

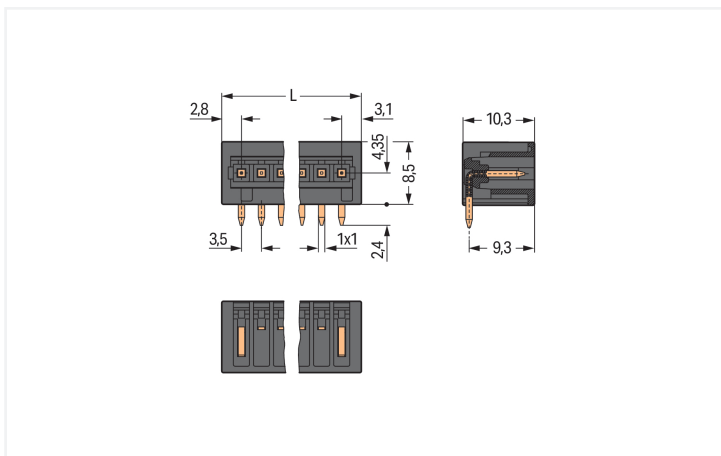
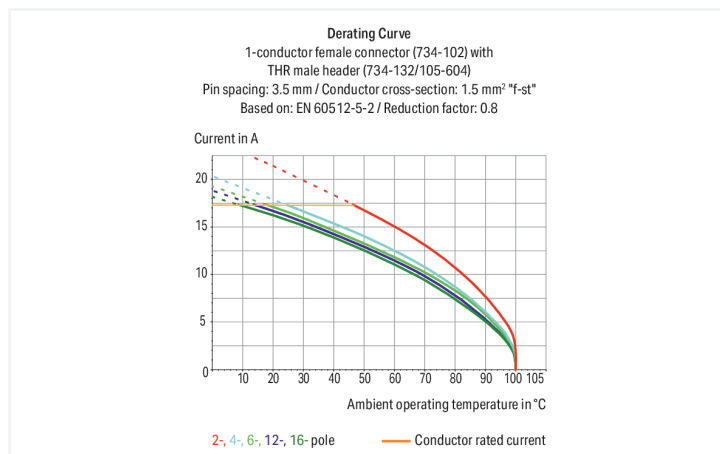
## Data Sheet | Item Number: 734-176/105-604

THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 16-pole; black

<https://www.wago.com/734-176/105-604>



Color: ■ black



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$

Male connector, 734 Series, solder pin dimensions 1 x 1 mm

This male connector (item number 734-176/105-604) simplifies electrical installations. Dimensions: (58.4 x 10.9 x 10.3) mm (width x height x depth).

Tin is used for coating the contact surfaces. THR is used to solder the pcb connector.

### Notes

#### Safety Information

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

#### Variants:

Other pole numbers  
Other solder pin lengths  
Gold-plated or partially gold-plated contact surfaces  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

### Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	160 V	160 V	320 V
Rated impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	10 A	10 A	10 A

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

### Connection data

Total number of potentials	16
Number of connection types	1
Number of levels	1

Connection 1	
Pole number	16

### Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	58.4 mm / 2.299 inches
Height	10.9 mm / 0.429 inches
Height from the surface	8.5 mm / 0.335 inches
Depth	10.3 mm / 0.406 inches
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	1.4 (+0.1) mm

### Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

### Plug-in connection

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

### PCB contact

PCB contact	THR
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	black
Material group	I
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.138 MJ
Weight	4.3 g
MSL per J-STD 020D	1

### Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

### Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454080532
Customs tariff number	85366930000

### Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 9.0	EC002637
ETIM 8.0	EC002637
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Downloads

#### Environmental Product Compliance

##### Compliance Search

Environmental Product  
Compliance  
734-176/105-604



## Documentation

### Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	<a href="#">↓</a>
		pdf 535.32 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	CAE data
<a href="#">2D/3D Models 734-176/105-604</a>	<a href="#">ZUKEN Portal 734-176/105-604</a>

## PCB Design

<a href="#">Symbol and Footprint via SamacSys 734-176/105-604</a>	<a href="#">↓</a>
<a href="#">Symbol and Footprint via Ultra Librarian 734-176/105-604</a>	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 734-116**  
 1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 16-pole; 100% protected against mismatching; 1,50 mm<sup>2</sup>; light gray

### 1.2 Optional Accessories

#### 1.2.1 Coding

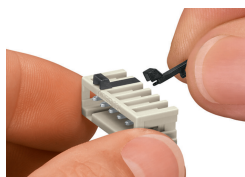
##### 1.2.1.1 Coding

**Item No.: 734-159**  
 Coding key; to be snapped above top level; black

**Item No.: 734-130**  
 Coding key; to be snapped above top level; white

## Installation Notes

### Coding



Coding a male header – fitting coding key (s).