

har-flex HD-CE 120 w/o hold PL1 Sample



Part number	15 04 120 2001 333
Specification	har-flex HD-CE 120 w/o hold PL1 Sample
HARTING eCatalogue	https://b2b.harting.com/15041202001333

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	120		
Pack contents	Sample		

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	≤85 N



Technical characteristics

Withdrawal force	≥24 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	е		
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
Country of origin	China
European customs tariff number	85366990
GTIN	5713140205451
eCl@ss	27460201 PCB connector (board connector)



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