



# PushPull Signal 10-pole crimp connector



## General information

Design	PushPull Signal connector acc. to IEC/PAS 61076-3-119	
No. of contacts	10	
Contact pitch	horizontal x: 3 mm ; vertical y: 2.4 mm	
Test voltage	contact - contact: 1500 V	contact - shell: 1500 V
Rated voltage	50 V	overvoltage category II / pollution degree 2
Contact resistance	max. 10m Ohm	
Insulation resistance	min. 10 <sup>9</sup> Ohm	
Working current	5 A (see derating diagram)	
Temperature range	-40° C ... +70° C	
Mating cycles	250/500 (depending on used PL of the contacts)	
Termination technology	crimp	
Clearance & creepage distance	clearance: min. 1.15 mm	creepage: min. 1.15 mm
Insertion force	50 N	
Withdrawal force	50 N	

Hot plugging	No	
Vibration	10-500 Hz; 0.35 mm / 5 g; 10 sweep cycles	
Shock	50 g / 11 ms; 10 shocks per axis and direction	
RoHS - compliant	Yes	
UL file	pending	

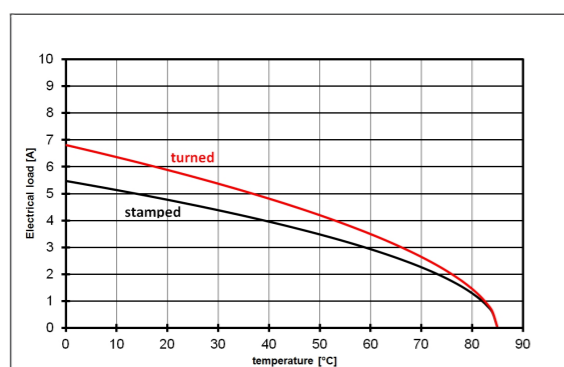
## Insulator material

Material	PA (Polyamid)
Color	black
UL classification	UL 94-V0
Material group acc. IEC 60664-1	I (600 < CTI)

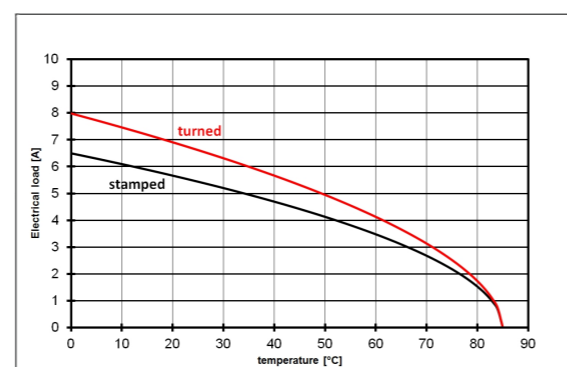
## Contact material

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

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



tested with 0.5 mm<sup>2</sup>



tested with 0.75 mm<sup>2</sup>

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.

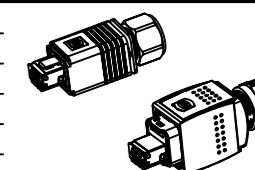
Control and test procedures acc. to IEC 60512-5-2

## Connection data

Termination	Crimping
Conductor cross section min./max.	0.09 mm <sup>2</sup> / 0.82 mm <sup>2</sup>
Minimum AWG	28
Maximum AWG	18
Insulation-diameter	max. 2.1 mm

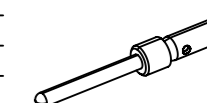
## Outer cable diameter

Connector sets for female contacts	Part No.	Cable-Ø	Material
HARTING PushPull V4 Signal, 10-pole plastic	09451459010	4.9 mm ... 8.6 mm	plastic housing
HARTING PushPull V4 Signal, 10-pole plastic	09451459011	4.5 mm ... 10.0 mm	plastic housing
Han® PushPull V14 Signal 10-pole metal	09352620401	7.0 mm ... 11.0 mm	metal housing
Han® PushPull V14 Signal 10-pole plastic	09352620423	4.0 mm ... 6.5 mm	plastic housing
Han® PushPull V14 Signal 10-pole metal	09352610401	4.0 mm ... 11.0 mm	metal housing
Han® PushPull V14 Signal 10-pole plastic	09352610421	6.5 mm ... 9.5 mm	plastic housing
Han® PushPull V14 Signal 10-pole plastic	09352610423	9.0 mm ... 13.0 mm	plastic housing



## Contacts

Plug-connector (female contact)	Part No.	Crimping tool
D Sub FE contact AWG 18-22 PL1 (turned)	09670003476	09990000501 + 09990000531
D Sub FE contact AWG 20-24 PL1 (turned)	09670008476	09990000501 + 09990000531
D Sub FE contact AWG20-24 PL2 (stamped)	09670008278	09990000175
HIFF-device insert (male contact)	Part No.	Crimping tool
D Sub MA contact AWG 18-22 PL1 (turned)	09670003576	09990000501 + 09990000531
D Sub MA contact AWG 20-24 PL1 (turned)	09670008576	09990000501 + 09990000531
D Sub MA contact AWG 20-24 PL2 (stamped)	09670008178	09990000175
D Sub MA contact AWG 22-26 PL1 (turned)	09670005576	09990000501 + 09990000531
D Sub MA contact AWG 24-28 PL1 (turned)	09670007576	09990000501 + 09990000531

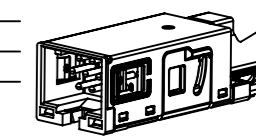


## Recommended tools

Part No.	09990000171	Insertion/removal tool
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## PushPull Signal insert (09455459010) is usable with following receptacle housings

HARTING PushPull V4 (receptacle housing)	Part No.	Material
HARTING PushPull V4 Compact	09455450028	plastic housing
HARTING PushPull V4 EasyInstall	09455450032	plastic housing
HARTING PushPull V4 Compact Housing HIFF	09455450041	plastic housing



Han® PushPull V14 (receptacle housing)	Part No.	Material
Han® PushPull V14 Metal rectangular	09350120311	metal housing
Han® PushPull V14 Metal circular	09350120312	metal housing
Han® PushPull V14 Plastic circular	09350120331	plastic housing

	All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.	Ref. Sub.
	All rights reserved Department EC PD - DE	Created by STORCK	Inspected by ELLERMANN	Standardisation HOFFMANN
		Date 2017-11-06	State Final Release	
HARTING Electronics GmbH D-32339 Espelkamp	Title PushPull Signal 10-pole crimp connector		Doc-Key / ECM-Nr. 100552688/UGD/001/F 500000127455	
	Type DS	Number 09450000801	Rev. F	Page 1/1

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