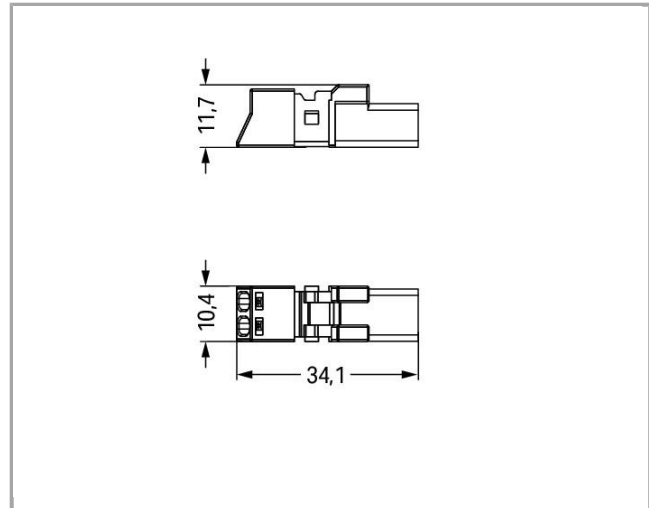
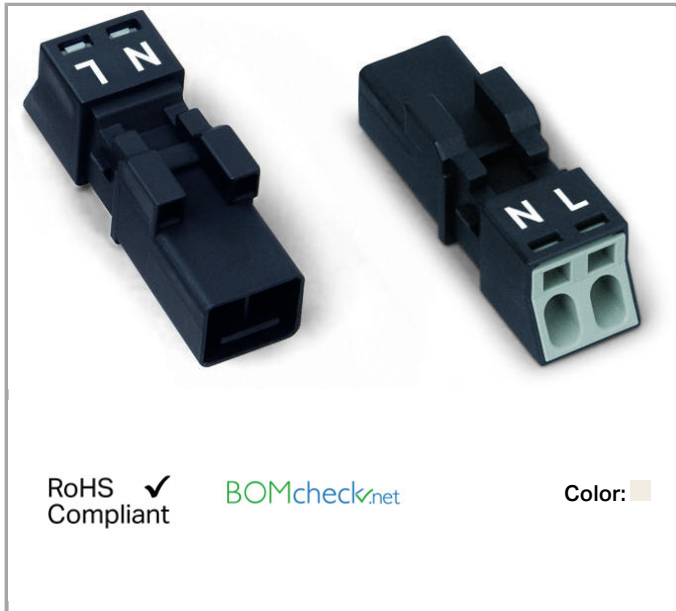


Data sheet | Item number: 890-232  
Plug; 2-pole; Cod. A; 1,50 mm<sup>2</sup>; white



890-232



### 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 mm <sup>2</sup>		
Solid conductor	0.25	1.5 mm <sup>2</sup> / 22	16 AWG
Solid conductor, push-in termination	0.75	1.5 mm <sup>2</sup> / 20	16 AWG
Stranded conductor	0.25	1 mm <sup>2</sup> / 22	18 AWG
Fine-stranded conductor	0.25	1.5 mm <sup>2</sup> / 22	16 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25	0.75 mm <sup>2</sup> / 22	20 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25	0.75 mm <sup>2</sup> / 22	20 AWG
Strip length	9 mm / 0.35 inch		
Note (strip length)	see also packaging or instructions		
Total number of connection points	2		
Total number of potentials	2		
Conductor entry direction to mating direction	0°		
No. of poles	2		

### Geometrical Data

Pin spacing	4.4 mm / 0.173 inch
Width	10.4 mm / 0.409 inch
Height	11.7 mm / 0.461 inch
Depth	34.1 mm / 1.343 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
Mismatching protection	Yes
Locking of plug-in connection	locking lever
Locking lever	no

### 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	0.056 MJ
Weight	2.51 g

### Environmental Requirements

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	PL
GTIN	4055143548496
Customs Tariff No.	85366990990

### Approvals / Certificates



Radio-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL-49482


## 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
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR	EN 61535	08/20047 (E1)

## Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	EN 61535	08/20047 (E2)





## Other Approvals

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





## Compatible products





## Locking lever

	<b>Item no.: 890-101</b> Locking lever; for manual operation; black	890-101
	<b>Item no.: 890-111</b> Locking lever; for flying leads; for tool operation; black	890-111
	<b>Item no.: 890-121</b> Locking lever; for manual operation; white	890-121
	<b>Item no.: 890-131</b> Locking lever; for flying leads; for tool operation; white	890-131

## tools

	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	210-719
	<b>Item no.: 890-382</b> Operating tool; 2-way; green	890-382

## Strain relief plate

	<b>Item no.: 890-502</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; black	890-502
	<b>Item no.: 890-502/342-000</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; black	890-502 /342-000
	<b>Item no.: 890-512</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; white	890-512
	<b>Item no.: 890-512/342-000</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; white	890-512 /342-000

## assembling

	<b>Item no.: 890-310</b> Mounting carrier; 2- to 5-pole; for flying leads; black	890-310
	<b>Item no.: 890-311</b> Mounting carrier; 2- to 5-pole; for flying leads; white	890-311



**Downloads**

**Documentation**

**Bid Text**

890-232	Apr 4, 2012	doc	Download
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**CAD/CAE - Smart Data**

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Subject to changes.

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