

#### Item description

- Protected against mismatching and maintenance-free

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- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Two-wire connection per pole for loops or bridges
- Additional variable coding is possible

**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 16 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)	400 V
Rated impulse voltage (III / 3)	6 kV
Rated current	32 A

**Approvals per UL 1977**

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	23 A

**Connection data**

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross section	4 mm²
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 ferrule with plastic collar	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	4
Total number of connection points	8
Total number of potentials	4
Conductor entry direction to mating direction	0°

### Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	45.5 mm / 1.791 inch
Height	18.5 mm / 0.728 inch
Depth	37.5 mm / 1.476 inch

### Mechanical data

Coding	Q
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 $I_N = 25A$ , tested (4 mm <sup>2</sup> /AWG 12)
Gehäuseblechstärke	0.5 ... 2 mm / 0.02 ... 0.079 inch
Mounting type	Snap-in
Marking	N PE1 PE2 L
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	N PE1 PE2 L

### 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	yes

## Material Data

Color	green
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	0.296 MJ
Weight	15.47 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



Country of origin	DE
GTIN	4045454299170
Customs Tariff No.	85366990990

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	2173495.02
	CCA DEKRA Certification B.V.	IEC 61535	NL-32105

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241528- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6



**DNV GL**  
Det Norske Veritas, Germanischer Lloyd

TAE00001Z6




**LR**  
Lloyds Register

IEC 61984





02/20050  
(E6)

## UL-Approvals


Logo	Approval	Additional Approval Text	Certificate name
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171 Sec. 9

## Compatible products

## protection

	Item no.: 770-201 Lockout cap; 12-pole, separable; 12-pole; for sockets	770-201
	Item no.: 770-221 Lockout cap; for socket; 12-pole; separable	770-221
	Item no.: 770-644 Lockout cap; for cutout; for cutouts; Plastic	770-644
	Item no.: 770-694 Lockout cap; for cutout; for cutouts; Plastic	770-694

## tools

	Item no.: 210-720 Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	210-720
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## Downloads

## Documentation

## Bid Text

770-2324	Apr 4, 2012	doc 24.1 kB	Download
WINSTA MIDI 4-polig			



Subject to changes.

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