



HARTING PushPull USB (V4), system cable



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		
Locking	PushPull Technology acc. to IEC 61 076-3-106 variant 4		
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/s²	
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

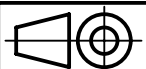
Material	Engineering Thermoplastic and LCP (glass fiber reinforcement 30%)
Colour	black
UL classification	UL 94 V-0

Overmoulding material

Material	Polyamid
Colour	black

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.

Sub. DS 09456230203 ECM-no.: 500000064469 19.07.2013



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Created by
HASSE

Inspected by
LUETTERMANND

Standardisation
KOHLE

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Final Release

Title

HARTING PushPull USB (V4), system cable

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D-32339 Espelkamp

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