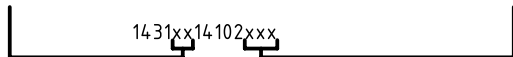
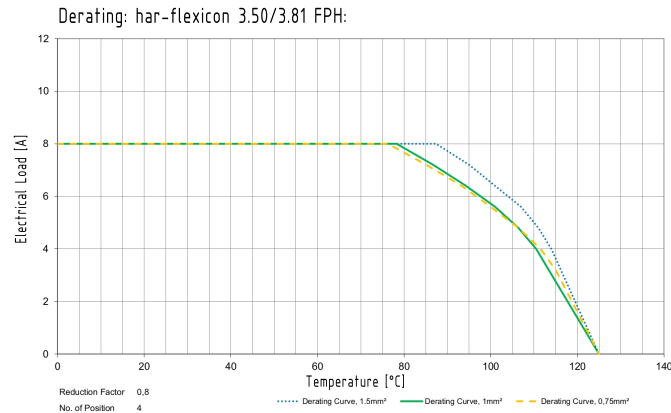
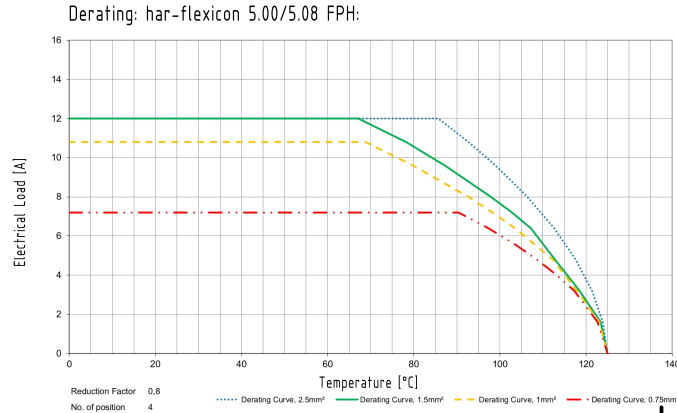


1	2	3	4	5	6	7	8																																																																																									
A	 har-flexicon female connector, horizontal, push-in RoHS compliant 			Cable connection <table><tr><td>Type</td><td>har-flexicon 3.50/3.81 FPH</td><td>har-flexicon 5.00 FPH</td><td>har-flexicon 5.08 FPH</td></tr><tr><td>Part numbers</td><td>1431xx14102xxx & 1431xx15102xxx</td><td>1431xx16102xxx</td><td>1431xx17102xxx</td></tr><tr><td>Conductor size AWG max:</td><td>14 AWG</td><td>12 AWG</td><td>12 AWG</td></tr><tr><td>Conductor size AWG min:</td><td>30 AWG</td><td>30 AWG</td><td>30 AWG</td></tr><tr><td>Conductor size solid max:</td><td>1.5 mm²</td><td>2.5 mm²</td><td>2.5 mm²</td></tr><tr><td>Conductor size solid min:</td><td>0.14 mm²</td><td>0.2 mm²</td><td>0.2 mm²</td></tr><tr><td>Conductor size stranded max:</td><td>1.5 mm²</td><td>2.5 mm²</td><td>2.5 mm²</td></tr><tr><td>Conductor size stranded min:</td><td>0.14 mm²</td><td>0.2 mm²</td><td>0.2 mm²</td></tr><tr><td>Conductor size stranded for end sleeve</td><td></td><td></td><td></td></tr><tr><td>Stripping length max:</td><td>10 mm</td><td>10 mm</td><td>10 mm</td></tr><tr><td>Stripping length min:</td><td>9 mm</td><td>10 mm</td><td>10 mm</td></tr></table>				Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH	Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx	Conductor size AWG max:	14 AWG	12 AWG	12 AWG	Conductor size AWG min:	30 AWG	30 AWG	30 AWG	Conductor size solid max:	1.5 mm ²	2.5 mm ²	2.5 mm ²	Conductor size solid min:	0.14 mm ²	0.2 mm ²	0.2 mm ²	Conductor size stranded max:	1.5 mm ²	2.5 mm ²	2.5 mm ²	Conductor size stranded min:	0.14 mm ²	0.2 mm ²	0.2 mm ²	Conductor size stranded for end sleeve				Stripping length max:	10 mm	10 mm	10 mm	Stripping length min:	9 mm	10 mm	10 mm	A																																												
Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH																																																																																													
Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx																																																																																													
Conductor size AWG max:	14 AWG	12 AWG	12 AWG																																																																																													
Conductor size AWG min:	30 AWG	30 AWG	30 AWG																																																																																													
Conductor size solid max:	1.5 mm ²	2.5 mm ²	2.5 mm ²																																																																																													
Conductor size solid min:	0.14 mm ²	0.2 mm ²	0.2 mm ²																																																																																													
Conductor size stranded max:	1.5 mm ²	2.5 mm ²	2.5 mm ²																																																																																													
Conductor size stranded min:	0.14 mm ²	0.2 mm ²	0.2 mm ²																																																																																													
Conductor size stranded for end sleeve																																																																																																
Stripping length max:	10 mm	10 mm	10 mm																																																																																													
Stripping length min:	9 mm	10 mm	10 mm																																																																																													
B	General information <table><tr><td>Design</td><td colspan="3">female connector</td></tr><tr><td>Type</td><td>har-flexicon 3.50/3.81 FPH</td><td>har-flexicon 5.00 FPH</td><td>har-flexicon 5.08 FPH</td></tr><tr><td>Part numbers</td><td>1431xx14102xxx & 1431xx15102xxx</td><td>1431xx16102xxx</td><td>1431xx17102xxx</td></tr><tr><td>Contact pitch</td><td>3.50 mm & 3.81 mm</td><td>5 mm</td><td>5.08 mm</td></tr><tr><td>No. of contacts</td><td>2-25 poles</td><td>2-18 poles</td><td>2-18 poles</td></tr><tr><td>Rated surge voltage (II/2):</td><td>2,5 kV</td><td>4 kV</td><td>4 kV (overvoltage cat. II / pollution degree 2)</td></tr><tr><td>Rated surge voltage (III/2):</td><td>2,5 kV</td><td>4 kV</td><td>4 kV (overvoltage cat. III / pollution degree 2)</td></tr><tr><td>Rated surge voltage (III/3):</td><td>2,5 kV</td><td>4 kV</td><td>4 kV (overvoltage cat. III / pollution degree 3)</td></tr><tr><td>Rated Voltage:</td><td>300 V</td><td>300 V</td><td>300 V</td></tr><tr><td>Rated voltage (II/2):</td><td>300 V</td><td>600 V</td><td>600 V (overvoltage cat. II / pollution degree 2)</td></tr><tr><td>Rated voltage (III/2):</td><td>150 V</td><td>300 V</td><td>300 V (overvoltage cat. III / pollution degree 2)</td></tr><tr><td>Rated voltage (III/3):</td><td>150 V</td><td>250 V</td><td>250 V (overvoltage cat. III / pollution degree 3)</td></tr><tr><td>Working current</td><td>11 A</td><td>12 A</td><td>12 A</td></tr><tr><td>Contact resistance</td><td colspan="3">max. 15 mOhm</td></tr><tr><td>Insulation resistance</td><td colspan="3">min. 10⁹ Ohm (500 V DC)</td></tr><tr><td>Temperature range</td><td colspan="3">-40°C ... +110°C</td></tr><tr><td>Termination technology</td><td colspan="3">push-in</td></tr><tr><td>Insertion force</td><td colspan="3">max. 3</td></tr><tr><td>Withdrawal force</td><td colspan="3">min. 1,5</td></tr><tr><td>Hot plugging</td><td colspan="3">No</td></tr><tr><td>Vibration</td><td colspan="3">10-150Hz,0,35mm,5g 2h each axes -> No contact disturbance > 1µs</td></tr><tr><td>RoHS - compliant</td><td colspan="3">Yes</td></tr><tr><td>UL file</td><td colspan="3">E314677</td></tr></table>			Design	female connector			Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH	Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx	Contact pitch	3.50 mm & 3.81 mm	5 mm	5.08 mm	No. of contacts	2-25 poles	2-18 poles	2-18 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	12 A	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			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			B
Design	female connector																																																																																															
Type	har-flexicon 3.50/3.81 FPH	har-flexicon 5.00 FPH	har-flexicon 5.08 FPH																																																																																													
Part numbers	1431xx14102xxx & 1431xx15102xxx	1431xx16102xxx	1431xx17102xxx																																																																																													
Contact pitch	3.50 mm & 3.81 mm	5 mm	5.08 mm																																																																																													
No. of contacts	2-25 poles	2-18 poles	2-18 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	12 A	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																																																																																															
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																																																																																															
C	Packging unit <table><tr><td>Type of packaging</td><td>No. of poles (xx)</td><td>Quantity</td><td>Index (xxx)</td><td>Remark</td></tr><tr><td>box</td><td>2</td><td>300</td><td>000</td><td></td></tr><tr><td>box</td><td>3</td><td>200</td><td>000</td><td></td></tr><tr><td>box</td><td>4 - 5</td><td>150</td><td>000</td><td></td></tr><tr><td>box</td><td>6 - 12</td><td>100</td><td>000</td><td></td></tr><tr><td>box</td><td>13 - 20</td><td>50</td><td>000</td><td></td></tr><tr><td>box</td><td>21 - 25</td><td>25</td><td>000</td><td></td></tr></table> 1431xx14102xxx 			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		C																																																									
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																																																																																													
D	Isulator material <table><tr><td>Material</td><td>PA/PPA</td></tr><tr><td>Color</td><td>green</td></tr><tr><td>UL classification</td><td>UL 94-V0</td></tr><tr><td>Material group acc. to IEC 60664-1</td><td>I (CTI > 600)</td></tr></table> Contact material <table><tr><td></td><td>contact zone</td><td>termination zone (spring)</td></tr><tr><td>Contact material</td><td>Copper alloy</td><td>EN 1.4310 / AISI 301</td></tr><tr><td>Plating</td><td>Sn</td><td>no</td></tr></table>			Material	PA/PPA	Color	green	UL classification	UL 94-V0	Material group acc. to IEC 60664-1	I (CTI > 600)		contact zone	termination zone (spring)	Contact material	Copper alloy	EN 1.4310 / AISI 301	Plating	Sn	no	D																																																																											
Material	PA/PPA																																																																																															
Color	green																																																																																															
UL classification	UL 94-V0																																																																																															
Material group acc. to IEC 60664-1	I (CTI > 600)																																																																																															
	contact zone	termination zone (spring)																																																																																														
Contact material	Copper alloy	EN 1.4310 / AISI 301																																																																																														
Plating	Sn	no																																																																																														
E	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 Derating: har-flexicon 3.50/3.81 FPH:  Derating: har-flexicon 5.00/5.08 FPH: 			E																																																																																												
F	 All rights reserved Department EC PD - DE HARTING Electronics GmbH D-32339 Espelkamp Scale 1:1 Free size tol. Created by ZWAHR Inspected by TADJE Standardisation HOFFMANN Title har-flexicon female connector, horizontal, push-in Type DS Number 14312302001 Ref. Sub. Doc-Key / ECM-Nr. 100579786/UGD/000/B 500000077827 Rev. B Page 1/1 Date 2014-07-31 State Final Release			F																																																																																												
1	2	3	4	5	6	7	8																																																																																									