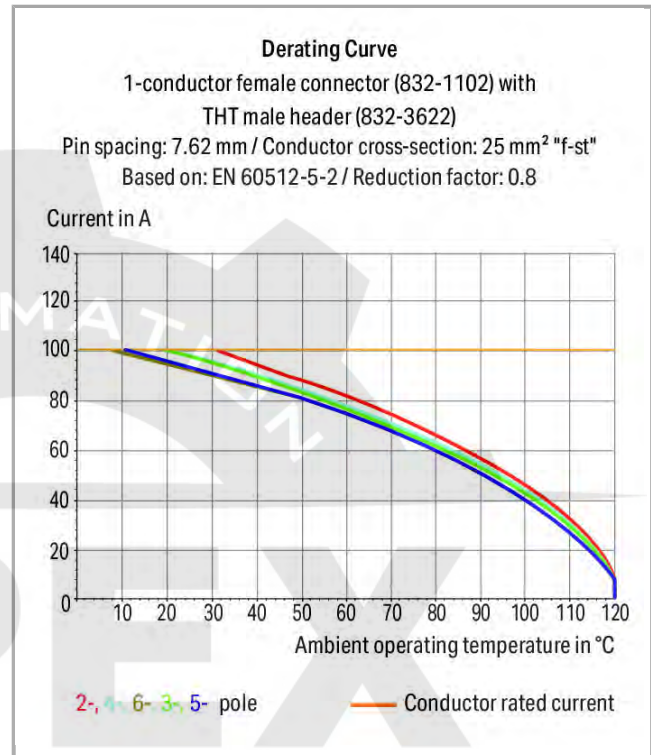
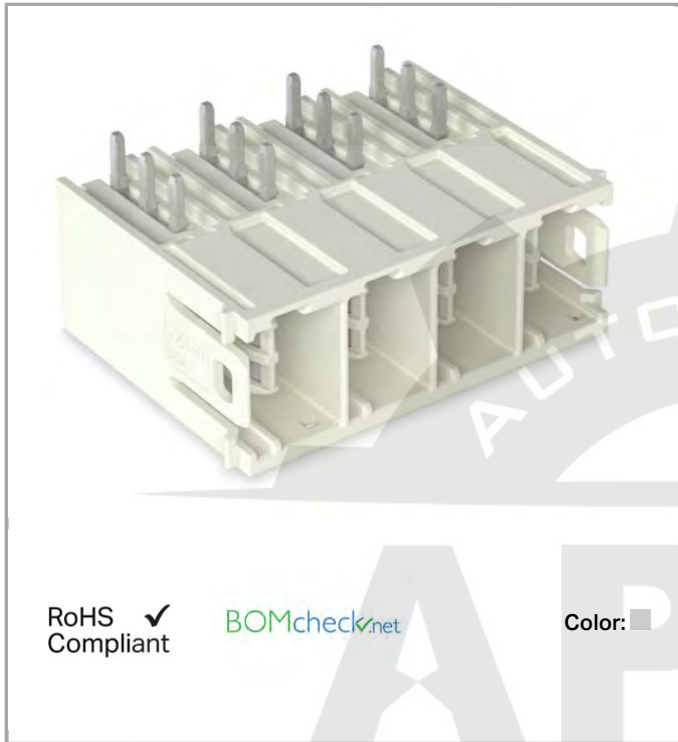


## Data sheet | Item number: 832-3643

THT male header; 1.2 x 1.2 mm solder pin; straight; 100% protected against mismatching; Silver-plated contacts; Pin spacing 10.16 mm; 3-pole



832-3643



## Derating Curve

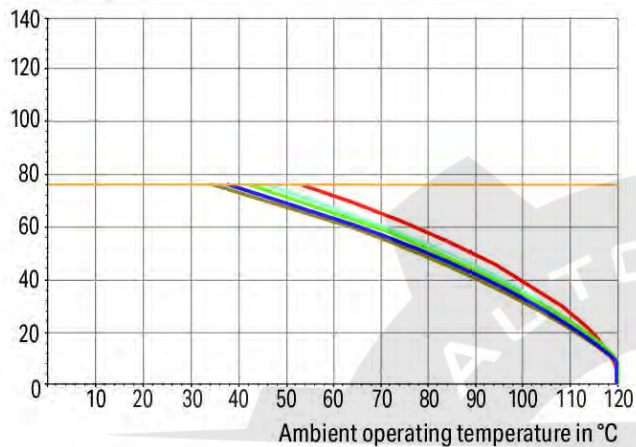
1-conductor female connector (832-1102) with

THT male header (832-3622)

Pin spacing: 7.62 mm / Conductor cross-section: 16 mm<sup>2</sup> "f-st"

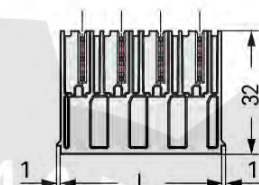
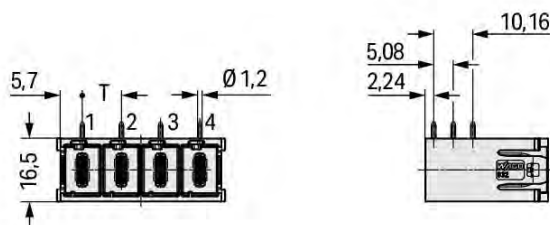
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A

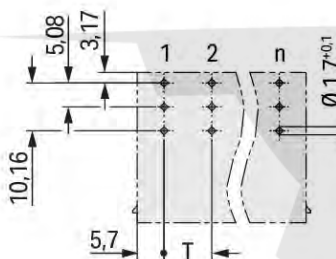


2-, 3-, 4-, 5-, 6-pole

Conductor rated current



L = pole no. x pin spacing + 1.3 mm



## Item description

- Male header may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- Mating face (IP2XB) with higher protection against accidental contact
- 100% protected against mismatching
- Coding via coding fingers

## Safety information 1:



The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

## Data

### Electrical data

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

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 800 V  |
| Rated impulse voltage (III / 3) | 8 kV   |
| Rated voltage (III / 2)         | 1000 V |
| Rated impulse voltage (III / 2) | 8 kV   |
| Rated voltage (II / 2)          | 1000 V |
| Rated impulse voltage (II / 2)  | 8 kV   |
| Rated current                   | 76 A   |

#### Connection data

|                            |   |
|----------------------------|---|
| No. of poles               | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels           | 1 |

#### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 10.16 mm / 0.4 inch            |
| Width                             | 31.78 mm / 1.251 inch          |
| Height                            | 20.5 mm / 0.807 inch           |
| Height from the surface           | 16.5 mm / 0.65 inch            |
| Depth                             | 32 mm / 1.26 inch              |
| Solder pin length                 | 4 mm                           |
| Solder pin dimensions             | 1.2 x 1.2 mm                   |
| Drilled hole diameter (tolerance) | 1.7 <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        | 180°                |

#### PCB contact

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

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Solder pin arrangement              | over the entire male connector, in line |
| Number of solder pins per potential | 3                                       |

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | light gray                             |
| Material group              | I                                      |
| Insulating material         | Polybutylene terephthalate (PBT)       |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | silver-plated                          |
| Weight                      | 16.358 g                               |

## Environmental Requirements

|                         |             |
|-------------------------|-------------|
| Limit temperature range | -60 +120 °C |
|-------------------------|-------------|

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4055143730273 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                        | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|
|  | CSA<br>DEKRA Certification B.V. | C22.2                    | 70180346         |

### UL-Approvals

| Logo                                                                               | Approval                                | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|------------------|
|  | cURus<br>Underwriters Laboratories Inc. | C22.2 No. 158            | E45172           |

## Compatible products

### Coding



|                                                                                  |                                         |         |
|----------------------------------------------------------------------------------|-----------------------------------------|---------|
|  | Item no.: 832-500<br>Coding key carrier | 832-500 |
|----------------------------------------------------------------------------------|-----------------------------------------|---------|

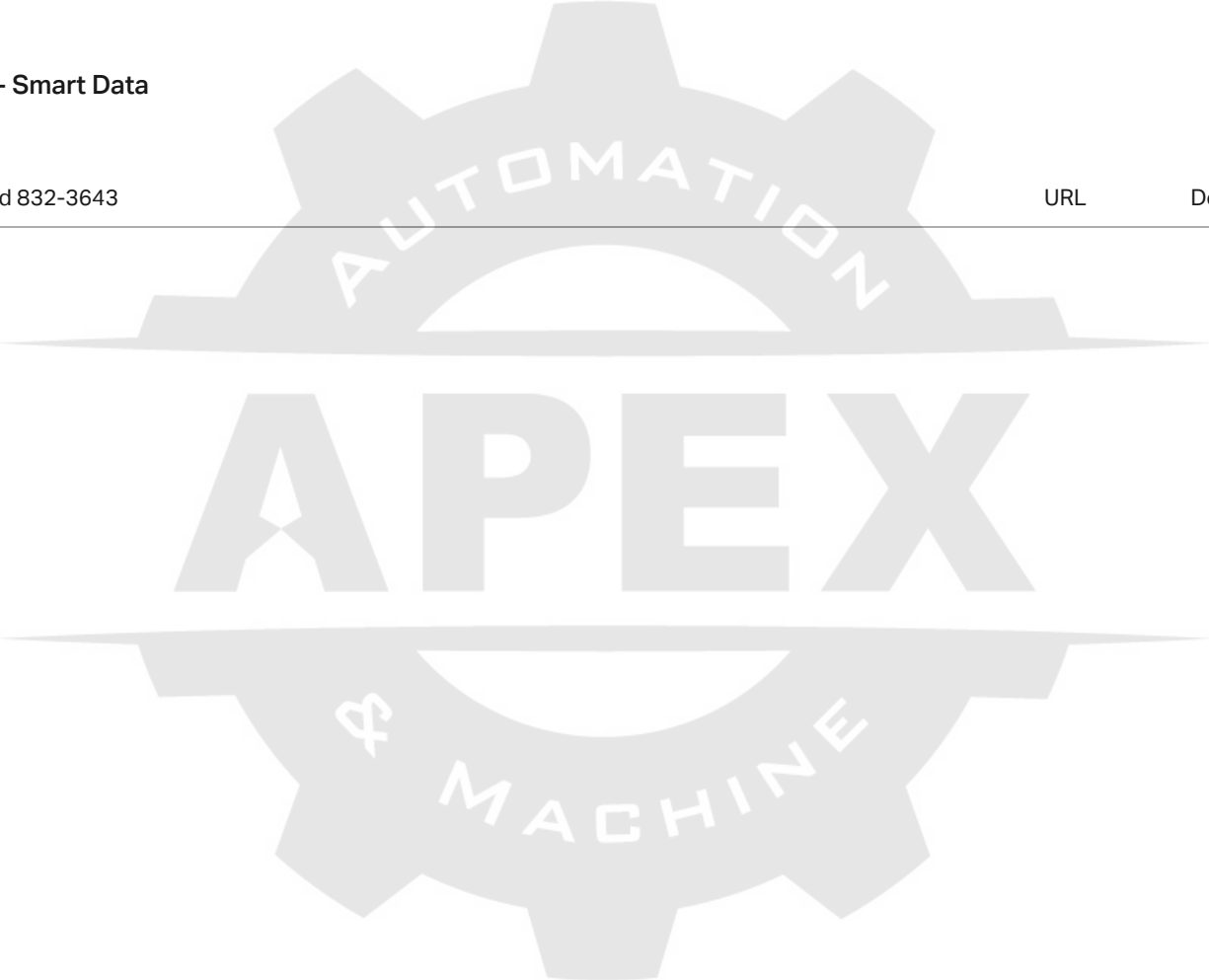
Downloads  
Documentation

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Additional Information |             |               |          |
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |

CAD/CAE - Smart Data

CAD data

|                      |     |          |
|----------------------|-----|----------|
| 3D Download 832-3643 | URL | Download |
|----------------------|-----|----------|



Subject to changes.