

# har-flex HD-Card Edge 100 w/o hold PL1



Part number	15 04 100 2001 000
Specification	har-flex HD-Card Edge 100 w/o hold PL1
HARTING eCatalogue	https://b2b.harting.com/15041002001000

Image is for illustration purposes only. Please refer to product description.

#### Identification

Category	Connectors
Series	har-flex <sup>®</sup>
Identification	HD-Card Edge
Element	Connector

#### Version

Termination method	Reflow soldering termination (SMT)		
Connection type	Motherboard to daughtercard Mezzanine		
Number of contacts	100		
Pack contents	200 pieces on reel		

### **Technical characteristics**

Contact rows	2		
Contact spacing (termination side)	0.8 mm		
Contact spacing (mating side)	0.8 mm		
Data rate	25 Gbit/s		
Clearance distance	≥0.2 mm Backplane ≥0.53 mm Connector ≥0.1 mm Daughtercard		
Creepage distance	≥0.2 mm Backplane ≥0.53 mm Connector ≥0.1 mm Daughtercard		
Limiting temperature	-55 +125 °C		
Insertion force	≤70 N		

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#### Technical characteristics

Withdrawal force	≥20 N		
Performance level	1		
Mating cycles	≥200		
Isolation group	IIIa (175 ≤ CTI < 400)		
Moisture Sensitivity Level (MSL)	1 acc. to ECA/IPC/JEDEC J-STD-020D		
Process Sensitivity Level (PSL)	R0 acc. to ECA/IPC/JEDEC J-STD-020D		
Coplanarity of contacts	≤0.13 mm		
Material properties			
Material (insert)	Liquid crystal polymer (LCP)		
Colour (insert)	Black		
Material (contacts)	Copper alloy		
Surface (contacts)	Noble metal over Ni Mating side Sn over Ni Termination side		
Material flammability class acc. to UL 94	V-0		
RoHS	compliant		
ELV status	compliant		
China RoHS	e		
REACH Annex XVII substances	Not contained		
REACH ANNEX XIV substances	Not contained		
REACH SVHC substances	Not contained		
California Proposition 65 substances	Not contained		
Commercial data			
Packaging size	1		
Net weight	0.001 kg		

Net weight	0.001 kg		
Country of origin	China		
European customs tariff number	85366990		
GTIN	5713140205512		
eCl@ss	27460201 PCB connector (board connector)		

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## Data Transmission Protocols

har-flex HD-Card Edge Family Product Data Rate: 25Gbit/s					
Protocol	Serial Data Rate / Pair	Single Interface Short Channel	Double Interface Short Channel	Double Interface Long Channel	
400GBASE-KR4	56 Gbit/s	Not recommended	Not recommended	Not recommended	
100GBASE-KR4	25 Gbit/s	suitable	Not recommended	Not recommended	
40GBASE-KR4	10 Gbit/s	suitable	suitable	suitable	
Infiniband HDR	50 Gbit/s	Not recommended	Not recommended	Not recommended	
Infiniband HDR	25.8 Gbit/s	Not recommended	Not recommended	Not recommended	
Infiniband FDR	14 Gbit/s	suitable	suitable	suitable	
PCIe Gen 4	16 Gbit/s	suitable	suitable	suitable	
PCIe Gen 3	8 Gbit/s	suitable	suitable	suitable	
PCIe Gen 2	5 Gbit/s	suitable	suitable	suitable	
USB 3.1	5 Gbit/s	suitable	suitable	suitable	
USB 3.0	5 Gbit/s	suitable	suitable	suitable	
Hypertransport 3	5.2 Gbit/s	suitable	suitable	suitable	
SATA 3.2	16 Gbit/s	suitable	suitable	suitable	
SAS 4.0	22.5 Gbit/s	Not recommended	Not recommended	Not recommended	
SAS 3.0	12 Gbit/s	suitable	suitable	suitable	
SAS 2.0	6 Gbit/s	suitable	suitable	suitable	

The protocol recommendations are based on a set of defined channels. For more information please refer to the reference channel descriptions:

https://www.harting.com/sites/default/files/2022-09/2022-01\_eBook%20\_Reference%20Channels\_en\_V1.pdf

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