



har-flexicon female connector, vertical, screwing



General information

Design	female connector	
Type	har-flexicon 3.50/3.81 FSV	
Part numbers	1431xx14401xxx & 1431xx15401xxx	
Contact pitch	3.5 mm & 3.81 mm	
No. of contacts	2-25 poles	
Rated surge voltage (II/2):	2,5 kV	(overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2):	2,5 kV	(overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3):	2,5 kV	(overvoltage cat. III / pollution degree 3)
Rated Voltage:	300 V	
Rated voltage (II/2):	300 V	(overvoltage cat. II / pollution degree 2)
Rated voltage (III/2):	150 V	(overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	150 V	(overvoltage cat. III / pollution degree 3)
Working current	10 A	
Contact resistance	max. 15 mOhm	
Insulation resistance	min. 10 ⁹ Ohm (500 V DC)	
Temperature range	-40°C ... +110°C	
Termination technology	screw	
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	green
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	I (CTI > 600)

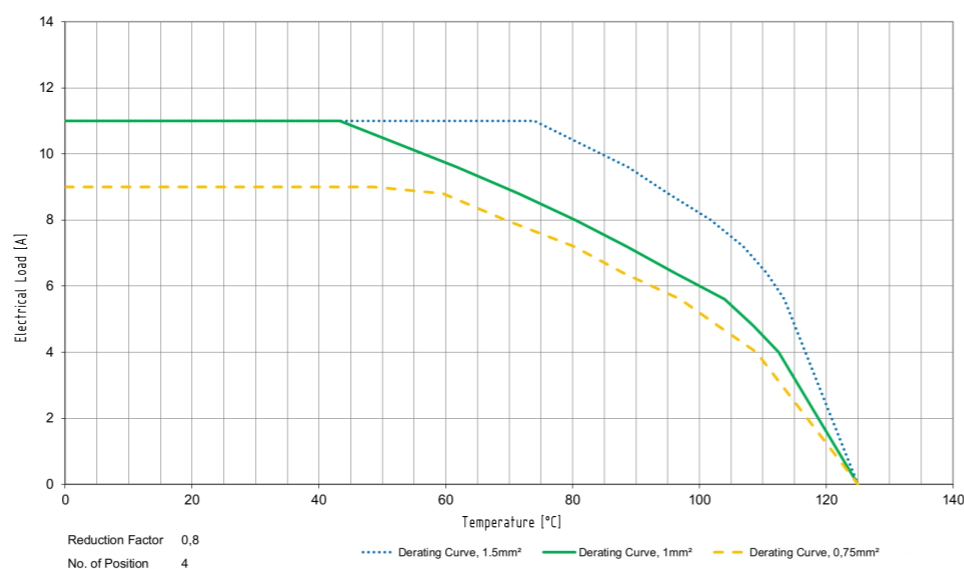
Contact material

Contact material	Copper alloy
Plating termination zone	Ni
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



Cable connection

Type	har-flexicon 3.50/3.81 FSV	
Part numbers	1431xx14401xxx & 1431xx15401xxx	
Conductor size AWG max:	14 AWG	
Conductor size AWG min:	30 AWG	
Conductor size solid max:	1.5 mm ²	
Conductor size solid min:	0.05 mm ²	
Conductor size stranded max:	1.5 mm ²	
Conductor size stranded min:	0.05 mm ²	
Conductor size stranded for end sleeve		
Stripping length max:	6 mm	
Stripping length min:	5 mm	
Screw thread:	M2	
Tightening Torque max:	0.25 Nm	
Tightening Torque min:	0.2 Nm	

Packaging unit

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

1431xx14401xxx

	All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.	Ref.	Sub.	
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HARTING Electronics GmbH D-32339 Espelkamp		Title har-flexicon female connector, vertical, screwing		Doc-Key / ECM-Nr. 100579803/UGD/000/B 500000077827		
		Type DS	Number 14312401201	Rev. B	Page 1/1	