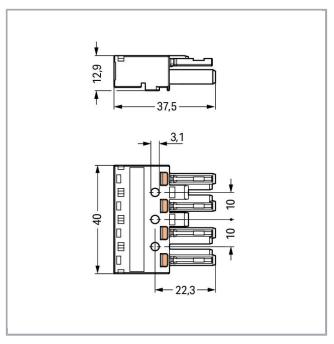
Socket; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

www.wago.com/770-244/081-000







## Item description

- Protected against mismating 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
- Components can be clearly printed on and color-coded to meet custom requirements

#### 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).

## Note on mismating protection:

All WINSTA® components are 100% protected against mismating when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered

Subject to changes. Please also observe the further product documentation!

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#### d.) plugging one pole

## 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. 1 m $\Omega$  of contact resistance approx. 0.25 m $\Omega$  contact transition plug/socket

# Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	400 V
Rated impulse voltage (III / 3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

## 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
	Push-in 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
Fine-stranded conductor with ferrule, push-in termination, from	1,5 mm² / 16 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

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Total number of potentials	4
Conductor entry direction to mating direction	0°

## **Geometrical Data**

Pin spacing	10 mm / 0.394 inch
Width	40 mm / 1.575 inch
Height	12,9 mm / 0.508 inch
Depth	37,5 mm / 1.476 inch

## Mechanical data

Coding	В
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 70 N (depending on pole number)
Number of mating cycles	200, without resistive load $I_N = 25 \text{ A}$ , tested (4 mm²/AWG 12)

Marking	1253
Protection class	IP20
Note on protection class	In mated condition with strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas.)
Potential marking	1253

# Plug connection

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

## **Material Data**

Color	gray
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)

Subject to changes. Please also observe the further product documentation!

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Contact material	Copper or copper alloy (surface-treated)
Fire load	0.211 MJ
Weight	12.6g

## **Environmental Requirements**

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 ℃
Note on Continuous Service Temperature	Insulating parts for temperatures ≤ 105 °C

## Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4050821517559
Customs Tariff No.	85366990990

## Approvals / Certificates

# **UL-Approvals**

Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1977	E45171
c <b>SL</b> us	Underwriters Laboratories Inc.		Sec. 9

# Counterpart



Item no.770-254/081-000 Plug; 4-pole; Cod. B; 4,00 mm²; gray

www.wago.com/770-254/081-000

## Compatible products

#### Marking accessories



Item no.: 770-450 Marker card; Plastic; white

www.wago.com/770-450

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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E .	
No.	

Item no.: 770-450/000-001 Marker card; Plastic; white www.wago.com/770-450 /000-001



Item no.: 770-450/000-002 Marker card; Plastic; white

www.wago.com/770-450 /000-002



Item no.: 770-450/000-005 Marker card; Plastic; white www.wago.com/770-450 /000-005



Item no.: 770-450/000-006 Marker card; Plastic; white www.wago.com/770-450 /000-006



Item no.: 770-450/000-012 Marker card; Plastic; white www.wago.com/770-450

/000-012

tools

Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Locking lever

Item no.: 770-101 Locking lever; for flying leads; for manual operation; black

www.wago.com/770-101

Item no.: 770-111

Locking lever; for flying leads; for tool operation; black

www.wago.com/770-111

1

Item no.: 770-121

Locking lever; for flying leads; for manual operation; white

www.wago.com/770-121

Item no.: 770-131

Locking lever; for flying leads; for tool operation; white

www.wago.com/770-131

protection

Item no.: 770-201

Lockout cap; 12-pole, separable; 12-pole; for sockets; black

www.wago.com/770-201



Item no.: 770-221

Lockout cap; for socket; 12-pole; separable; white

www.wago.com/770-221

Strain relief plate



Item no.: 770-504

Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

www.wago.com/770-504

80

Item no.: 770-504/023-000

Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

www.wago.com/770-504 /023-000

Subject to changes. Please also observe the further product documentation!

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Item no.: 770-514

Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

www.wago.com/770-514

Item no.: 770-514/023-000

Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

www.wago.com/770-514 /023-000

# Downloads CAD/CAE-Data

**CAE** data

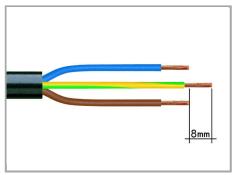
WSCAD Universe 770-244/081-000

URL

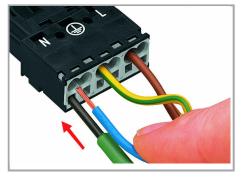
Download

#### **Installation Notes**

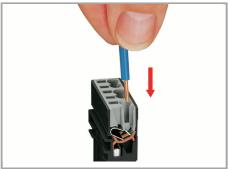
#### Conductor termination



1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.



Insert stripped solid conductor until it hits backstop.

- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm

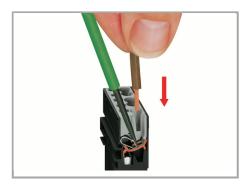
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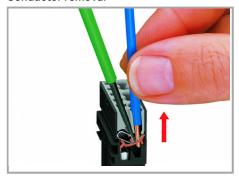
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To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.

## Conductor removal



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

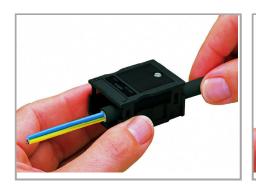
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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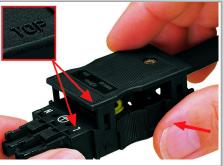
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing on the plug /socket. Note the "TOP" inscription.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw via screwdriver (2.5 mm blade width).

## Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

# Mismating protection

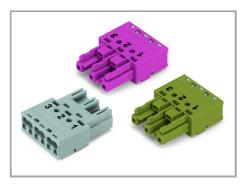
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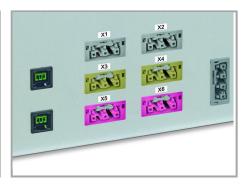




B-coded connectors with different colors can be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



Easy circuit identification via different marking and colors

## Important note:

Different colors and/or pole marking are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.

# **Product family**

<i>WINSTA</i>
<i MIDI special
Show all products from the family</ti>

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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