

## har-flex Power F ang 12P THR PL1 400pcs

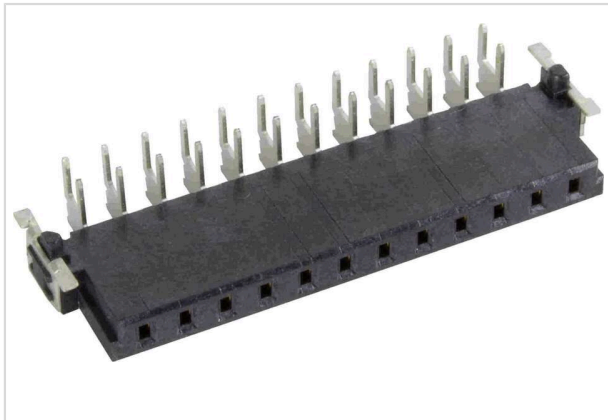


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Part number        | 15 65 012 2701 000                                                                  |
| Specification      | har-flex Power F ang 12P THR PL1 400pcs                                             |
| HARTING eCatalogue | <a href="https://harting.com/15650122701000">https://harting.com/15650122701000</a> |

### Identification

|                            |                                       |
|----------------------------|---------------------------------------|
| Category                   | Connectors                            |
| Series                     | har-flex®                             |
| Identification             | Power                                 |
| Element                    | Female connector                      |
| Description of the contact | Angled                                |
| Features                   | Termination method of hold downs: SMT |

### Version

|                    |                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Termination method | Reflow soldering termination (THR)                                                                                                                    |
| Connection type    | Motherboard to daughtercard<br>Extender card                                                                                                          |
| Number of contacts | 12                                                                                                                                                    |
| Details            | According to IEC 61984, it is an unencapsulated connector. Protection against electric shock must be ensured by the type of installation by the user. |
| Pack contents      | 400 pieces on reel                                                                                                                                    |

### Technical characteristics

|                                    |                     |
|------------------------------------|---------------------|
| Contact spacing (termination side) | 2.54 mm             |
| Contact spacing (mating side)      | 2.54 mm             |
| Rated current                      | 19 A                |
| Rated voltage                      | 180 V               |
| Rated voltage                      | acc. to IEC 60664-1 |
| Rated impulse voltage              | 1.5 kV              |
| Pollution degree                   | 2                   |



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## Technical characteristics

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Clearance distance               | ≥0.94 mm                            |
| Creepage distance                | ≥0.94 mm PCB<br>≥1.89 mm Connector  |
| Insulation resistance            | >10 <sup>10</sup> Ω                 |
| Contact resistance               | ≤25 mΩ                              |
| Limiting temperature             | -55 ... +125 °C                     |
| Performance level                | 1                                   |
| Mating cycles                    | ≥500                                |
| Test voltage U <sub>r.m.s.</sub> | 0.84 kV                             |
| 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          | 0.1 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                                                  |
| REACH SVHC substances                     | Not contained                                                  |
| California Proposition 65 substances      | Not contained                                                  |

## Specifications and approvals

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

## Commercial data

|                |   |
|----------------|---|
| Packaging size | 1 |
|----------------|---|



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Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Net weight                     | 3.475 g                                  |
| Country of origin              | China                                    |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140204751                            |
| eCl@ss                         | 27460201 PCB connector (board connector) |
| ETIM                           | EC002637                                 |
| UNSPSC 24.0                    | 39121415                                 |