

## 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

## 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	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	4
Total number of connection points	8
Total number of potentials	4
Ground function	with preceding GND contact
Conductor entry direction to mating direction	0°

**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	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	N 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	N 2/L 1/L'

## Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for conductors
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	no

## Material Data

Color	black
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	0.248 MJ
Weight	12.858 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	4044918254519
Customs Tariff No.	85366990990

## Approvals / Certificates


## Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889

## Ship Approvals




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














## UL-Approvals

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

## Compatible products

## 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

	<b>Item no.: 770-131</b> Locking lever; for flying leads; for tool operation	770-131
<b>tools</b>		
	<b>Item no.: 210-720</b> Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	210-720
<b>Marking accessories</b>		
	<b>Item no.: 770-450</b> Marker card; Plastic	770-450
	<b>Item no.: 770-450/000-001</b> Marker card; Plastic	770-450 /000-001
	<b>Item no.: 770-450/000-002</b> Marker card; Plastic	770-450 /000-002
	<b>Item no.: 770-450/000-005</b> Marker card; Plastic	770-450 /000-005
	<b>Item no.: 770-450/000-006</b> Marker card; Plastic	770-450 /000-006
	<b>Item no.: 770-450/000-012</b> Marker card; Plastic	770-450 /000-012
<b>Strain relief plate</b>		
	<b>Item no.: 770-504</b> Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm	770-504
	<b>Item no.: 770-504/023-000</b> Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm	770-504 /023-000
	<b>Item no.: 770-514</b> Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm	770-514
	<b>Item no.: 770-514/023-000</b> Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm	770-514 /023-000
<b>protection</b>		
	<b>Item no.: 770-360</b> Lockout cap; for plugs; 5-pole; separable	770-360

## Downloads

## Documentation

## Bid Text

770-214

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WINSTA MIDI 4-polig

24.1 kB

CAD/CAE - Smart Data

CAD data

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Subject to changes.