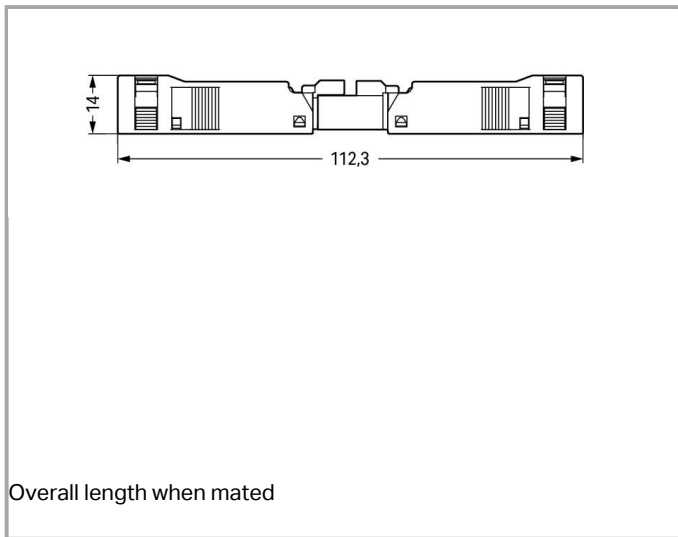
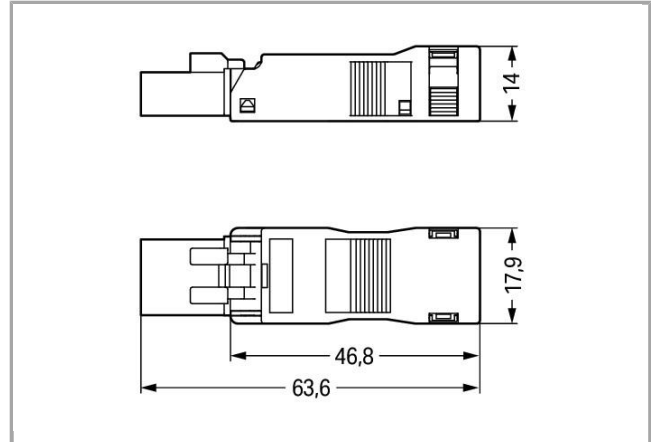
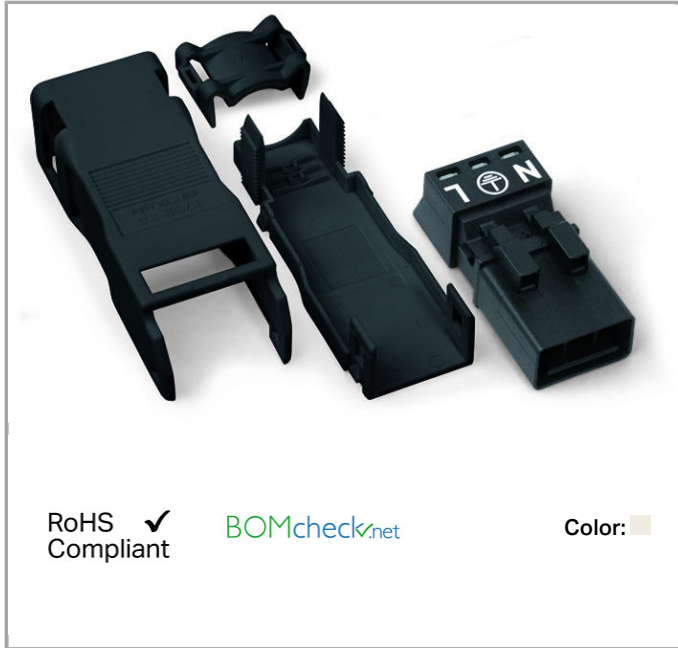


890-133



### 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
- Compact design with 4.4 mm pole spacing

**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 5 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)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated current	16 A

**Approvals per UL 1977**

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	14 A

**Connection data**

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross section	1.5 mm²
Solid conductor	0.25 ... 1.5 mm² / 22 ... 16 AWG
Solid conductor, push-in termination	0.75 ... 1.5 mm² / 20 ... 16 AWG
Stranded conductor	0.25 ... 1 mm² / 22 ... 18 AWG
Fine-stranded conductor	0.25 ... 1.5 mm² / 22 ... 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 ... 0.75 mm² / 22 ... 20 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 0.75 mm² / 22 ... 20 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions



No. of poles	3
Total number of connection points	3
Total number of potentials	3
Ground function	with preceding GND contact
Connectable sheathed cable diameter	4.5 ... 10 mm
Conductor entry direction to mating direction	0°
Strip length	40 mm

## Geometrical Data

Pin spacing	4.4 mm / 0.173 inch
Width	17.9 mm / 0.705 inch
Height	14 mm / 0.551 inch
Depth	63.6 mm / 2.504 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 $I_N = 16A$ , tested (1.5mm <sup>2</sup> /AWG 16)
Marking	L N
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	L N

## 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	0.17 MJ
Weight	6.602 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	4045454233013
Customs Tariff No.	85366990990

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL-49482
	CCA DEKRA Certification B.V.	EN 61535	71-102984
	CCA DEKRA Certification B.V.	IEC 61535	NL-35632
	CCA DEKRA Certification B.V.	EN 61535	2182129.01

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL	-	TAE00001Z6



Det Norske Veritas, Germanischer Lloyd



**DNV GL**

Det Norske Veritas, Germanischer Lloyd

-

TAE00001Z6

## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b>	UL 1977	E45171
	UL International Germany GmbH		
	<b>UL</b>	UL 1977	E45171
	UL International Germany GmbH		

## Compatible products

## shield connection

**Item no.: 890-523**

Shield connecting plate; 3-pole; for sockets and plugs

890-523

## tools

**Item no.: 210-719**

Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

210-719

**Item no.: 890-383**

Operating tool; 3-way

890-383

## assembling

**Item no.: 890-310**

Mounting carrier; 2- to 5-pole; for flying leads

890-310

**Item no.: 890-311**

Mounting carrier; 2- to 5-pole; for flying leads

890-311

## Locking lever

**Item no.: 890-101**

Locking lever; for manual operation

890-101

**Item no.: 890-111**

Locking lever; for flying leads; for tool operation

890-111



	<b>Item no.: 890-121</b> Locking lever; for manual operation	890-121
	<b>Item no.: 890-131</b> Locking lever; for flying leads; for tool operation	890-131

Downloads  
Documentation

Bid Text			
890-133	Apr 4, 2012	doc	Download
WINSTA MINI 3-polig		23.6 kB	

CAD/CAE - Smart Data  
CAD data

3D Download 890-133	URL	Download
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Subject to changes.