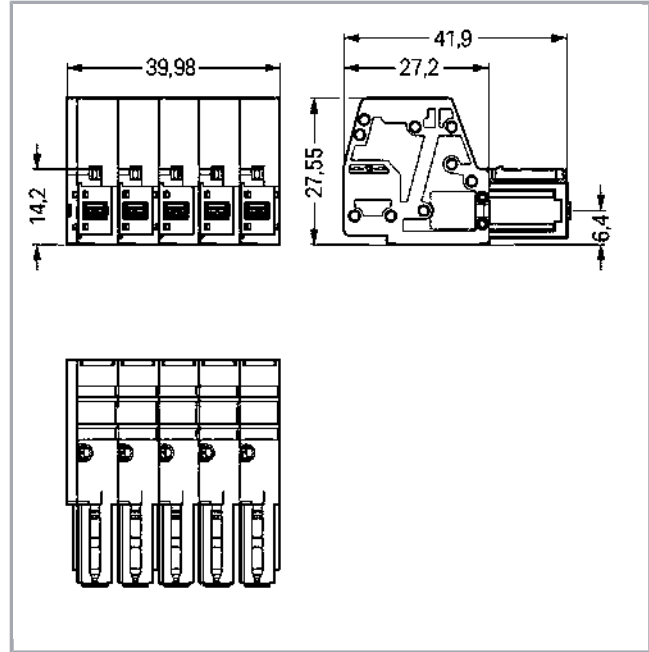
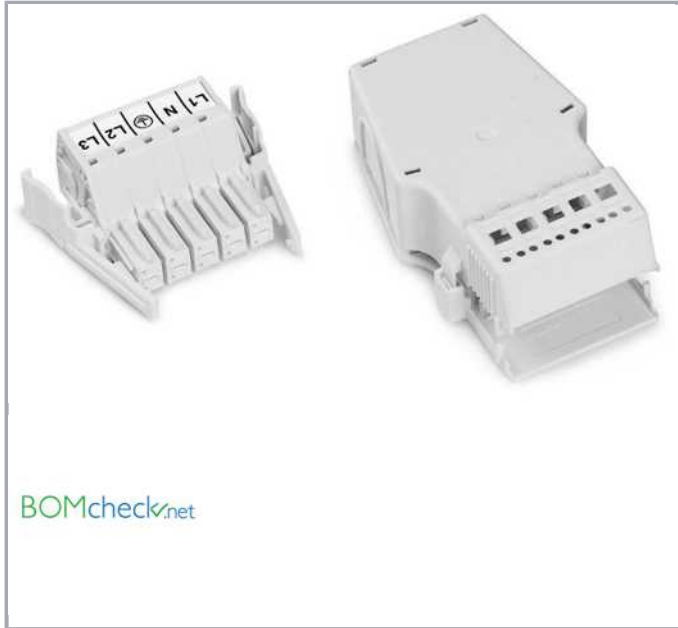


Data sheet | Item number: 831-3105/019-050

1-conductor female plug; 100% protected against mismating; 10 mm²; Pin spacing 7.62 mm; 6,00 mm²; white

www.wago.com/831-3105_019-050



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
- Minimize voltage drop over longer cable runs

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 in terms of:

- a.) plugging different number of poles
- b.) plugging when turned by 180°
- c.) plugging when laterally staggered
- d.) plugging one pole

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

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We are always happy to take your call at +49 (571) 887-44222.



Data

Electrical data

Note on Contact Resistance

approx. 1m Ω contact resistance approx. 0.25m Ω 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	35 A
Legend (ratings)	(III / 3) \triangleq Overvoltage category III / Pollution degree 3

Connection data

Actuation type	Operating tool Push-in
Nominal cross section	6 mm ²
Solid conductor	0.5 ... 6 mm ² / 20 ... 8 AWG
Stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor	0.5 ... 6 mm ² / 20 ... 8 AWG
Strip length	13 mm / 0.51 inch
No. of poles	5
Total number of connection points	5
Total number of potentials	5
Connectable sheathed cable diameter	13 ... 18 mm
Conductor entry direction to mating direction	0°

Geometrical Data

Pin spacing	7.62 mm / 0.3 inch
Width	39.98 mm / 1.574 inch
Height	27.55 mm / 1.085 inch
Depth	41.9 mm / 1.65 inch

Mechanical data

Mating force of a plug-in connection	approx. 30–70N (depending on number of poles)
Retention force of a plug-in connection	When locked: > 80 N
Unmating force of a plug-in connection	when unlocked: approx. 30–70N (depending on number of poles)

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Number of mating cycles

100, ohne ohmsche Last

50, mit ohmscher Last $I_N = 35 \text{ A}$, geprüft (6 mm²)

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.)

Plug connection

Connector connection type	for conductors
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	no

Material Data

Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy, surface-treated

Environmental Requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on Continuous Service Temperature	Insulating parts for temperatures $\leq 105 \text{ °C}$

Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
Customs Tariff No.	85366990990

Counterpart

Compatible products

tools

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

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Item no.: 210-721

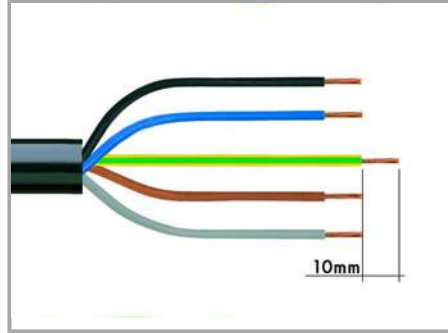
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft

www.wago.com/210-721

Installation Notes



Latch the top of the strain relief housing.

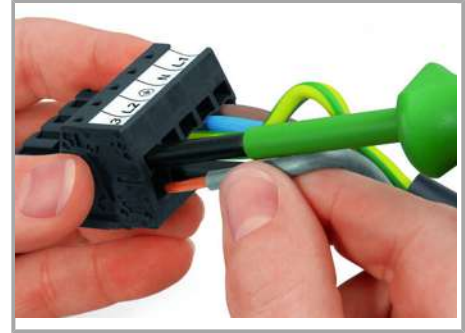


The following lengths are recommended:

1. Strip length, outer insulation = 80 mm

2. Strip length = 13 mm

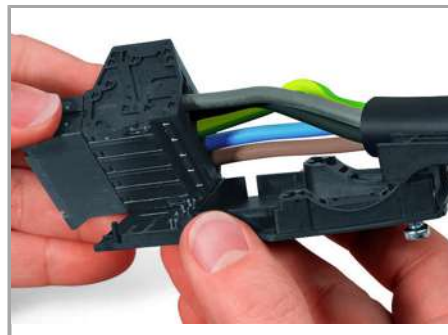
3. Extended ground conductor = 10 mm



To terminate fine-stranded conductors, open the clamping unit via screwdriver (5.5 mm blade width) and insert stripped conductor until it hits backstop.



Unscrew base of strain relief housing.



Snap wired connector onto the base.



Tighten strain relief using a screwdriver.

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



Wired connector fitted in base of strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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