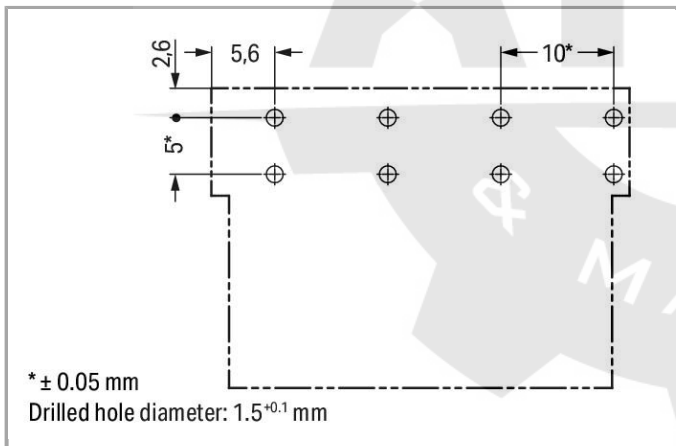
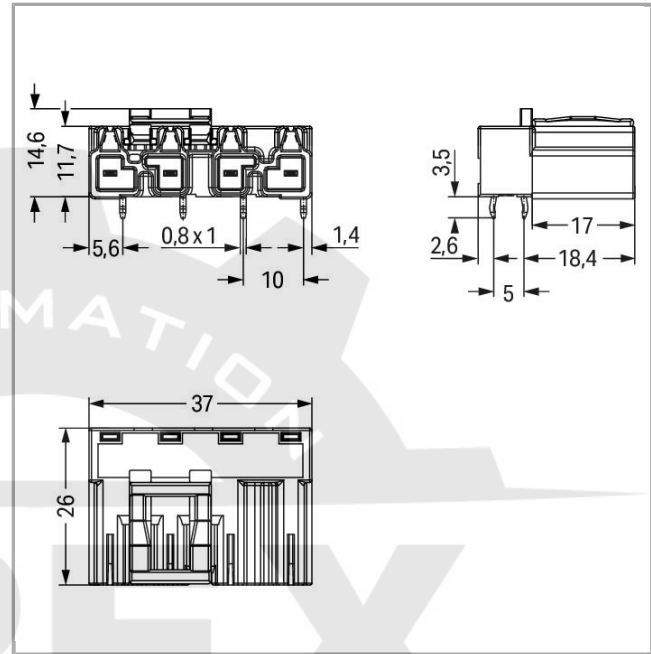




### Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Two-wire connection per pole for loops or bridges
- Additional variable coding is possible

Note:



All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug /socket).

#### Safety information 1:

Application note for the U.S. market (USR): Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.

## Data

### Electrical data

Note on Contact Resistance

approx. 1mΩ contact resistance

approx. 0.25mΩ contact transition plug/socket

### Ratings per IEC/EN 60664-1

|                                 |       |
|---------------------------------|-------|
| Rated voltage (III / 3)         | 400 V |
| Rated impulse voltage (III / 3) | 6 kV  |
| Rated current                   | 25 A  |

### Approvals per UL 1977

|                                                 |       |
|-------------------------------------------------|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 23 A  |

### Connection data

|                            |                            |
|----------------------------|----------------------------|
| No. of poles               | 4                          |
| Total number of potentials | 4                          |
| Number of levels           | 1                          |
| Ground function            | with preceding GND contact |

### Geometrical Data

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Pin spacing                       | 10 mm / 0.394 inch                |
| Width                             | 37 mm / 1.457 inch                |
| Height                            | 18.1 mm / 0.713 inch              |
| Height from the surface           | 14.6 mm / 0.575 inch              |
| Depth                             | 26 mm / 1.024 inch                |
| Solder pin length                 | 3.5 mm                            |
| Solder pin dimensions             | 1 x 0.8 mm                        |
| Drilled hole diameter (tolerance) | 1.5 <sup>(-0.1 ... +0.1)</sup> mm |

## Mechanical data

|                                         |                                                                                                                                          |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Coding                                  | A                                                                                                                                        |
| Mating force of a plug-in connection    | approx. 20 ... 70 N (depending on pole number)                                                                                           |
| Retention force of a plug-in connection | When locked: > 80 N                                                                                                                      |
| Unmating force of a plug-in connection  | when unlocked: approx. 20 ... 70 N (depending on pole number)                                                                            |
| Number of mating cycles                 | 200, without resistive load<br>100, with resistive load $I_N = 25A$ , tested (4 mm <sup>2</sup> /AWG 12)                                 |
| Design                                  | angled                                                                                                                                   |
| Marking                                 | N 2                                                                                                                                      |
| Protection class                        | IP20                                                                                                                                     |
| Note on protection class                | Only in mated condition with strain relief housing (These compact connectors are not designed for use in open, easily accessible areas.) |
| Potential marking                       | N 2/L 1/L'                                                                                                                               |

## Plug connection

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

## PCB contact

|                                     |                            |
|-------------------------------------|----------------------------|
| PCB contact                         | THT                        |
| Solder pin arrangement              | 2 in-line solder pins/pole |
| Number of solder pins per potential | 2                          |

## Material Data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Color                       | black                                   |
| Insulating material         | Polyamide 66 (PA 66)                    |
| Flammability class per UL94 | V0                                      |
| Clamping spring material    | Chrome nickel spring steel (CrNi)       |
| Contact material            | Copper or copper alloy, surface-treated |
| Fire load                   | 0.189 MJ                                |
| Weight                      | 8.648 g                                 |

## Environmental Requirements

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Surrounding air (operating) temperature | -35 ... 85 °C                                   |
| Processing temperature                  | -5 ... +40 °C                                   |
| Continuous operating temperature        | -35 ... +85 °C                                  |
| Note on Continuous Service Temperature  | Insulating parts for temperatures $\leq 105$ °C |

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4044918524612 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                             | Approval                        | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 61984                 | 2173495.01       |
|                                                                                  | CCA<br>DEKRA Certification B.V. | IEC 61984                | NL-32104         |

### Ship Approvals

| Logo                                                                                | Approval                                         | Additional Approval Text | Certificate name |
|-------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|------------------|
|   | ABS<br>American Bureau of Shipping               | -                        | 14-HG1241528-PDA |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6       |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6       |
|  | LR<br>Lloyds Register                            | IEC 61984                | 02/20050 (E6)    |

### UL-Approvals

Certificate



| Logo                                                                             | Approval                                       | Additional Approval Text | name             |
|----------------------------------------------------------------------------------|------------------------------------------------|--------------------------|------------------|
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171<br>Sec. 9 |

## Compatible products

### protection



Item no.: 770-360  
Lockout cap; for plugs; 5-pole; separable

770-360

### Coding



Item no.: 770-401  
Coding pin; for plugs; Plastic

770-401

## Downloads

### CAD/CAE - Smart Data

#### CAD data

3D Download 770-814/011-000

URL

Download

Subject to changes.