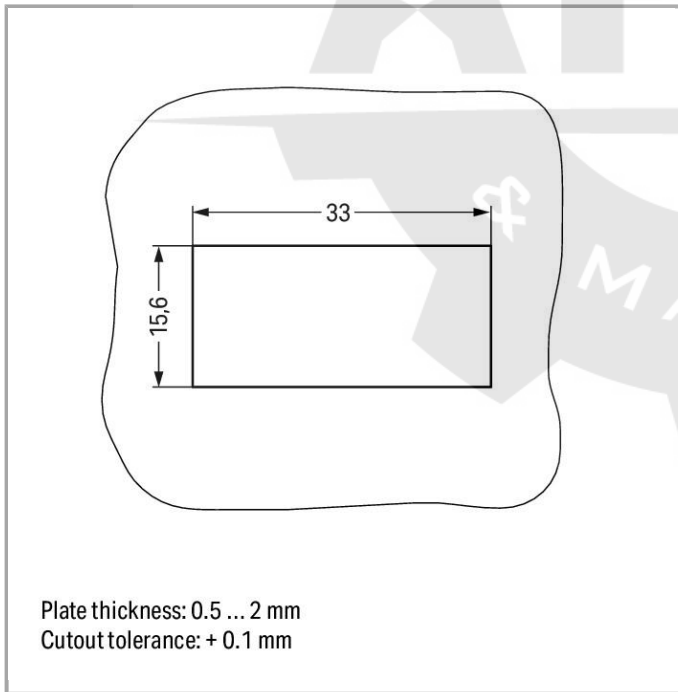
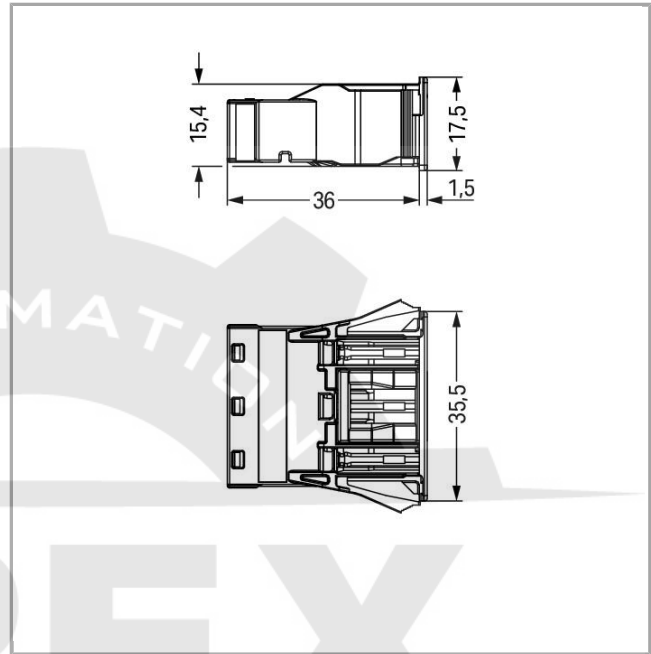
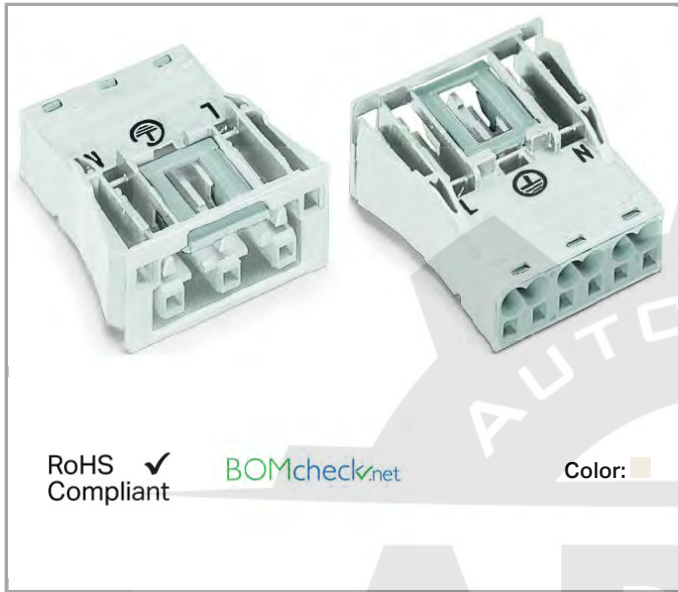


770-723



### 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)         | 250 V |
| Rated impulse voltage (III / 3) | 4 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**

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Connection technology                | Push-in CAGE CLAMP®             |
| Actuation type                       | Operating tool<br>Push-in       |
| Nominal cross section                | 4 mm²                           |
| Solid conductor                      | 0.5 ... 4 mm² / 20 ... 12 AWG   |
| Solid conductor, push-in termination | 1.5 ... 4 mm² / 16 ... 12 AWG   |
| Stranded conductor                   | 0.5 ... 2.5 mm² / 20 ... 14 AWG |
| Fine-stranded conductor              | 0.5 ... 4 mm² / 20 ... 12 AWG   |

|   |  |
|---|--|
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG |
| Strip length  | 9 mm / 0.35 inch                             |
| Note (strip length)   | see also packaging or instructions           |
| No. of poles  | 3  |
| Total number of connection points                           | 6  |
| Total number of potentials                                  | 3  |
| Conductor entry direction to mating direction               | 0°   |

## Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 35.5 mm / 1.398 inch |
| Height      | 17.5 mm / 0.689 inch |
| Depth       | 36 mm / 1.417 inch   |

## 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  |
|   | 100, with resistive load $I_N = 25A$ , tested (4 mm <sup>2</sup> /AWG 12)  |
| Gehäuseblechstärke                      | 0.5 ... 2 mm / 0.02 ... 0.079 inch   |
| Mounting type                           | Snap-in  |
| Marking                                 | L N  |
| 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                       | L N  |

## Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for conductors          |
| Mismating protection               | Yes                     |
| Locking of plug-in connection      | locking lever           |
| Locking lever                      | yes                     |

## Material Data

|                             |   |
|-----------------------------|---|
| Color                       | white                                   |
| 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                   | 0.236 MJ                                |
| Weight                      | 12.035 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 ≤ 105 °C |

## Commercial data



|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Country of origin  | DE            |
| GTIN               | 4044918252638 |
| Customs Tariff No. | 85366990990   |



## Approvals / Certificates

### Country specific Approvals


| Logo   | Approval                        | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 61535                 | 2173495.02       |
|  | CCA<br>DEKRA Certification B.V. | IEC 61535                | NL-32105         |

### 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       |





|   |   |           |                  |
|---|---|-----------|------------------|
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -         | TAE00001Z6       |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984 | 02/20050<br>(E6) |

## UL-Approvals



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

## Compatible products

## protection

|  |   |         |
|--|---|---------|
|  | <b>Item no.: 770-201</b><br>Lockout cap; 12-pole, separable; 12-pole; for sockets | 770-201 |
|  | <b>Item no.: 770-221</b><br>Lockout cap; for socket; 12-pole; separable           | 770-221 |
|  | <b>Item no.: 770-643</b><br>Lockout cap; 3-pole; for cutouts; Plastic             | 770-643 |
|  | <b>Item no.: 770-693</b><br>Lockout cap; for cutout; for cutouts; Plastic         | 770-693 |

## tools

|  |   |         |
|--|---|---------|
|  | <b>Item no.: 210-720</b><br>Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | 210-720 |
|  | <b>Item no.: 770-383</b><br>Operating tool; 3-way   | 770-383 |

## Downloads

## Documentation

## Bid Text

|                     |             |                |          |
|---------------------|-------------|----------------|----------|
| 770-723             | Apr 4, 2012 | doc<br>23.6 kB | Download |
| WINSTA MIDI 3-polig |             |                |          |



CAD/CAE - Smart Data

CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 770-723 | URL | Download |
|---------------------|-----|----------|



Subject to changes.