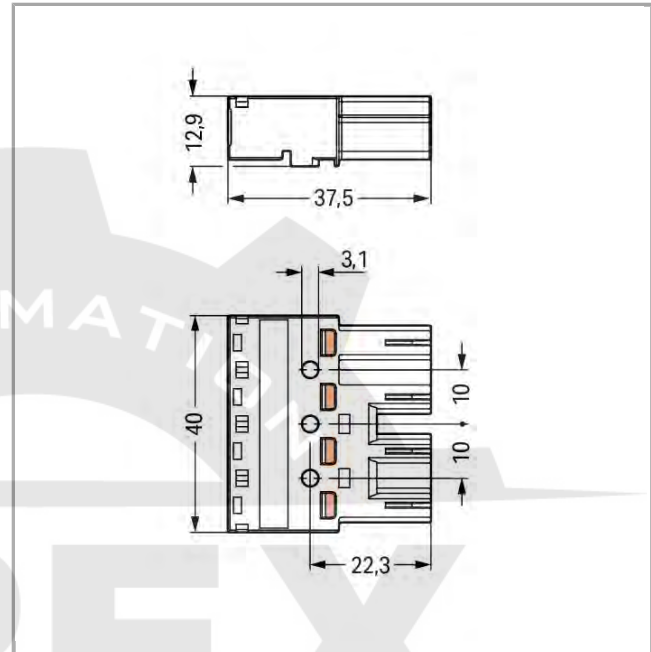




Item description

- 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. 1 mΩ contact resistance

approx. 0.25 mΩ 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	40 mm / 1.575 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 ² /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	white
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	4044918254595
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA	EN 61535	2173495.02
	DEKRA Certification B.V.		
	CCA	IEC 61535	NL-32105
	DEKRA Certification B.V.		
	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS	-	14-
	American Bureau of Shipping		HG1241528-PDA
	DNV GL	-	TAE00001Z6
	Det Norske Veritas, Germanischer Lloyd		
	DNV GL	-	TAE00001Z6
	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	02/20050
	Lloyds Register		(E6)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		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
	Item no.: 770-131 Locking lever; for flying leads; for tool operation	770-131

Strain relief plate

	Item no.: 770-504 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm	770-504
	Item no.: 770-504/023-000 Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm	770-504 /023-000
	Item no.: 770-514 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm	770-514
	Item no.: 770-514/023-000 Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm	770-514 /023-000

tools

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

	Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable	770-360
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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	770-450 /000-002
	Item no.: 770-450/000-005 Marker card; Plastic	770-450 /000-005
	Item no.: 770-450/000-006 Marker card; Plastic	770-450 /000-006
	Item no.: 770-450/000-012 Marker card; Plastic	770-450 /000-012

Downloads

Documentation

Bid Text			
770-234	Apr 4, 2012	doc 24.1 kB	Download
WINSTA MIDI 4-polig			

CAD/CAE - Smart Data

CAD data			
3D Download 770-234		URL	Download

Subject to changes.