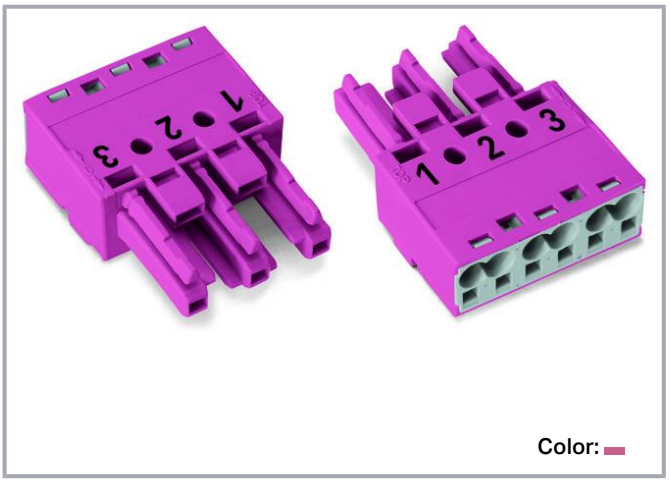
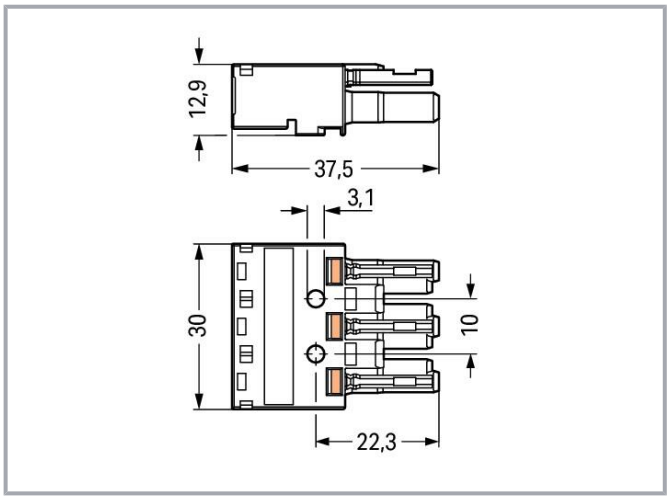
Data sheet | Item number: 770-283

Socket; 3-pole; Cod. B; 4,00 mm²; pink

www.wago.com/770-283





Item description

Female connector/socket *WINSTA*® MIDI rated current 25 A

The *WINSTA*® MIDI female connector/socket 3-pole is the pluggable solution for your application in control cabinets, on PCBs or for lighting connections. WAGO pluggable installation connectors can be used when criteria repeat or are planned on a specific grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Pluggable installation connectors with B coding from the *WINSTA*® MIDI line are available in gray, light green, or pink, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Your own pole marking is possible, too. This pluggable installation connector can be used for a voltage load of up to 25 A. Thus, it can also be used for high power loads. Our *WINSTA*® MIDI product line guarantees flexibility for the electrical installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers flexibility and customization for meeting various installation requirements.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection

Subject to changes. Please also observe the further product documentation!

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technology too! Plan your installation with with marking from WAGO.

-
- pluggable installation connectors with protection against mismating
- for automation controllers
- for automation controllers
- flexible installation to save space
- convenient installation and commissioning

Data

Notes

Variants:	Other pole markings Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL 1977

Note for the US market	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.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

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Connection data

Connection points	6
Total number of potentials	3

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm² / 12 AWG
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 insulated ferrule	0.25 … 1.5 mm² / 20 … 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm² / 20 … 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	3
Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical Data

Application	Control technology
Coding	B
Variable coding	Yes
Marking	1 2 3
Potential marking	1 2 3
Mating force of a plug-in connection	approx. 20 … 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 … 70 N (depending on pole number)

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Number of mating cycles	200, without resistive load
Protection type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All *WINSTA*® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	locking lever
Note on locking system	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).

Material data

Note (material data)	Information on material specifications can be found here
Color	pink
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.178 MJ
Weight	8.5 g

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Environmental requirements

Processing temperature	-5 … +40 °C
Continuous operating temperature	-35 … +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821451129
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104
	CCA DEKRA Certification B.V.	EN 61984	2173495.01
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

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Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1868589-PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

	Item no.770-1613 T-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; pink	www.wago.com/770-1613
	Item no.770-1663 h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; pink	www.wago.com/770-1663
	Item no.770-1716 3-way distribution connector; 3-pole; Cod. B; 1 input; 3 outputs; pink	www.wago.com/770-1716
	Item no.770-1713 T-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; pink	www.wago.com/770-1713

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	Item no.770-1763 h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; pink	www.wago.com/770-1763
	Item no.770-293 Plug; 3-pole; Cod. B; 4,00 mm²; pink	www.wago.com/770-293
	Item no.770-793 Snap-in plug; 3-pole; Cod. B; 4,00 mm²; pink	www.wago.com/770-793
	Item no.770-893/011-000 Plug for PCBs; angled; 3-pole; Cod. B; pink	www.wago.com/770-893/011-000
	Item no.770-893 Plug for PCBs; straight; 3-pole; Cod. B; pink	www.wago.com/770-893
	Item no.771-9993/005-107 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm²; pink	www.wago.com/771-9993/005-107
	Item no.771-9993/205-107 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm²; pink	www.wago.com/771-9993/205-107

Required accessories

Locking levers

Locking system

	Item no.: 770-121 Locking lever; for flying leads; for manual operation; white	www.wago.com/770-121
	Item no.: 770-131 Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131
	Item no.: 770-101 Locking lever; for flying leads; for manual operation; black	www.wago.com/770-101
	Item no.: 770-111 Locking lever; for flying leads; for tool operation; black	www.wago.com/770-111

Optional accessories

Strain relief

Strain relief housing

	Item no.: 770-503 Strain relief housing; 3-pole; for 2 cables; 8.0 … 11.5 mm; 55 mm; black	www.wago.com/770-503

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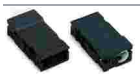
Item no.: 770-503/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 … 8.0 mm; 55 mm; black
www.wago.com/770-503/023-000



Item no.: 770-503/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 … 13.0 mm; 71 mm; black
www.wago.com/770-503/021-000

Item no.: 770-503/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 … 11.5 mm; 48 mm; black
www.wago.com/770-503/035-000

Item no.: 770-503/038-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 … 11.5 mm; 48 mm; black
www.wago.com/770-503/038-000

Item no.: 770-503/032-000
Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 … 11.5 mm; 55 mm; black
www.wago.com/770-503/032-000

Item no.: 770-513/038-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 … 11.5 mm; 48 mm; white
www.wago.com/770-513/038-000

Item no.: 770-513
Strain relief housing; 3-pole; for 2 cables; 8.0 … 11.5 mm; 55 mm; white
www.wago.com/770-513

Item no.: 770-513/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 … 13.0 mm; 71 mm; white
www.wago.com/770-513/021-000

Item no.: 770-513/032-000
Strain relief housing; 3-pole; for 2 cables; 8.0 … 11.5 mm; 55 mm; white
www.wago.com/770-513/032-000

Item no.: 770-513/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 … 11.5 mm; 48 mm; white
www.wago.com/770-513/035-000

Item no.: 770-513/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 … 8.0 mm; 55 mm; white
www.wago.com/770-513/023-000

Tool

Operating tool

Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft
www.wago.com/210-719

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

www.wago.com/770-383

Cover

Cover

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

www.wago.com/770-201

Item no.: 770-221
Lockout cap; 12-pole, separable; for sockets; Plastic; white

www.wago.com/770-221

Mounting

Mounting accessories

Item no.: 770-318
Snap-in frame; 3-pole; 1.0 … 3.0 mm; black

www.wago.com/770-318

Item no.: 770-338
Snap-in frame; 3-pole; 1.0 … 3.0 mm; white

www.wago.com/770-338

Marking accessories

Marker

Item no.: 770-450/000-002
Marker card; Plastic; yellow

www.wago.com/770-450/000-002

Item no.: 770-450/000-001
Marker card; Plastic; green

www.wago.com/770-450/000-001

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

www.wago.com/770-450/000-005

Item no.: 770-450
Marker card; Plastic; white

www.wago.com/770-450

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

www.wago.com/770-450/000-006

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

www.wago.com/770-450/000-012

Downloads

Documentation

Subject to changes. Please also observe the further product documentation!

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Bid Text

770-283 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-283 doc - Datei	2015 Jun 8	doc 24.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-283	URL	Download

CAE data

WSCAD Universe 770-283	URL	Download
ZUKEN Portal 770-283	URL	Download

Asset Administration Shell

Asset Administration Shell 770-283	URL	Download

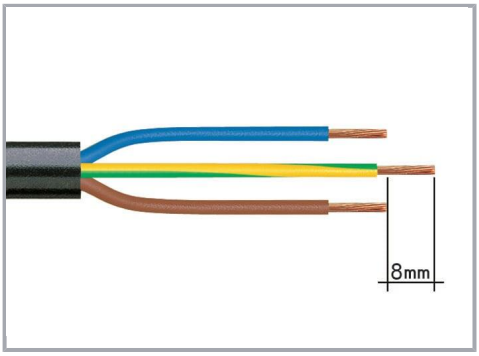
Environmental Product Compliance

Compliance Search

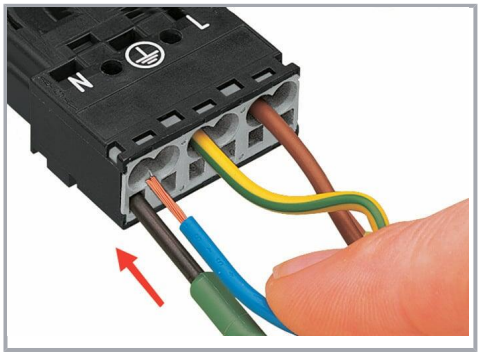
Environmental Product Compliance 770-283 Socket; 3-pole; Cod. B; 4,00 mm²; pink	URL	Download

Installation Notes

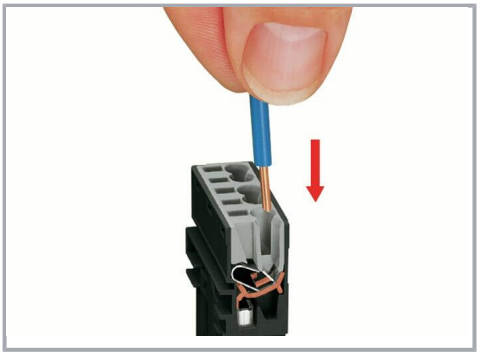
Conductor termination



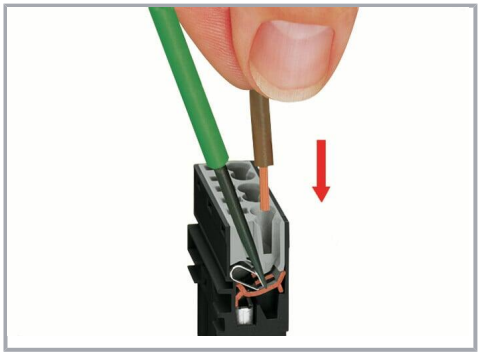
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

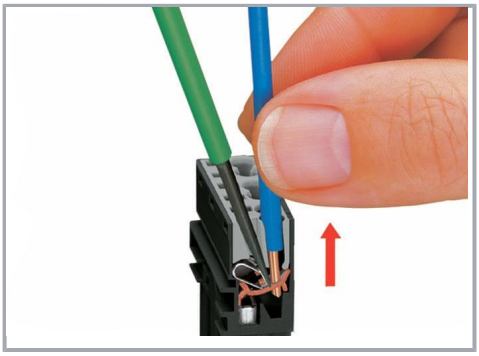


Insert the stripped solid conductor until it hits the backstop.



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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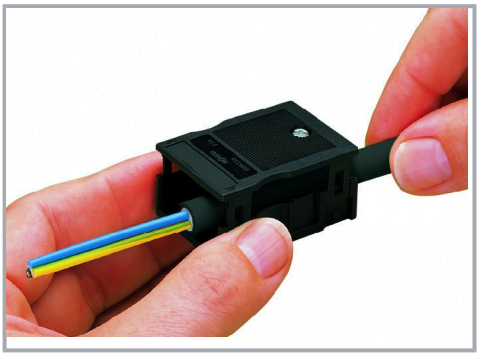
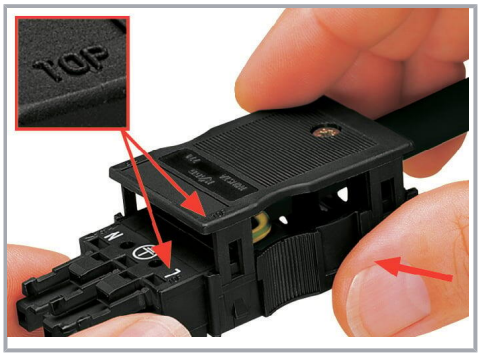
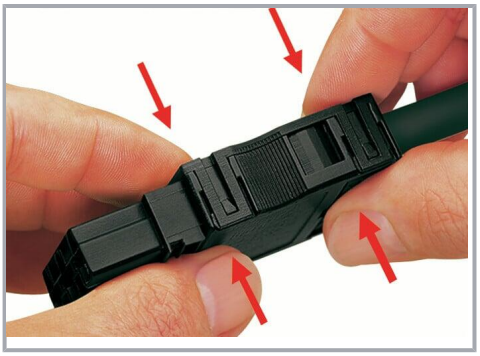
Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



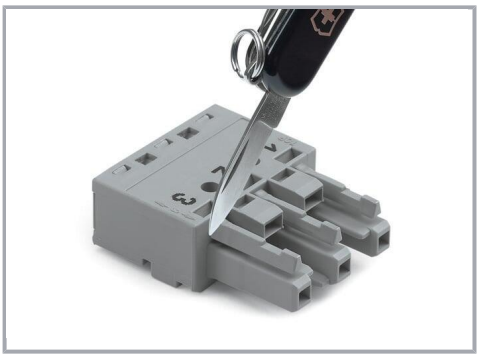
Latch the strain relief housing onto the plug /socket. Note the “TOP” inscription.



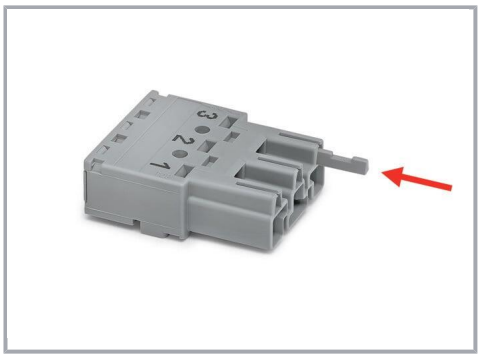
Prepare strain relief housing by snapping together upper and bottom part.

Tighten strain relief screw with screwdriver (2.5 mm blade width).

Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

Mismating protection

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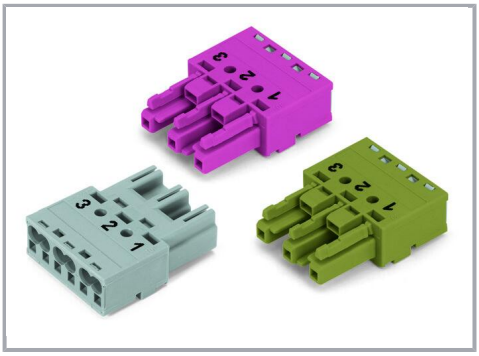
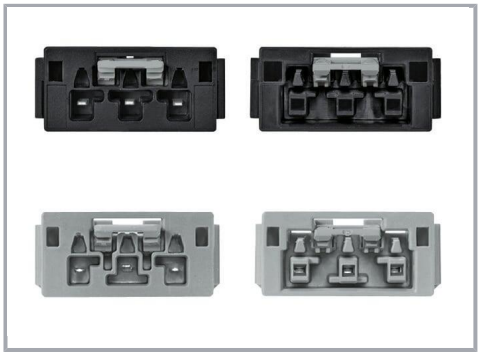


B-coded connectors with different colors can be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

Important note:
Different colors and/or pole markings are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.

Easy circuit identification via different marking and colors

Product family

WINSTA® MIDI
Show all products from the family

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