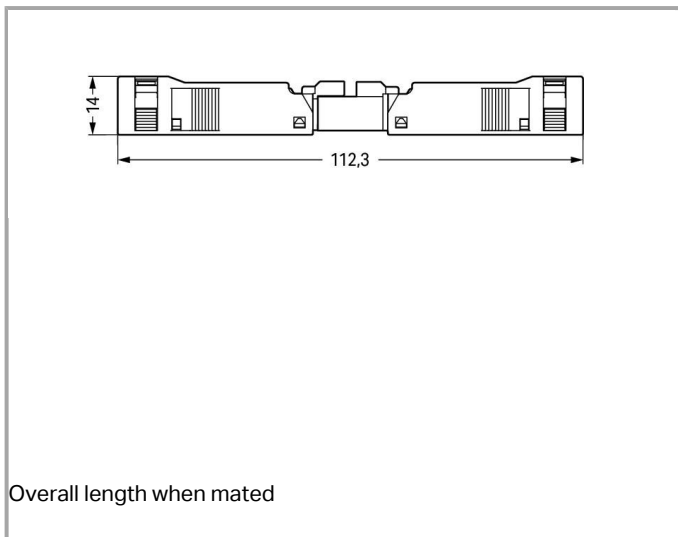
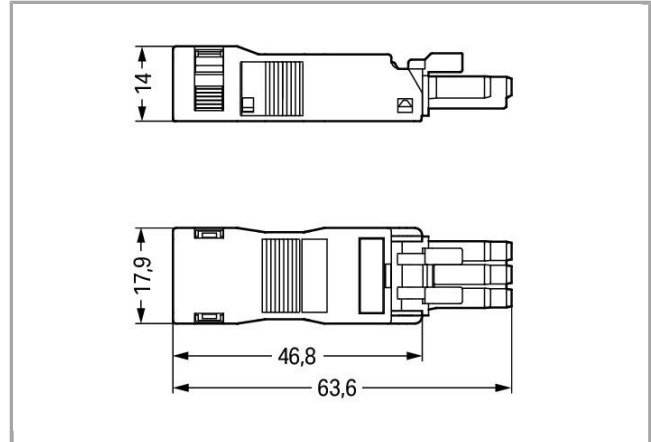
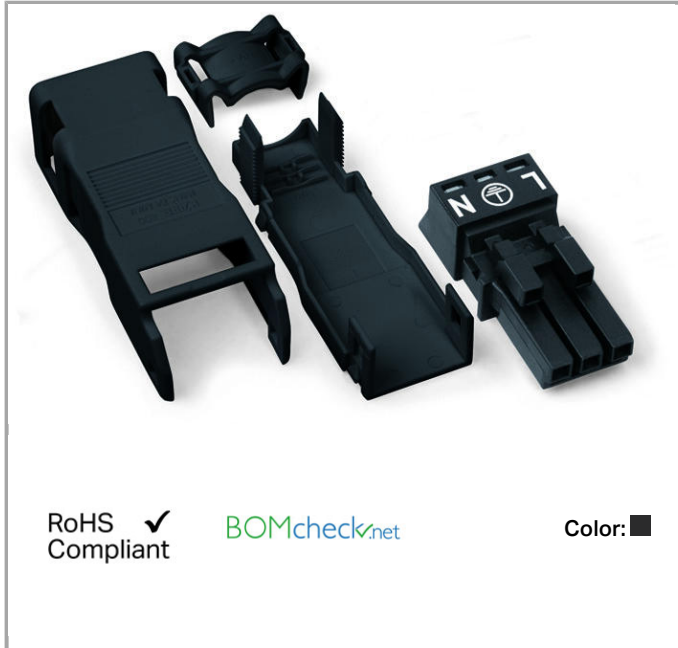


Data sheet | Item number: 890-103

Socket; with strain relief housing; 3-pole; Cod. A

890-103



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
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 ² /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)	Female connector/socket
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	black
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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	0.176 MJ
Weight	7.2 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 ≤ 105 °C

Commercial data


Product Group	20 (WINSTA)
Country of origin	DE
GTIN	4045454232856
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 Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6





DNV GL
Det Norske Veritas, Germanischer Lloyd

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TAE00001Z6

UL-Approvals





Logo	Approval	Additional Approval Text	Certificate name
	UL	UL 1977	E45171
	UL International Germany GmbH		
	UL	UL 1977	E45171
	UL International Germany GmbH		

Compatible products

tools

	Item no.: 210-719	210-719
	Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm	
	Item no.: 890-383	890-383
	Operating tool; 3-way	



Locking lever

	Item no.: 890-101	890-101
	Locking lever; for manual operation	
	Item no.: 890-111	890-111
	Locking lever; for flying leads; for tool operation	
	Item no.: 890-121	890-121
	Locking lever; for manual operation	
	Item no.: 890-131	890-131
	Locking lever; for flying leads; for tool operation	

shield connection

	Item no.: 890-523	890-523
	Shield connecting plate; 3-pole; for sockets and plugs	

assembling

	Item no.: 890-310	890-310
	Mounting carrier; 2- to 5-pole; for flying leads	
	Item no.: 890-311	890-311
	Mounting carrier; 2- to 5-pole; for flying leads	



Downloads
Documentation

Bid Text

890-103	Apr 4, 2012	doc	Download
WINSTA MINI 3-polig		23.6 kB	

CAD/CAE - Smart Data

CAD data

3D Download 890-103	URL	Download
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Subject to changes.