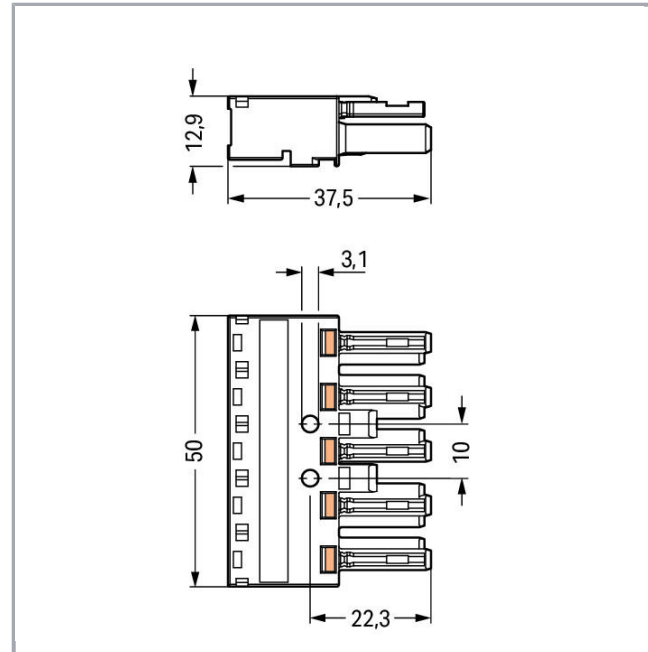
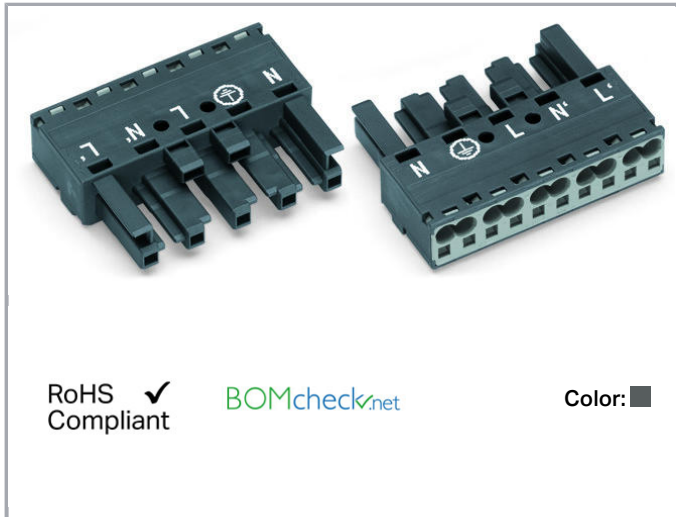


## Data sheet | Item number: 770-1165

Socket; 5-pole; Cod. L; 4,00 mm<sup>2</sup>; dark gray

[www.wago.com/770-1165](http://www.wago.com/770-1165)



### 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).

#### Note on mismatching protection:

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

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

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

**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 mΩ of contact resistance approx. 0.25 mΩ 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
Nominal cross section	4 mm <sup>2</sup>
Solid conductor	0,5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Solid conductor, push-in termination	1,5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG
Stranded conductor	0,5 ... 2,5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor	0,5 ... 4 mm <sup>2</sup> / 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
Fine-stranded conductor with ferrule, push-in termination, from	1,5 mm <sup>2</sup> / 16 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	5
Total number of connection points	10
Total number of potentials	5

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



Conductor entry direction to mating direction	0°
---	----

### Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	50 mm / 1.969 inch
Height	12,9 mm / 0.508 inch
Depth	37,5 mm / 1.476 inch

### Mechanical data

Coding	L
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 100, with resistive load $I_N = 25$ A, tested (4 mm <sup>2</sup> /AWG 12)
Marking	N L N' L'
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	N L N' L'
Application	Emergency power supply

### 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	retrofitable

### Material Data

Color	dark 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!

Contact material	Copper or copper alloy (surface-treated)
Fire load	0.263 MJ
Weight	15.7 g

### Environmental Requirements



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)
Packaging type	BOX
Country of origin	DE
GTIN	4050821064381
Customs Tariff No.	85366990990

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	IEC 61535	NL-32105
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	2173495.02
	<b>VDE</b> VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808

#### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1868589- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6

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




LR  
Lloyds Register

IEC 61984

02/20050  
(E6)



## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171 Sec. 9

## Counterpart



Item no.770-7505  
Linect® T-connector; 5-pole; Cod. L; 1 input; 2 outputs; white

[www.wago.com/770-7505](http://www.wago.com/770-7505)

Item no.770-1175  
Plug; 5-pole; Cod. L; 4,00 mm<sup>2</sup>; dark gray

[www.wago.com/770-1175](http://www.wago.com/770-1175)

Item no.771-8985/006-103  
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. L; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; dark gray

[www.wago.com/771-8985/006-103](http://www.wago.com/771-8985/006-103)

Item no.771-8985/206-103  
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. L; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; dark gray

[www.wago.com/771-8985/206-103](http://www.wago.com/771-8985/206-103)

## Compatible products

### Locking lever

















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

[www.wago.com/770-101](http://www.wago.com/770-101)

Item no.: 770-111  
Locking lever; for flying leads; for tool operation; black

[www.wago.com/770-111](http://www.wago.com/770-111)

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

	<b>Item no.: 770-121</b> Locking lever; for flying leads; for manual operation; white	<a href="http://www.wago.com/770-121">www.wago.com/770-121</a>
	<b>Item no.: 770-131</b> Locking lever; for flying leads; for tool operation; white	<a href="http://www.wago.com/770-131">www.wago.com/770-131</a>
<b>tools</b>		
	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
	<b>Item no.: 770-100</b> Wiring aid; for solid and stranded conductors; orange	<a href="http://www.wago.com/770-100">www.wago.com/770-100</a>
<b>Strain relief plate</b>		
	<b>Item no.: 770-505</b> Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black	<a href="http://www.wago.com/770-505">www.wago.com/770-505</a>
	<b>Item no.: 770-505/021-000</b> Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black	<a href="http://www.wago.com/770-505/021-000">www.wago.com/770-505/021-000</a>
	<b>Item no.: 770-505/023-000</b> Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black	<a href="http://www.wago.com/770-505/023-000">www.wago.com/770-505/023-000</a>
	<b>Item no.: 770-515</b> Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white	<a href="http://www.wago.com/770-515">www.wago.com/770-515</a>
	<b>Item no.: 770-515/021-000</b> Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white	<a href="http://www.wago.com/770-515/021-000">www.wago.com/770-515/021-000</a>
	<b>Item no.: 770-515/023-000</b> Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white	<a href="http://www.wago.com/770-515/023-000">www.wago.com/770-515/023-000</a>
<b>Marking accessories</b>		
	<b>Item no.: 770-450</b> Marker card; Plastic; white	<a href="http://www.wago.com/770-450">www.wago.com/770-450</a>
	<b>Item no.: 770-450/000-001</b> Marker card; Plastic; white	<a href="http://www.wago.com/770-450/000-001">www.wago.com/770-450/000-001</a>
	<b>Item no.: 770-450/000-002</b> Marker card; Plastic; white	<a href="http://www.wago.com/770-450/000-002">www.wago.com/770-450/000-002</a>
	<b>Item no.: 770-450/000-005</b> Marker card; Plastic; white	<a href="http://www.wago.com/770-450/000-005">www.wago.com/770-450/000-005</a>

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

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

[www.wago.com/770-450/000-006](http://www.wago.com/770-450/000-006)



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

[www.wago.com/770-450/000-012](http://www.wago.com/770-450/000-012)

#### protection

Item no.: 770-201  
Lockout cap; 12-pole; separable; 12-pole; for sockets; black

[www.wago.com/770-201](http://www.wago.com/770-201)



Item no.: 770-221  
Lockout cap; for socket; 12-pole; separable; white

[www.wago.com/770-221](http://www.wago.com/770-221)

## Downloads

### CAD/CAE-Data

#### CAE data

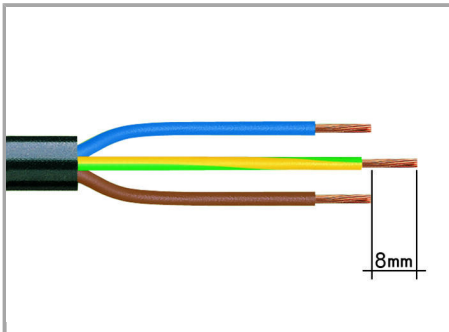
WSCAD Universe 770-1165

URL

Download

## Installation Notes

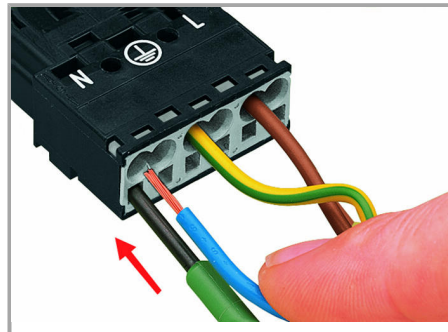
### Conductor termination



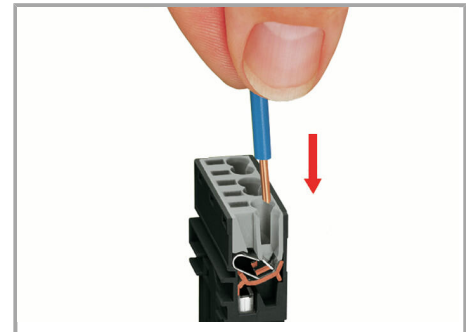
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

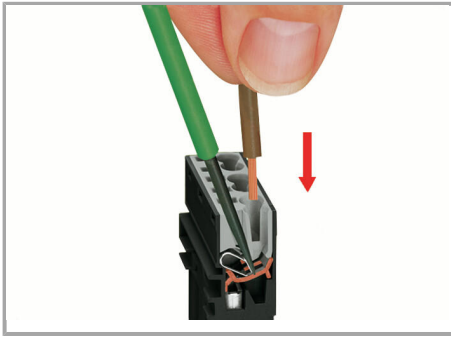


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.



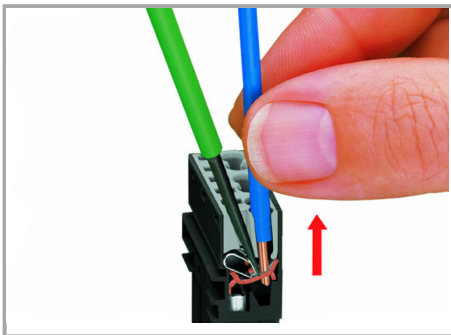
Insert stripped solid conductor until it hits backstop.

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



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

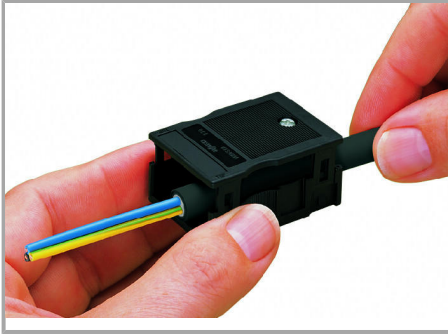


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

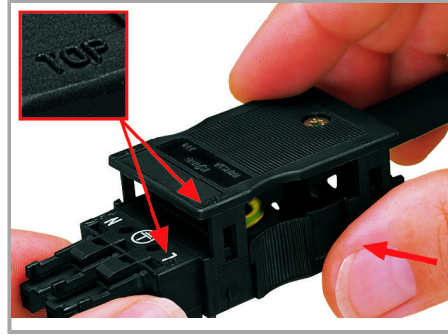
#### Installation

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

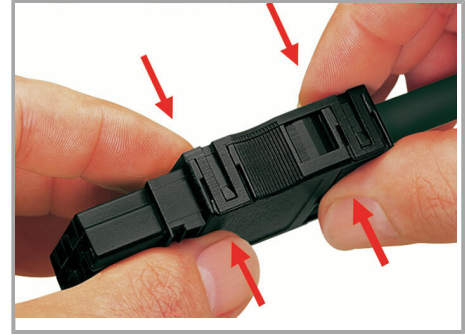




We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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).

## Product family

*WINSTA*® MIDI

[Show all products from the family](#)

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