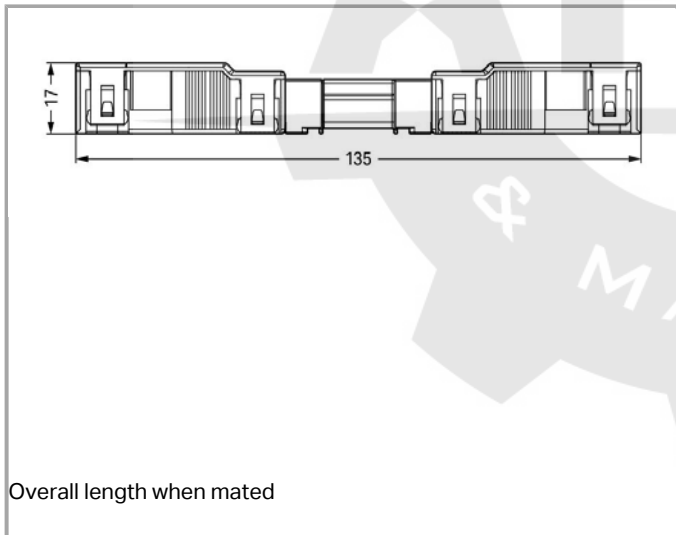
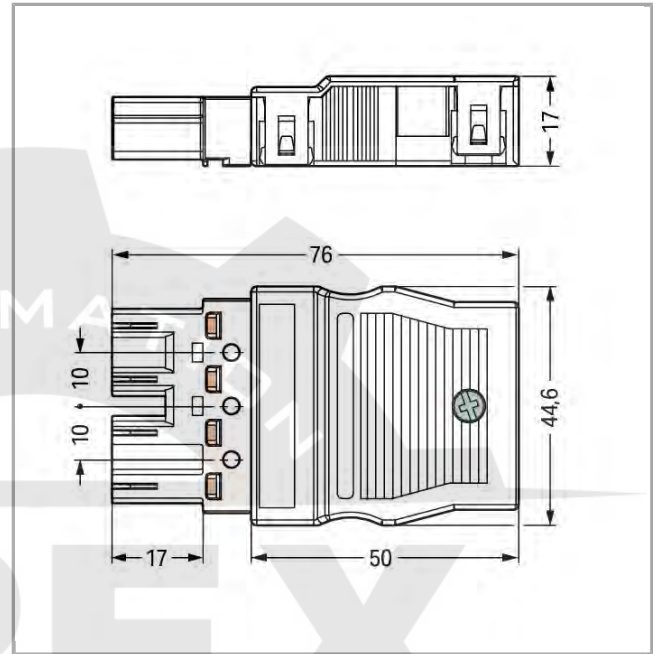


770-134



### 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**

|                                                             |                                    |
|-------------------------------------------------------------|------------------------------------|
| 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                                  | 4                          |
| Total number of connection points             | 8                          |
| Total number of potentials                    | 4                          |
| Ground function                               | with preceding GND contact |
| Connectable sheathed cable diameter           | 9 ... 13 mm                |
| Conductor entry direction to mating direction | 0°                         |
| Strip length                                  | 55 mm                      |

### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 44.6 mm / 1.756 inch |
| Height      | 17 mm / 0.669 inch   |
| Depth       | 75.9 mm / 2.988 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                                 | 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 conductors        |
| Mismating protection               | Yes                   |
| Locking of plug-in connection      | locking lever         |
| Locking lever                      | no                    |
| Strain relief                      | Strain relief housing |

## 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                   | 0.574 MJ                                |
| Weight                      | 24.863 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

|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Country of origin  | DE            |
| GTIN               | 4044918254489 |
| 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         |
|  | VDE<br>VDE Prüf- und Zertifizierungsinstitut | EN 61535                 | 40029808         |
|                                                                                    |                                              |                          |                  |

### Ship Approvals

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



|               |   |            |
|---------------|---|------------|
| <b>DNV GL</b> | - | TAE00001Z6 |
|---------------|---|------------|

|                                        |
|----------------------------------------|
| Det Norske Veritas, Germanischer Lloyd |
|----------------------------------------|



|               |   |            |
|---------------|---|------------|
| <b>DNV GL</b> | - | TAE00001Z6 |
|---------------|---|------------|

|                                        |
|----------------------------------------|
| Det Norske Veritas, Germanischer Lloyd |
|----------------------------------------|



|           |           |                  |
|-----------|-----------|------------------|
| <b>LR</b> | IEC 61984 | 02/20050<br>(E6) |
|-----------|-----------|------------------|

|                 |
|-----------------|
| Lloyds Register |
|-----------------|



## UL-Approvals

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

## Compatible products

### Locking lever

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

### tools

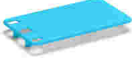
|                                                                                    |                                                                                                         |         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------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

### protection

|                                                                                    |                                                                       |         |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|
|  | <b>Item no.: 770-360</b><br>Lockout cap; for plugs; 5-pole; separable | 770-360 |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|



## 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 |

## Downloads

## Documentation

## Bid Text

|                     |             |         |          |
|---------------------|-------------|---------|----------|
| 770-134             | Apr 4, 2012 | doc     | Download |
| WINSTA MIDI 4-polig |             | 24.1 kB |          |

## CAD/CAE - Smart Data

## CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 770-134 | URL | Download |
|---------------------|-----|----------|

Subject to changes.