

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
- Additional variable coding is possible
- 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. 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	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 mm ²
Solid conductor	0.5 4 mm ² / 20 12 AWG
Solid conductor, push-in termination	1.5 4 mm ² / 16 12 AWG
Stranded conductor	0.5 2.5 mm ² / 20 14 AWG
Fine-stranded conductor	0.5 4 mm ² / 20 12 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 1.5 mm ² / 20 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 2.5 mm ² / 20 14 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
Total number of connection points	6
Total number of potentials	3
Conductor entry direction to mating direction	0°
No. of poles	3

Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	30 mm / 1.181 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	1 2
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	1 2

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

Material Data

Color	light 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	0.162 MJ
Weight	9.575 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	4050821553397
Customs Tariff No.	85366990990

Approvals / Certificates

Other Approvals

Logo	Approval	Additional Approval Text	Certificate name




cURus
Underwriters Laboratories Inc.

UL 1977



E45171
Sec. 9

UL-Approvals





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

Compatible products



protection

	Item no.: 770-201 Lockout cap; 12-pole, separable; 12-pole; for sockets; black	770-201
	Item no.: 770-221 Lockout cap; for socket; 12-pole; separable; white	770-221

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

tools

	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	210-719
	Item no.: 770-383 Operating tool; 3-way; green	770-383

Marking accessories

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

	Item no.: 770-450/000-002 Marker card; Plastic; yellow	/000-002	770-450
	Item no.: 770-450/000-005 Marker card; Plastic; red	/000-005	770-450
	Item no.: 770-450/000-006 Marker card; Plastic; blue	/000-006	770-450
	Item no.: 770-450/000-012 Marker card; Plastic	/000-012	770-450
Strain relief plate			
	Item no.: 770-503 Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black		770-503
	Item no.: 770-503/021-000 Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black	/021-000	770-503
	Item no.: 770-503/023-000 Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black	/023-000	770-503
	Item no.: 770-503/032-000 Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black	/032-000	770-503
	Item no.: 770-503/035-000 Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black	/035-000	770-503
	Item no.: 770-503/038-000 Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black	/038-000	770-503
	Item no.: 770-513 Strain relief housing; 3-pole; for 1 cable; 8.0 ... 11.5 mm; 55 mm; white		770-513
	Item no.: 770-513/021-000 Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white	/021-000	770-513
	Item no.: 770-513/023-000 Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white	/023-000	770-513
	Item no.: 770-513/032-000 Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white	/032-000	770-513
	Item no.: 770-513/035-000 Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white	/035-000	770-513



Item no.: 770-513/038-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

770-513

7038-000

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Documentation

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