

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
- Two-wire connection per pole for loops or bridges
- Components can be clearly printed on and color-coded to meet custom requirements

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. 1m Ω contact resistance approx. 0.25m Ω 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	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		
Total number of connection points	4		
Total number of potentials	2		
Conductor entry direction to mating direction	0°		
No. of poles	2		

Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	20 mm / 0.787 inch
Height	12.9 mm / 0.508 inch
Depth	37.5 mm / 1.476 inch

Mechanical data

Coding	B
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 mm²/AWG 12)

Marking	+ -
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	+ -

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	pink
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	0.127 MJ
Weight	6.536 g

Environmental Requirements

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 °C
Note on Continuous Service Temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

Country of origin	DE
GTIN	4050821553151
Customs Tariff No.	85366990990

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
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cURus
Underwriters Laboratories Inc.

UL 1977



E45171
Sec. 9

Compatible products





General accessories

	Item no.: 770-317 Snap-in frame; 2-pole; 0.5 ... 2.0 mm; black	770-317
	Item no.: 770-337 Snap-in frame; 2-pole; 0.5 ... 2.0 mm; white	770-337


tools

	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	210-719
	Item no.: 770-382 Operating tool; 2-way; green	770-382




Locking lever

	Item no.: 770-101 Locking lever; for flying leads; for manual operation; black	770-101
	Item no.: 770-111 Locking lever; for flying leads; for tool operation; black	770-111
	Item no.: 770-121 Locking lever; for flying leads; for manual operation; white	770-121
	Item no.: 770-131 Locking lever; for flying leads; for tool operation; white	770-131

protection

	Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow	770-360
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Strain relief plate

	Item no.: 770-502/041-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; black	770-502	/041-000
	Item no.: 770-502/042-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black	770-502	/042-000
	Item no.: 770-512/041-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; white	770-512	/041-000



Item no.: 770-512/042-000
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white

770-512
/042-000

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Documentation
Bid Text

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Subject to changes.