
Test voltage	2,5 kV
Rated voltage	160 V <span style="float: right;">overvoltage category III / pollution degree 2</span>
Contact resistance	max. 20mOhm
Insulation resistance	min. 10 <sup>9</sup> 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 <span style="float: right;">Creepage: 1,6 mm</span>
Insertion force	max. 5 N per contact
Withdrawal force	min. 1 N per contact
Mating cycles	10 cycles
Hot plugging	No
vibration	10-150Hz, 0,35mm, 5g, 2h each axis
RoHS - compliant	Yes
UL file	pending

## Insulator material

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

## Contact material

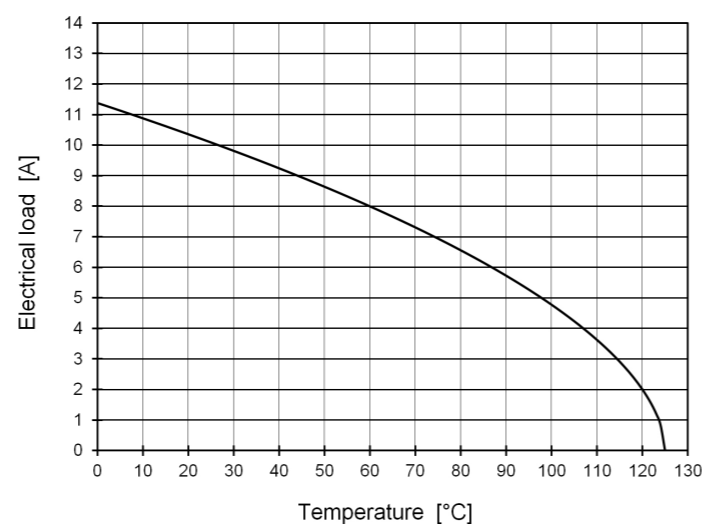
Contact material	Copper alloy
Plating termination zone	Sn
Plating contact zone	Sn

## Derating diagram acc. to IEC 60512-5 (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



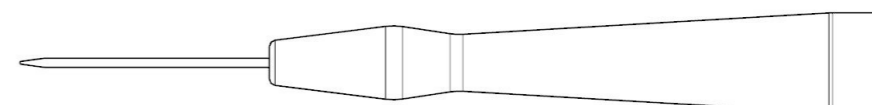
tested with AWG20

## Connection data

Conductor cross section solid min./max.	0.14mm <sup>2</sup> / 0.5mm <sup>2</sup>
Conductor cross section stranded min./max.	0.2mm <sup>2</sup> / 0.5mm <sup>2</sup>
Conductor cross section stranded, with ferrule, min./max.	0.25mm <sup>2</sup> / 0.34mm <sup>2</sup>
Minimum AWG	26
Maximum AWG	20
Stripping length	6 mm
Reconnection	10 times (only with same or larger cross section)

## Recommended tools

part number	14-990000001
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