

### 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
- 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

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**Ratings per IEC/EN 60664-1**

Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated current	25 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 mm² / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 2.5 mm² / 20 ... 14 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	6
Total number of potentials	3
Connectable sheathed cable diameter	7 ... 11.5 mm
Conductor entry direction to mating direction	0°
Strip length	48 mm

## Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	30 mm / 1.181 inch
Height	15.6 mm / 0.614 inch
Depth	77 mm / 3.031 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 $I_N = 25A$ , tested (4 mm <sup>2</sup> /AWG 12)
Marking	L N
Protection class	IP 2xD
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	Zugentlastungsgehäuse

## 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	0.403 MJ
Strain relief color	black
Weight	17.585 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	4055143209168
Customs Tariff No.	85366990990



## Approvals / Certificates

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	IEC 61984	02/20050 (E6)

## Compatible products

### Marking accessories

	Item no.: 770-450 Marker card; Plastic	770-450
	Item no.: 770-450/000-001 Marker card; Plastic	770-450 /000-001



**Item no.: 770-450/000-002**  
Marker card; Plastic

/000-002

770-450



**Item no.: 770-450/000-005**  
Marker card; Plastic

/000-005

770-450



**Item no.: 770-450/000-006**  
Marker card; Plastic

/000-006

770-450



**Item no.: 770-450/000-012**  
Marker card; Plastic

/000-012

770-450

#### shield connection



**Item no.: 770-523**  
Shield connecting plate; 3-pole; for sockets and plugs

770-523

#### Locking lever



**Item no.: 770-101**  
Locking lever; for flying leads; for manual operation

770-101



**Item no.: 770-111**  
Locking lever; for flying leads; for tool operation

770-111



**Item no.: 770-121**  
Locking lever; for flying leads; for manual operation

770-121



**Item no.: 770-131**  
Locking lever; for flying leads; for tool operation

770-131

#### 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

#### tools



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

210-720



**Item no.: 770-383**  
Operating tool; 3-way

770-383

#### Downloads

##### Documentation

##### Bid Text

770-203/035-000

doc  
24.1 kB

[Download](#)



Subject to changes.

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