

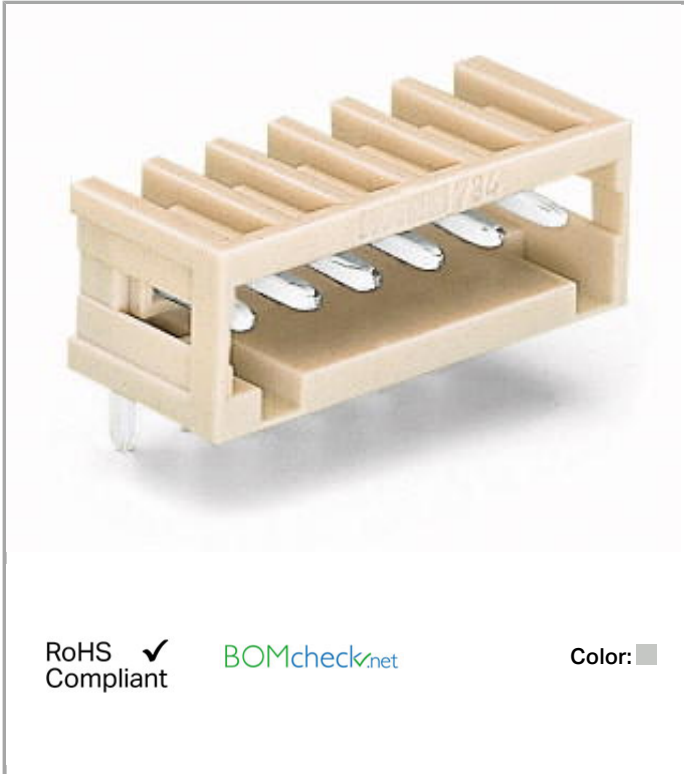
## Data sheet | Item number: 734-180

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 20-pole



[www.wago.com/734-180](http://www.wago.com/734-180)

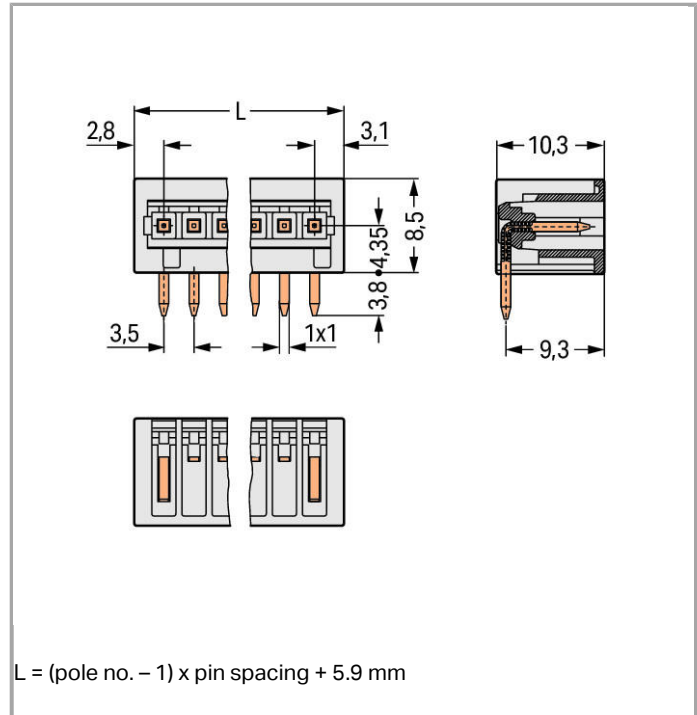
勝特力電材超市-龍山店 886-3-5773766  
勝特力電材超市-光復店 886-3-5729570  
勝特力電子(上海) 86-21-34970699  
勝特力電子(深圳) 86-755-83298787  
<http://www.100y.com.tw>



RoHS  Compliant

BOMcheck.net

Color:



### Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100 % protected against mismatching; only mating halves with the same number of poles can be connected together
- Coding via coding fingers

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: 3.8 mm pin projection for male headers with straight solder pins, Gold-plated or partially gold-plated contact surfaces, Other pole numbers

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 160 V  |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |



|                                |   |
|--------------------------------|---|
| Rated impulse voltage (II / 2) | 2.5 kV  |
| Rated current                  | 10 A  |
| Legend (ratings)               | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A  |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                            |    |
|----------------------------|----|
| No. of poles               | 20 |
| Number of levels           | 1  |
| Total number of potentials | 20 |

### Geometrical Data

|                                   |                          |
|-----------------------------------|--------------------------|
| Pin spacing                       | 3.5 mm (0.138 inch)      |
| Width                             | 72.4 mm / 2.85 inch      |
| Height                            | 12.3 mm / 0.484 inch     |
| Height from the surface           | 8.5 mm / 0.335 inch      |
| Depth                             | 10.3 mm / 0.406 inch     |
| Solder pin length                 | 3.8 mm                   |
| Solder pin dimensions             | 1 x 1 mm                 |
| Drilled hole diameter (tolerance) | 1.4 <sup>(+0.1)</sup> mm |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismating protection               | Yes                 |
| Mating direction to the PCB        | 0°                  |

### PCB contact

|             |     |
|-------------|-----|
| PCB contact | THT |
|-------------|-----|

|                                     |   |
|-------------------------------------|---|
| Solder pin arrangement              | over the entire male connector, in line |
| Number of solder pins per potential | 1                                       |

## Material Data

|                             |                           |
|-----------------------------|---------------------------|
| Color                       | light gray                |
| Material group              | I                         |
| Insulating material         | Polyamide 66 (PA 66)      |
| Flammability class per UL94 | V0                        |
| Contact material            | Electrolytic copper (Ecu) |
| Contact plating             | tin-plated                |
| Fire load                   | 0.074 MJ                  |
| Weight                      | 5.09 g                    |

## Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

## Commercial data

|                   |                        |
|-------------------|------------------------|
| Country of origin | DE                     |
| GTIN              | 4044918872478          |
| Product Group     | 3 (Multi Conn. System) |

## Compatible products

### Coding

|  |   |  |
|--|---|--|
|  | <b>Item no.: 734-130</b><br>Coding key; to be snapped above top level | <a href="http://www.wago.com/734-130">www.wago.com/734-130</a> |
|  | <b>Item no.: 734-159</b><br>Coding key; to be snapped above top level | <a href="http://www.wago.com/734-159">www.wago.com/734-159</a> |

## Downloads

### smartDATA

#### CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 734-180 | URL | Download |
|---------------------|-----|----------|

#### PCB libraries

|  |                      |               |          |
|--|----------------------|---------------|----------|
| TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System)<br>Compatible with TARGET PCB Design Software Version 17.x        | 1.1.0<br>Oct 6, 2014 | ZIP<br>7.4 MB | Download |
| EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Nov 17, 2017  | ZIP<br>6.2 MB | Download |



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|   |                    |               |          |
|---|--------------------|---------------|----------|
| DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) | 2.1<br>Oct 6, 2014 | ZIP<br>6.1 MB | Download |
|---|--------------------|---------------|----------|

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Compatible with DesignSpark PCB Version 4.x or higher

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Subject to changes.

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Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.