



# HARTING PushPull USB (V4)



## General information

Design	USB 2.0 / 3.0 acc. USB specification (see www.USB.org)		
No. of contacts	USB 2.0: 4-pole	USB 3.0: 9-pole	
Test voltage	500V AC peak contact-contact and contact-shielding		
Insulation resistance	4-pole: 1.6 MOhm min.	9-pole: 100 MOhm min.	
Current rating	1.5A @ 25°C min.		
Nominal voltage rating	30V DC		
Termination technology	depending on type THT soldering or pin header connection		
Reflow processing temperature	IPC/JEDEC J-STD 020D		
Insertion force / Withdrawal force	35N max. / 15N min.	(IP20 side / PushPull side)	
Contact resistance	30 mOhm max.		
Mating cycles	750		
Shock resistance (no contact disturbance > 1µs)	30g/11ms, 3 shocks/axis and direction; 5g/30ms, 3 shocks/axis and direction		
Vibration resistance	sinus vibration	5-500Hz, 2g, 0.75mm, 2h/axis	
(no contact disturbance > 1µs)	random vibration	5.35 Gs RMS 15min/axes and DIN EN 61373 class1 cat B 7.9m/s <sup>2</sup>	
Temperature range	-40°C ... +85°C		
Signaling Speed Rating	USB 2.0: max. 480Mbit/s	USB 3.0: max. 5Gbit/s	
Impedance resistance	90 Ohms +/- 15%		
RoHS - compliant	Yes		
Leadfree	Yes		

## Insulator material

Material	Engineering Thermoplastic and LCP (glass fiber reinforcement 30%)
Color	black
UL classification	UL 94 V-0

## Contact material

Contact material	Copper alloy
Plating soldering zone	Sn over Ni
Plating contact zone	Au over Ni



All Dimensions in mm  
Original Size DIN A4

Scale  
1:1

Free size tol.

Ref.

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