

har-flex Hybrid F ang 4+16 THR PL1Sample

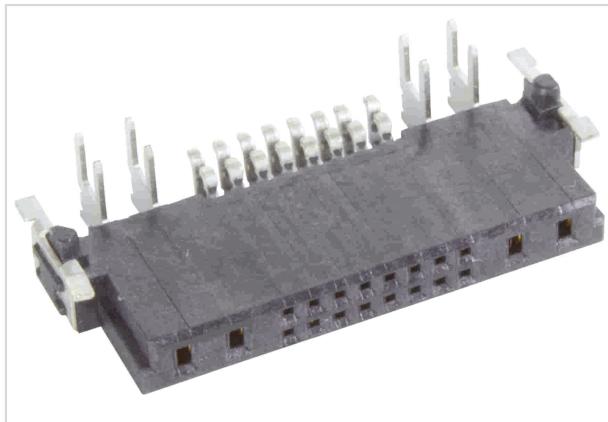


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Part number	15 85 416 2701 333
Specification	har-flex Hybrid F ang 4+16 THR PL1Sample
HARTING eCatalogue	https://b2b.harting.com/15854162701333

Identification

Category	Connectors
Series	har-flex®
Identification	Hybrid
Element	Female connector
Description of the contact	Angled
Features	Termination method of power contacts: THR

Version

Termination method	Reflow soldering termination (SMT)
Connection type	Motherboard to daughtercard Extender card
Number of contacts	20
Number of signal contacts	16
Number of power contacts	4
Pack contents	Sample

Technical characteristics

Contact spacing (termination side)	1.27 mm 2.54 mm
Contact spacing (mating side)	1.27 mm 2.54 mm
Rated voltage	50 V AC 120 V DC
Rated voltage	acc. to IEC 60664-1

Technical characteristics

Rated impulse voltage	1.5 kV
Pollution degree	2
Clearance distance	≥ 0.4 mm Signal contacts ≥ 0.94 mm Power contacts ≥ 0.7 mm Signal to power contacts
Creepage distance	≥ 0.4 mm PCB: Signal contacts ≥ 0.94 mm PCB: Power contacts ≥ 0.7 mm PCB: Signal to power contacts ≥ 0.4 mm Connector: Signal contacts ≥ 1.89 mm Connector: Power contacts ≥ 2.09 mm Connector: Signal to power contacts
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤ 25 m Ω
Limiting temperature	-55 ... +125 °C
Performance level	1
Mating cycles	≥ 500
Test voltage $U_{r.m.s.}$	0.5 kV Signal 0.84 kV Signal / Power 0.84 kV Power / Power
Isolation group	IIIa ($175 \leq CTI < 400$)
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	0.12 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

Material properties

California Proposition 65 substances	Not contained
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Commercial data

Packaging size	1
Net weight	3 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140205338
eCl@ss	27460201 PCB connector (board connector)

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

