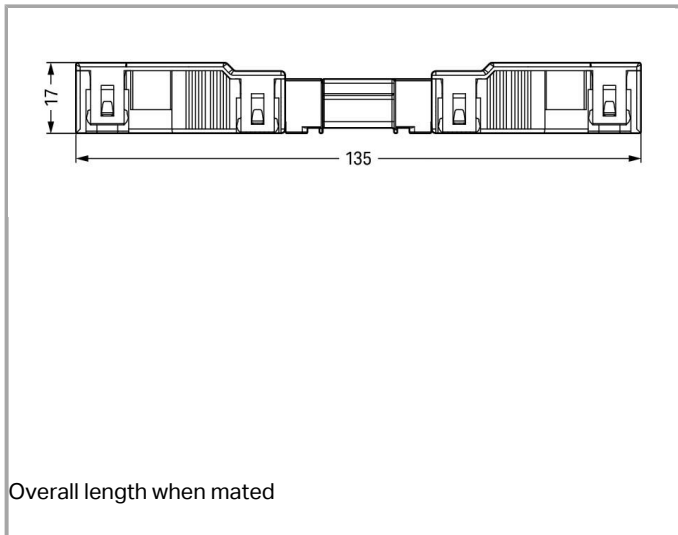
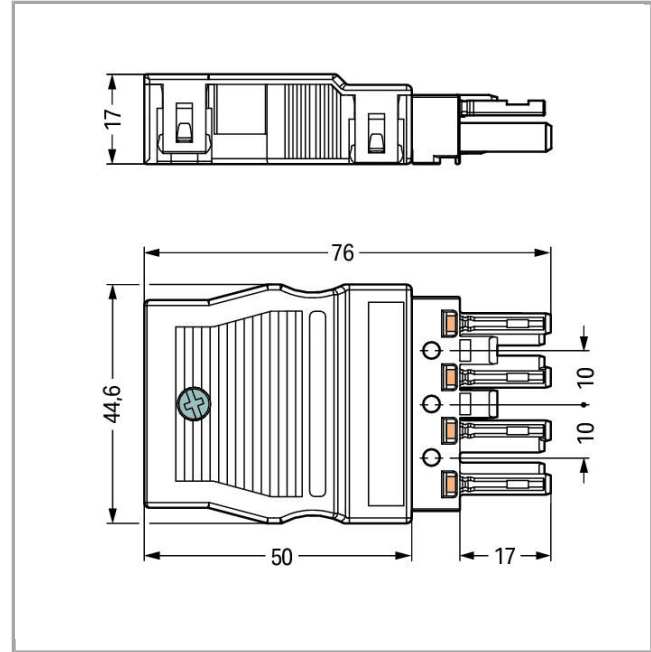
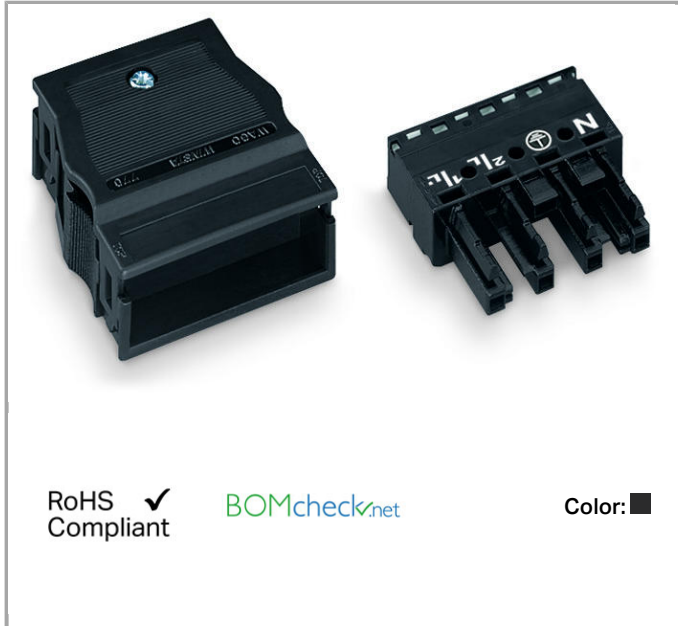


# Data sheet | Item number: 770-104

Socket; with strain relief housing; 4-pole; Cod. A

770-104



## 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).

**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 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	4
Total number of connection points	8
Total number of potentials	4



Connectable sheathed cable diameter	9 ... 13 mm
Conductor entry direction to mating direction	0°
Strip length	55 mm

### Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	44.6 mm / 1.756 inch
Height	17 mm / 0.669 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	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)	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	0.534 MJ
Weight	24.438 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	4044918252126
Customs Tariff No.	85366990990

### Approvals / Certificates

#### Country specific Approvals

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

#### Ship Approvals

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




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


##### protection

	<b>Item no.: 770-201</b> Lockout cap; 12-pole, separable; 12-pole; for sockets	770-201
	<b>Item no.: 770-221</b> Lockout cap; for socket; 12-pole; separable	770-221

##### 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

##### tools

	<b>Item no.: 210-720</b> Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	210-720
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##### Marking accessories

	<b>Item no.: 770-450</b> Marker card; Plastic	770-450
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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

770-104	Apr 4, 2012	doc	Download
WINSTA MIDI 4-polig		24.1 kB	

## CAD/CAE - Smart Data

### CAD data

3D Download 770-104	URL	Download
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Subject to changes.