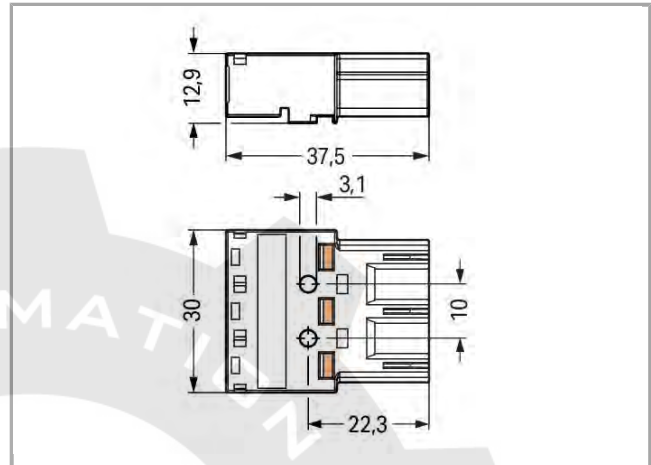
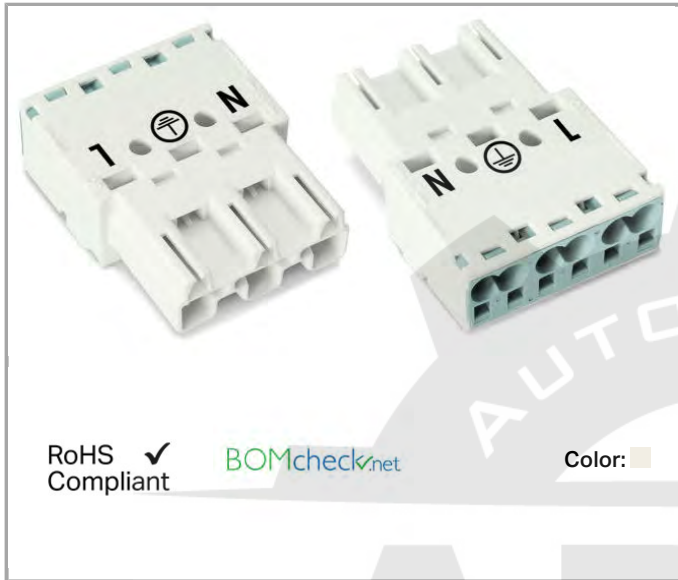




## Item description

White coding A (L N)

### 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 mm² / 20 ... 16 AWG   |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 2.5 mm² / 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                                  |
| Ground function                                             | with preceding GND contact         |
| Conductor entry direction to mating direction               | 0°                                 |

**Geometrical Data**

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 30 mm / 1.181 inch   |
| Height      | 12.9 mm / 0.508 inch |
| Depth       | 37.5 mm / 1.476 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)

|                          |                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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) | Male connector/plug |
| Connector connection type          | for conductors      |
| Mismating protection               | Yes                 |
| Locking of plug-in connection      | locking lever       |
| Locking lever                      | no                  |

### 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                   | 0.194 MJ                                |
| Weight                      | 9.896 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               | 4044918254182 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

## Country specific Approvals

| Logo                                                                             | Approval                                            | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.              | EN 61535                 | 2173495.02       |
|                                                                                  | <b>CCA</b><br>DEKRA Certification B.V.              | IEC 61535                | NL-32105         |
|  | <b>VDE</b><br>VDE Prüf- und Zertifizierungsinstitut | EN 61984                 | 40002889         |
|                                                                                  |                                                     |                          |                  |

## Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|    | <b>ABS</b><br>American Bureau of Shipping               | -                        | 14-<br>HG1241528-<br>PDA |
|                                                                                     | <b>DNV GL</b><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

## Coding

|                                                                                  |                                                     |         |
|----------------------------------------------------------------------------------|-----------------------------------------------------|---------|
|  | Item no.: 770-401<br>Coding pin; for plugs; Plastic | 770-401 |
|----------------------------------------------------------------------------------|-----------------------------------------------------|---------|

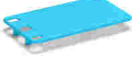
## Locking lever

|                                                                                  |                                                                            |         |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------|
|  | Item no.: 770-101<br>Locking lever; for flying leads; for manual operation | 770-101 |
|  | Item no.: 770-111<br>Locking lever; for flying leads; for tool operation   | 770-111 |
|  | Item no.: 770-121<br>Locking lever; for flying leads; for manual operation | 770-121 |
|  | Item no.: 770-131<br>Locking lever; for flying leads; for tool operation   | 770-131 |

## tools

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

## Marking accessories

|                                                                                    |                                                   |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------|---------------------|
|  | Item no.: 770-450<br>Marker card; Plastic         | 770-450             |
|  | Item no.: 770-450/000-001<br>Marker card; Plastic | 770-450<br>/000-001 |
|  | Item no.: 770-450/000-002<br>Marker card; Plastic | 770-450<br>/000-002 |
|  | Item no.: 770-450/000-005<br>Marker card; Plastic | 770-450<br>/000-005 |
|  | Item no.: 770-450/000-006<br>Marker card; Plastic | 770-450<br>/000-006 |
|  | Item no.: 770-450/000-012<br>Marker card; Plastic | 770-450<br>/000-012 |

## Strain relief plate

|                                                                                    |                                                                                          |         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|
|  | Item no.: 770-503<br>Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm | 770-503 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|



**Item no.: 770-503/021-000**  
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm

/021-000

770-503



**Item no.: 770-503/023-000**  
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm

/023-000

770-503



**Item no.: 770-503/032-000**  
Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm

/032-000

770-503



**Item no.: 770-503/035-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm

/035-000

770-503



**Item no.: 770-503/038-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm

/038-000

770-503



**Item no.: 770-513**  
Strain relief housing; 3-pole; for 1 cable; 8.0 ... 11.5 mm; 55 mm

770-513



**Item no.: 770-513/021-000**  
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm

/021-000

770-513



**Item no.: 770-513/023-000**  
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm

/023-000

770-513



**Item no.: 770-513/032-000**  
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm

/032-000

770-513



**Item no.: 770-513/035-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm

/035-000

770-513



**Item no.: 770-513/038-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm

/038-000

770-513

#### shield connection



**Item no.: 770-523**  
Shield connecting plate; 3-pole; for sockets and plugs

770-523

#### protection



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

770-360

#### Downloads

#### Documentation

#### Bid Text

770-233

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doc

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24.1 kB

CAD/CAE - Smart Data

CAD data

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Subject to changes.