

# har-flex HD-Card Edge 140p PL1 200pcs



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Part number	15 04 140 2001 000
Specification	har-flex HD-Card Edge 140p PL1 200pcs
HARTING eCatalogue	https://b2b.harting.com/15041402001000

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

### Identification

Category	Connectors
Series	har-flex®
Identification	HD-Card Edge
Element	Connector

#### Version

Termination method	Reflow soldering termination (SMT)
Connection type	Motherboard to daughtercard Mezzanine
Number of contacts	140
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	≤100 N

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Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



### **Technical characteristics**

Withdrawal force	≥28 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	≤0.15 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 ka

Net weight	0.001 kg
Country of origin	China
European customs tariff number	85366990
GTIN	5713140205536
eCl@ss	27460201 PCB connector (board connector)

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

Data Transmission Protocols

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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