

Data sheet | Item number: 770-103

Socket; with strain relief housing; 3-pole; Cod. A

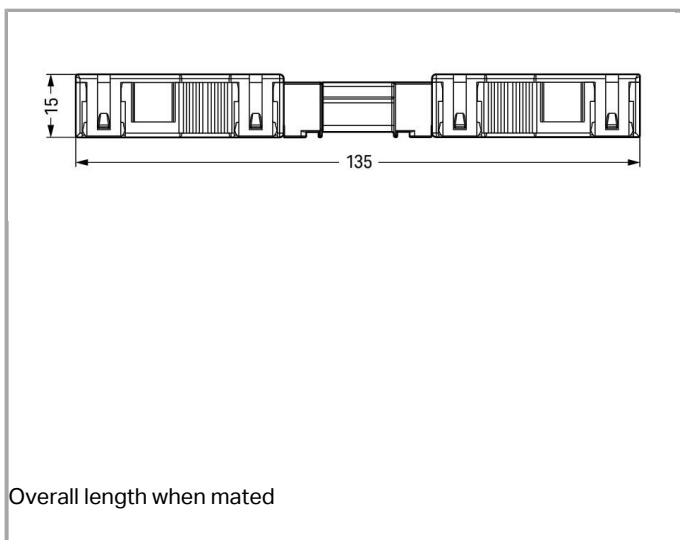
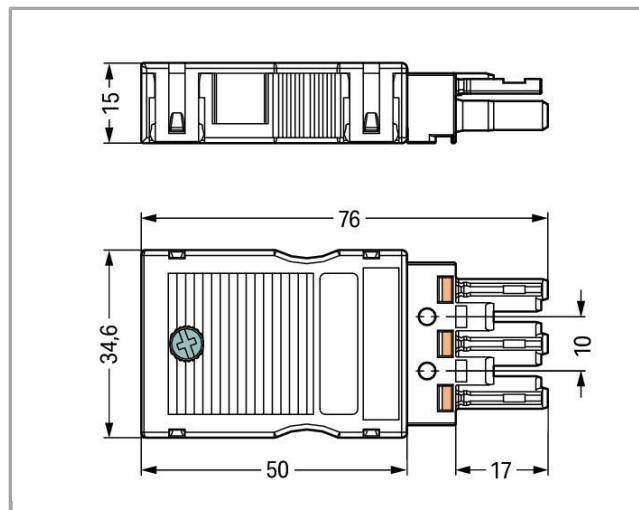
770-103



RoHS  
Compliant ✓

[BOMcheck.net](https://www.bomcheck.net)

Color: ■



Overall length when mated

Item description

Black coding A (L N)

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 <sup>2</sup>
Solid conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Solid conductor, push-in termination	1.5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Strip length	9 mm / 0.35 inch
Note (strip length)	see also packaging or instructions
No. of poles	3
Total number of connection points	6



Total number of potentials	3
Connectable sheathed cable diameter	8 ... 11.5 mm
Conductor entry direction to mating direction	0°
Strip length	55 mm
Number of test slots	3

### Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	34.6 mm / 1.362 inch
Height	15 mm / 0.591 inch
Depth	75.9 mm / 2.988 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	L N
Protection class	IP 2xC
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	L N

### 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
Strain relief	Strain relief housing

### 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	0.421 MJ
Strain relief color	black
Weight	20 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 $\leq 105$ °C

### Commercial data


Product Group	20 (WINSTA)
Country of origin	DE
GTIN	4044918252096
Customs Tariff No.	85366990990

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL-32105
	CCA DEKRA Certification B.V.	EN 61535	2173495.02
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808

#### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241528- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6




<b>DNV GL</b>	-	TAE00001Z6
Det Norske Veritas, Germanischer Lloyd		







<b>LR</b>	IEC 61984	02/20050 (E6)
Lloyds Register		

**UL-Approvals**


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

**Compatible products**

**Locking lever**

	<b>Item no.: 770-101</b> Locking lever; for flying leads; for manual operation	770-101
	<b>Item no.: 770-111</b> Locking lever; for flying leads; for tool operation	770-111
	<b>Item no.: 770-121</b> 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

**Marking accessories**

	<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



Item no.: 770-450/000-005  
Marker card; Plastic

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/000-005

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Item no.: 770-450/000-006  
Marker card; Plastic

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/000-006

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Item no.: 770-450/000-012  
Marker card; Plastic

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/000-012

770-450

protection



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

770-201



Item no.: 770-221  
Lockout cap; for socket; 12-pole; separable

770-221

tools



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

210-720



Item no.: 770-383  
Operating tool; 3-way

770-383

Downloads

Documentation

Bid Text

770-103	Apr 4, 2012	doc	Download
WINSTA MIDI 3-polig		24.1 kB	

CAD/CAE - Smart Data

CAD data

3D Download 770-103	URL	Download
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Subject to changes.