



Pushing Performance  
Since 1945

# har-flex Hybrid M str 2+8 SMT PL1 Sample

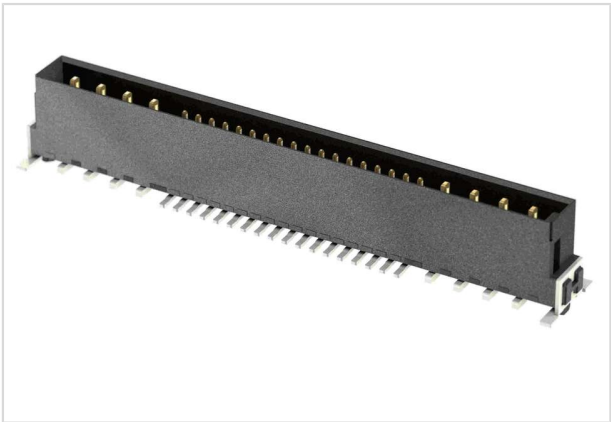


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Part number        | 15 72 208 2601 333                                                                  |
| Specification      | har-flex Hybrid M str 2+8 SMT PL1 Sample                                            |
| HARTING eCatalogue | <a href="https://harting.com/15722082601333">https://harting.com/15722082601333</a> |

## Identification

|                            |                                                              |
|----------------------------|--------------------------------------------------------------|
| Category                   | Connectors                                                   |
| Series                     | har-flex®                                                    |
| Identification             | Hybrid                                                       |
| Element                    | Male connector                                               |
| Description of the contact | Straight                                                     |
| Features                   | The sample packaging is not suitable for automated assembly. |

## Version

|                           |                                          |
|---------------------------|------------------------------------------|
| Termination method        | Reflow soldering termination (SMT)       |
| Connection type           | Motherboard to daughtercard<br>Mezzanine |
| Number of contacts        | 10                                       |
| Number of signal contacts | 8                                        |
| Number of power contacts  | 2                                        |
| Pack contents             | Sample                                   |

## Technical characteristics

|                                    |                     |
|------------------------------------|---------------------|
| Contact spacing (termination side) | 1.27 mm<br>2.54 mm  |
| Contact spacing (mating side)      | 1.27 mm<br>2.54 mm  |
| Stacking height                    | 3.25 mm             |
| Rated voltage                      | 50 V AC<br>120 V DC |



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## Technical characteristics

|                                  |                                                                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated voltage                    | acc. to IEC 60664-1                                                                                                                                                                                                                                                    |
| Rated impulse voltage            | 1.5 kV                                                                                                                                                                                                                                                                 |
| Pollution degree                 | 2                                                                                                                                                                                                                                                                      |
| Clearance distance               | $\geq 0.4$ mm Signal contacts<br>$\geq 1.74$ mm Power contacts<br>$\geq 1.11$ mm Signal to power contacts                                                                                                                                                              |
| Creepage distance                | $\geq 0.4$ mm PCB: Signal contacts<br>$\geq 1.74$ mm PCB: Power contacts<br>$\geq 1.11$ mm PCB: Signal to power contacts<br>$\geq 0.4$ mm Connector: Signal contacts<br>$\geq 1.89$ mm Connector: Power contacts<br>$\geq 1.94$ mm Connector: Signal to power contacts |
| Insulation resistance            | $>10^{10} \Omega$                                                                                                                                                                                                                                                      |
| Contact resistance               | $\leq 25$ m $\Omega$                                                                                                                                                                                                                                                   |
| Limiting temperature             | -55 ... +125 °C                                                                                                                                                                                                                                                        |
| Performance level                | 1                                                                                                                                                                                                                                                                      |
| Mating cycles                    | $\geq 500$                                                                                                                                                                                                                                                             |
| Test voltage $U_{r.m.s.}$        | 0.5 kV Signal<br>1.39 kV Signal / Power<br>1.39 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<br>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                                                  |



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Material properties

|                                      |               |
|--------------------------------------|---------------|
| REACH SVHC substances                | Not contained |
| California Proposition 65 substances | Not contained |

Specifications and approvals

|          |                                   |
|----------|-----------------------------------|
| UL / CSA | UL 1977 ECBT2.E102079             |
|          | CSA-C22.2 No. 182.3 ECBT8.E102079 |

Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 1                                        |
| Country of origin              | China                                    |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140204768                            |
| eCl@ss                         | 27460201 PCB connector (board connector) |
| ETIM                           | EC002637                                 |
| UNSPSC 24.0                    | 39121415                                 |