



General information

Design	PCB male connector, horizontal	
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	SMT	
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

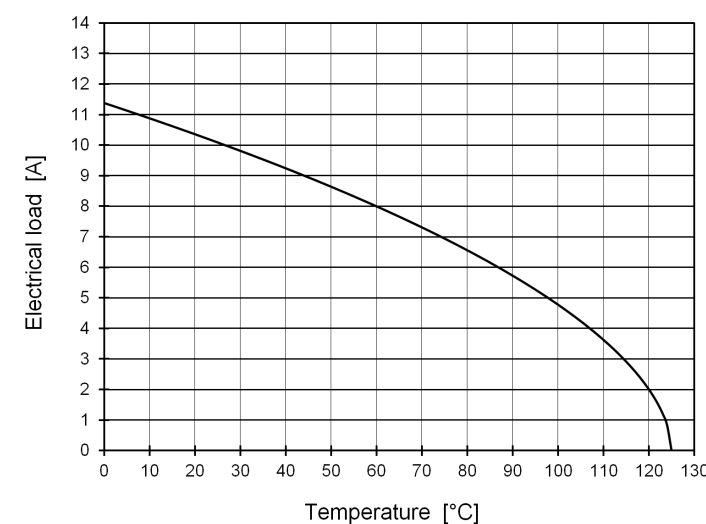
Contact material	Copper alloy
Plating termination zone	Sn over Ni
Plating contact zone	Sn over Ni

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

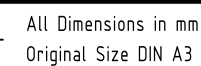
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.

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



Department EC PD - CN

HARTING Electronics GmbH
D-32339 Espelkamp

Scale
1:1

Created by
ZHUANGJ

Title	har-flexicon 2.54 male connector horizontal
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Type DS

Free size tol.	
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Standardisation
HOFFMANN

Ref.

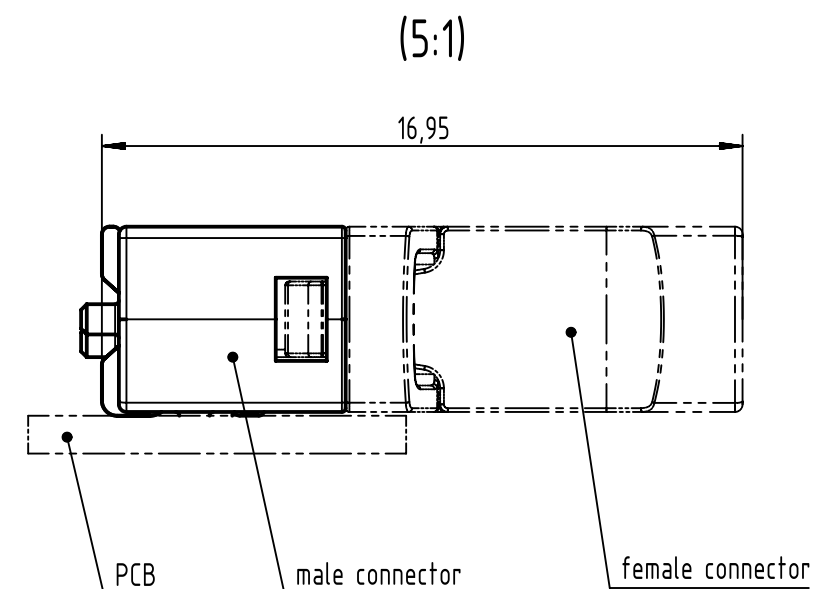
Sub. DS 14111300301 / 500000094808 / 2015-09-25

Date	2018-05-17
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State
Final Release

Doc-Key / ECM-Nr.
100549863/UGD/001/F
500000135281

Rev. F

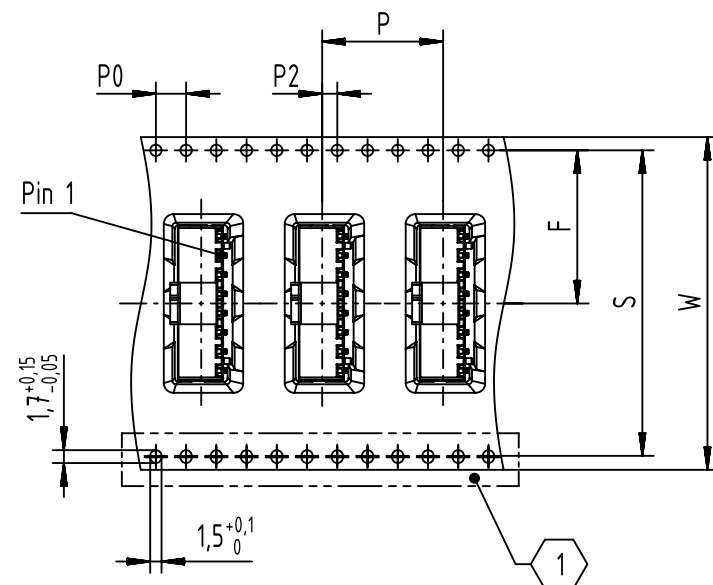
Page
1/2



har-flexicon 2.54 PCB male connector, horizontal



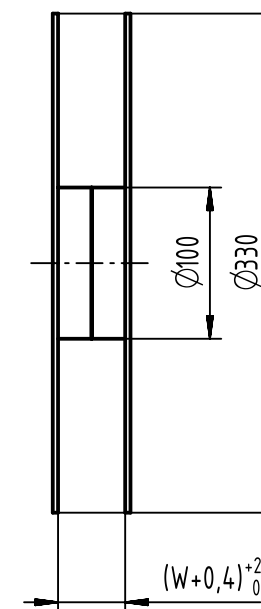
Packaging & tape layout



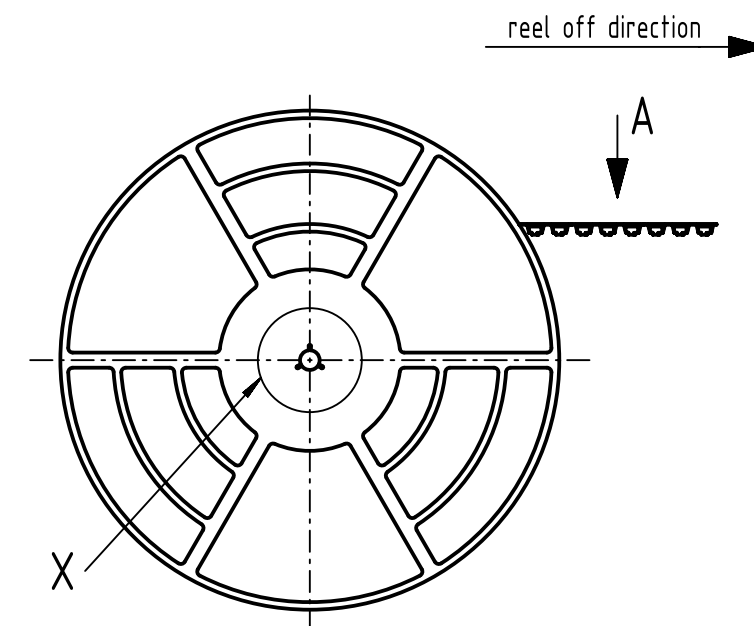
pole	W [mm]	F [mm]	S [mm]	P2 [mm]	P [mm]	P0 [mm]
2	24,0 ^{+0,3} _{-0,1}	11,5 ± 0,1		2,0 ± 0,1	16,0 ± 0,1	4,0 ± 0,1
3						
4	32,0 ± 0,3	14,2 ± 0,1	28,4 ± 0,1	2,0 ± 0,1	16,0 ± 0,1	4,0 ± 0,1
5						
6						
7						
8	44,0 ± 0,3	20,2 ± 0,1	40,4 ± 0,1	2,0 ± 0,15	16,0 ± 0,1	4,0 ± 0,1
9						
10						
11	56,0 ± 0,3	26,2 ± 0,1	52,4 ± 0,1	2,0 ± 0,15	16,0 ± 0,1	4,0 ± 0,1
12						

1 no double sprocket holes for 2- and 3-pole numbers

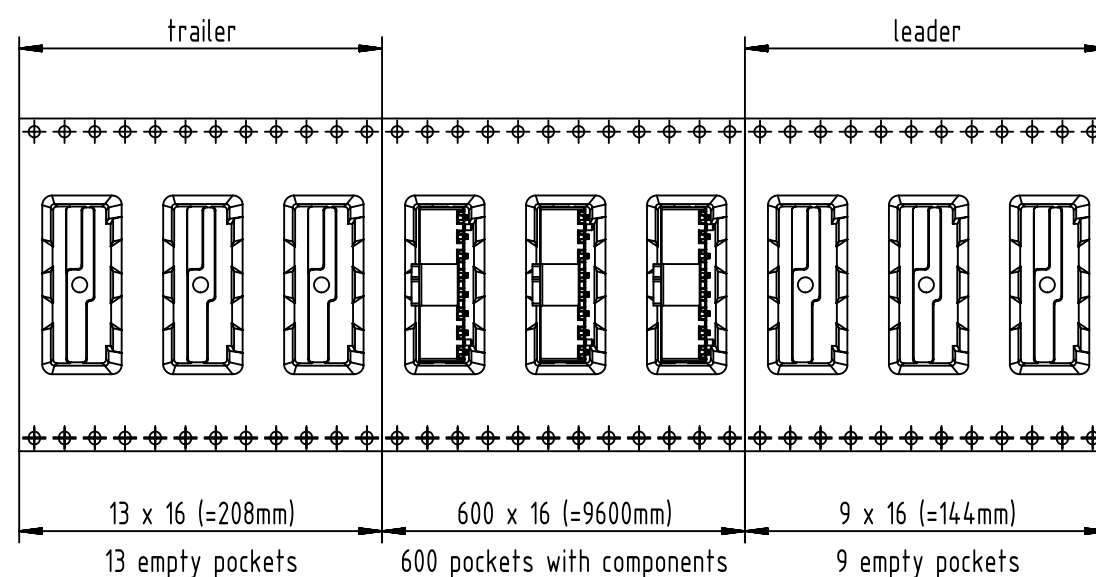
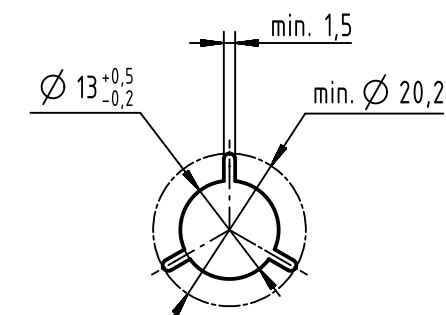
Packaging & tape layout



(1:5)



X (1:1)



Packaging	Index	
	black	white
tape and reel with 600 pcs per reel	000	160
tape with 1 pcs	333	334

part-number	1411 XX 130 YY XXX
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02 with guiding pins
10 w/o guiding pins

		All Dimensions in mm Original Size DIN A3		Scale 1:1		Free size tol.		Ref. Sub. DS 14111300301 / 500000094808 / 2015-09-25					
		All rights reserved Department EC PD - CN		Created by ZHUANGJ		Inspected by LUOK		Standardisation HOFFMANN		Date 2018-05-17		State Final Release	
HARTING Electronics GmbH D-32339 Espelkamp				Title har-flexicon 2.54 male connector horizontal								Doc-Key / ECM-Nr. 100549863/UGD/001/P 500000135281	
				Type DS		Number 14111300301						Rev. F	

Mouser Electronics

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