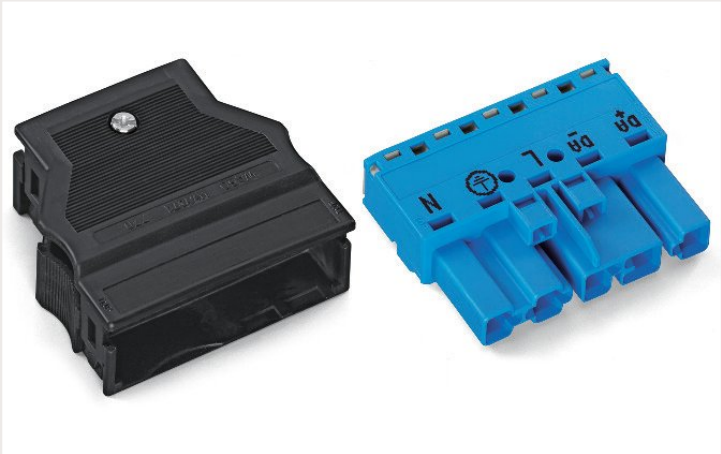
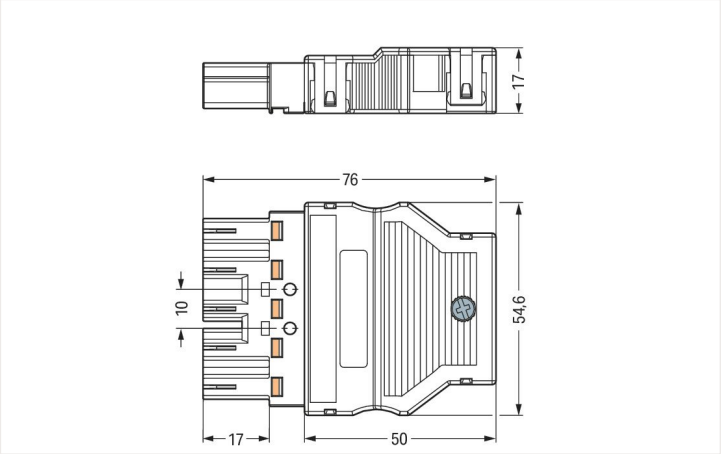
Data sheet | Item number: 770-1115/022-000

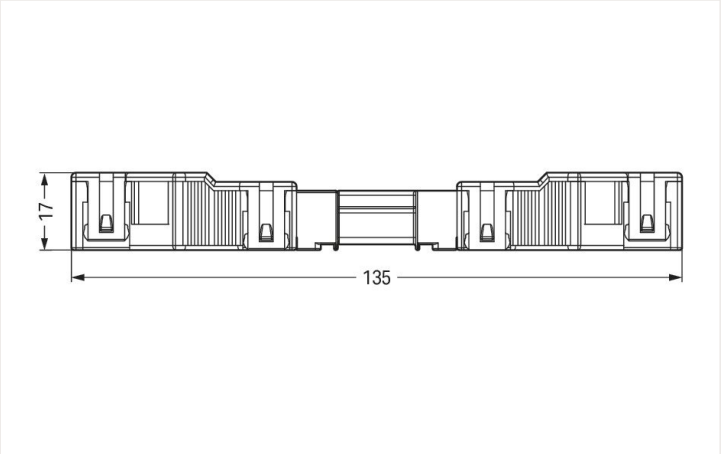
Plug; with strain relief housing; 5-pole; 4,00 mm²; blue

https://www.wago.com/770-1115/022-000





Dimensions in mm



Dimensions in mm

Overall length when mated

Male connector/plug *WINSTA*® MIDI rated current 25 A

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug with protection against mismating. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in next to no time. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Regulated lighting equipment, as implemented in the DALI standard, for example, is the main application of *WINSTA*® MIDI pluggable installation connectors with I coding. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – therefore it is suitable for powerful loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Due to the integrated test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs. The strip length is 55 mm.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose quality and durability – the *WINSTA*® MIDI pluggable installation connector with marking from WAGO makes the installation of electrical components substantially easier.

- effective protection against mismating
- for automation controllers
- with I coding for use in the automation of buildings (lighting control)
- custom-engineered solutions
- convenient installation and commissioning

Item includes

Item no.: 770-505	1
Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black	

Item no.: 770-1115	1
Plug; 5-pole; 4,00 mm²; blue	

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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

Ratings per UL

Note for the US market	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.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

General

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

Connection data

Total number of connection points	10
Total number of potentials	5
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm² / 12 AWG
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 insulated ferrule	0.25 … 1.5 mm² / 20 … 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm² / 20 … 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5
Connectable sheathed cable diameter	9 … 13 mm
Conductor entry direction to mating direction	0 °
Strip length (outer insulation)	55 mm

Continued on next page

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	75.9 mm / 2.988 inches

Mechanical data

Application	DALI, Lichtmanagement
Coding	I
Variable coding	No
Marking	DA+ DA- L ⏚ N
Potential marking	DA+ DA- L ⏚ N
Mating force of a plug-in connection	approx. 20 … 70 N (depending on pole number)
Retention force of a plug-in connection	Locked:
Unmating force of a plug-in connection	Unlocked: approx. 20 … 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Protection type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
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 d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	Locking lever
Note on locking system	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).
Strain relief	Strain relief housing

Material data

Note (material data)	Information on material data can be found here
Color	blue
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Fire load	0.657 MJ
Connector color	blue
Weight	29.1 g

Environmental requirements

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

Commercial data

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	25 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4050821223009
Customs tariff number VKOrg Germany	85366990990

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-1115/022-000

1 Compatible products

1.1 System counterpart

1.1.1 Cable assembly

Item no.: 771-9985/106-101
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

Item no.: 771-9985/006-101
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue

1.1.2 Distribution box

Item no.: 899-631/181-000
Distribution box; 230 V + DALI; 2 inputs; 6 outputs; Cod. A, I; MINI, MIDI; black

Item no.: 899-631/455-000
Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; black

Item no.: 899-631/313-000
Distribution box; DALI; 1 input; 5 outputs; Cod. I; MIDI; black

 Continued on next page

1.1.3 Distribution connector

Item no.: 770-618
3-way distribution connector; 5-pole; Cod. I; 1 input; 3 outputs; blue

Item no.: 770-1947
5-way distribution connector; 5-pole; Cod. I; 1 input; 5 outputs

Item no.: 770-992
h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 2 locking levers; blue

Item no.: 770-993
h-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; blue

Item no.: 770-7105
Linect® T-connector; 5-pole; Cod. I; 1 input; 2 outputs; blue

Item no.: 770-617
T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue

Item no.: 770-620
T-distribution connector; 5-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue

1.1.4 Female connector/socket

Item no.: 770-2105
Snap-in socket; 5-pole; Cod. I; 4,00 mm²; blue

Item no.: 770-3105/011-000
Socket for PCBs; angled; 5-pole; Cod. I; blue

Item no.: 770-3105
Socket for PCBs; straight; 5-pole; Cod. I; blue

Item no.: 770-1105
Socket; 5-pole; Cod. I; 4,00 mm²; blue

Item no.: 770-1105/022-000
Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue

1.1.5 Tap-off module

Item no.: 772-272
Tap-off module; for flat cable; 5 x 2.5 mm²; 5-pole; Cod. I; with cable connection on the output side; blue

1.2 Required accessories

1.2.1 Locking system

1.2.1.1 Locking system

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

Item no.: 770-121
Locking lever; for flying leads; for manual operation; white

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

Item no.: 770-131
Locking lever; for flying leads; for tool operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing

Item no.: 770-505/021-000
Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; black

Item no.: 770-515/021-000
Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; white

Item no.: 770-505/023-000
Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; black

Item no.: 770-515/023-000
Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; white

Item no.: 770-505
Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black

Item no.: 770-515
Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; white

 Continued on next page

1.3 Optional accessories

1.3.1 Coding

1.3.1.1 Coding

Item no.: 770-401
Coding pin; for plugs; Plastic; gray

1.3.2 Cover

1.3.2.1 Cover

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

Item no.: 897-2005
Protective cap; Type4; for sockets and plugs; PVC; red

1.3.3 Marking

1.3.3.1 Marker

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

Item no.: 770-450/000-001
Marker card; Plastic; green

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

Item no.: 770-450/000-005
Marker card; Plastic; red

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

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

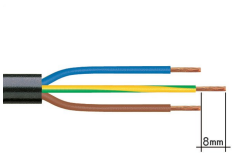
1.3.4 Tool

1.3.4.1 Operating tool

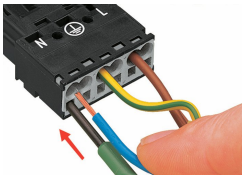
Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation notes

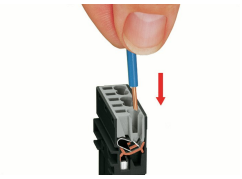
Conductor termination



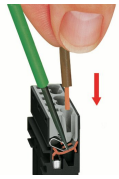
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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

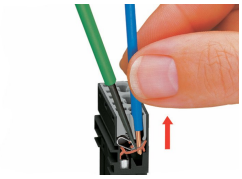


Insert the stripped solid conductor until it hits the backstop.



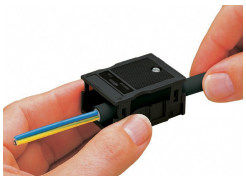
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

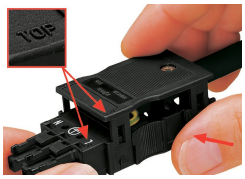


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

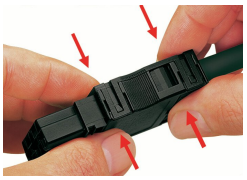
Installation



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 onto the plug/socket. Note the “TOP” inscription.



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

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