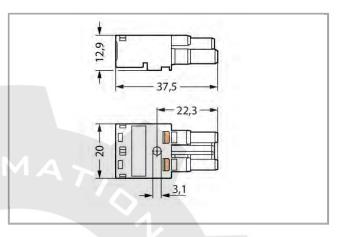
Socket; 2-pole; Cod. A

770-222







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

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. $1m\Omega$ contact resistance

770-222



approx. $0.25m\Omega$ contact transition plug/socket

Ratings	ner IF	C/FN	60664-1
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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	2
Total number of connection points	4
Total number of potentials	2
Conductor entry direction to mating direction	0°

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	A
Mating force of a plug-in connection	approx. 20 70 N (depending on pole number)

770-222



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 ² /AWG 12)
	100, with resistive load I _N = 25A, tested (4 mm²/AWG 12)

Marking	LN
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	LN

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	white
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	VO
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy, surface-treated
Fire load	0.114 MJ
Weight	6.58 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 ≤ 105 °C

Commercial data

Product Group	20 (WINSTA)
Country of origin	DE
GTIN	4050821028130

770-222



Customs Tariff No. 85366990990

Approvals / Certificates

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
DNV-GL MARITIME	DNV GL Det Norske Veritas, Germanischer Lloyd		TAE00001Z6
BASSAGE	LR Lloyds Register	IEC 61984	02/20050 (E6)

Compatible products

Strain relief plate

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45	Item no.: 770-502/041-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 10.5 mm; 35 mm	/041-000	770-502
46	Item no.: 770-502/042-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 9.0 mm; 35 mm	1042-000	770-502
••	Item no.: 770-512/041-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 10.5 mm; 35 mm	/041-000	770-512
••	Item no.: 770-512/042-000 Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 9.0 mm; 35 mm	/U42-UUU	770-512
rotection			
-	Item no.: 770-201 Lockout cap; 12-pole, separable; 12-pole; for sockets		770-201
1	Item no.: 770-221 Lockout cap; for socket; 12-pole; separable		770-221
ools			
1	Item no.: 210-720 Operating tool with partially insulated shaft; Type 2, blade (3.5 \times 0.5) mm		210-720
	Item no.: 770-382 Operating tool; 2-way		770-382

770-222



General ac	cessories			
	Item no.: 770-317			
10	Snap-in frame; for 2-pole sockets and plugs; 2-pole			770-317
1 P. 10 10	Item no.: 770-337			770 007
19	Snap-in frame; for 2-pole sockets and plugs; 2-pole			770-337
Locking lev	ver			
-	Item no.: 770-101			770-101
-	Locking lever; for flying leads; for manual operation			770-101
	Item no.: 770-111			770-111
	Locking lever; for flying leads; for tool operation			770-111
	Item no.: 770-121			770-121
10	Locking lever; for flying leads; for manual operation			770-121
	Item no.: 770-131			770 101
1	Locking lever; for flying leads; for tool operation			770-131
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Subject to changes.