



# HARTING PushPull Mini DisplayPort



## General information

Design	PushPull Mini DisplayPort complementary to DisplayPort 1.2 for length ≤ 2m (1.1 for length 3m)		
No. of contacts	20-pole		
Test voltage	500V AC peak contact-contact and contact-shielding		
Insulation resistance	20-pole: 100 MOhm min. (unmated)	10 MOhm min. (mated)	
Current rating	0.5A @ 55°C		
Nominal voltage rating	30V DC		
Termination technology	soldering reflow and pin in hole		
Reflow processing temperature	IPC A-610 class 2		
Locking	PushPull Technology complementary to IEC 61 076-3-106 variant 4		
degree of protection (IEC 60529)	unmated: IP20	mated: IP65/67 (PushPull side)	
Insertion force / Withdrawal force	50N max. / 15N min.		
contact resistance change from initial value	30 mOhm		
Mating cycles	100 / 100	(PushPull side / IP20 side)	
Shock resistance (no contact disturbance > 1µs)	25g/11ms, 3 shocks/axis and direction; 5g/30ms, 3 shocks/axis and direction		
Vibration resistance sinus vibration	10-2000Hz, 15g, 1,5mm, sweep time: 20min		
(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 ... +80°C		
Signaling Speed Rating	low bitrates: 1,62 Gbit/s per lane	high bitrates: 5,4/2,7 GBit/s per lane	
Impedance resistance	100 Ohms +/- 10%		
RoHS - compliant	Yes		

## Insulator material

Material	Engineering Thermoplastic (cable); LCP (Mini DisplayPort, plug, receptacle); Polyamid (Mini DisplayPort adapter)
Colour	black
UL classification	UL 94 V-0

## Overmoulding material

Material	TPE
Colour	black

## Contact material

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

## Cable specification

Jacket material	TPE
Colour	black
Cable diameter	5mm
Conductor material	tinned copper
Conductor size	AWG 32

	All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.	Ref.
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