WAGO Accessories and WAGO Tools

WAGO Accessories and WAGO Tools

14

Shield Connection System
790 Series
Installation

Carrier with grounding foot* (790-113),
45 mm long, busbar 90° to the rail

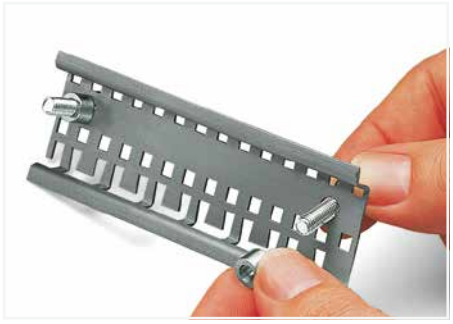
*for all shield clamping saddle sizes

Carrier with grounding foot* (790-114),
45 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes

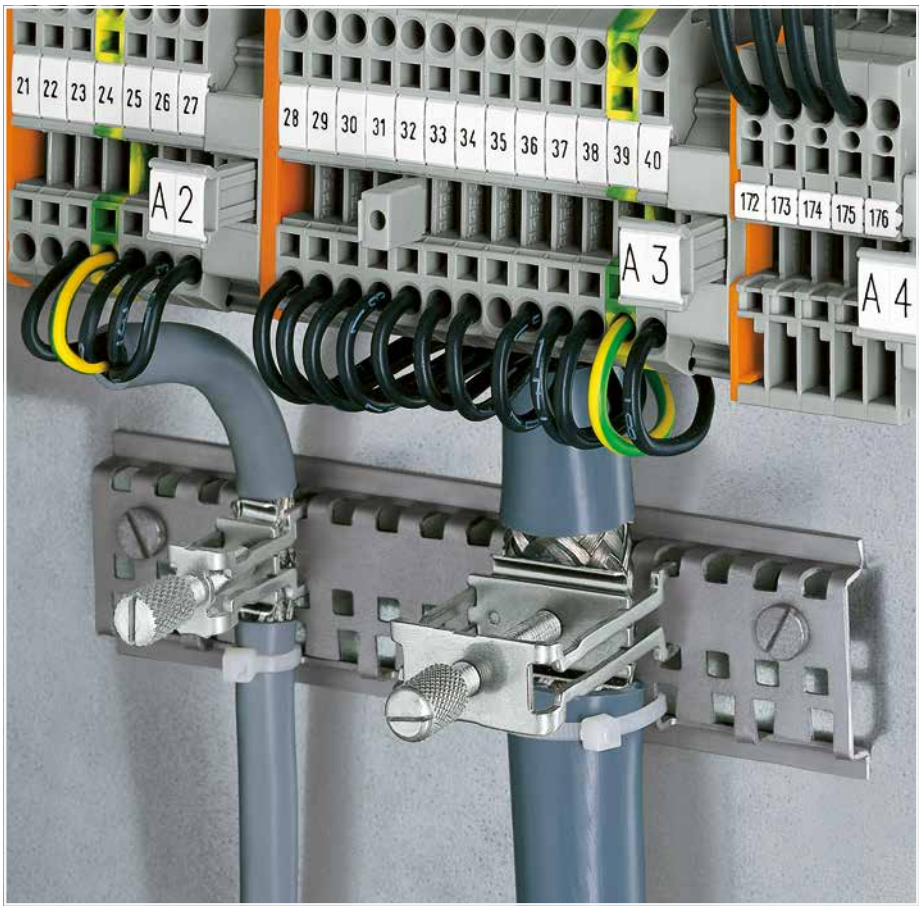
Carrier with grounding foot* (790-115),
125 mm long, busbar parallel to the rail

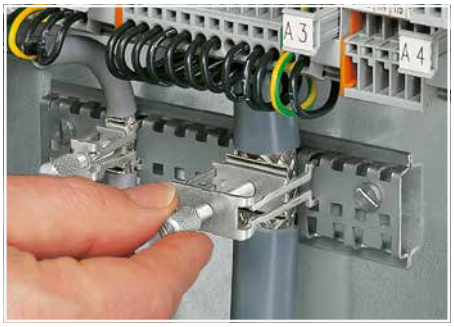
*for all shield clamping saddle sizes



Securing a spacer sleeve to a specialty slotted DIN-rail.

Securing an additional shield clamping saddle.





Tightening/removing a shield clamping saddle.

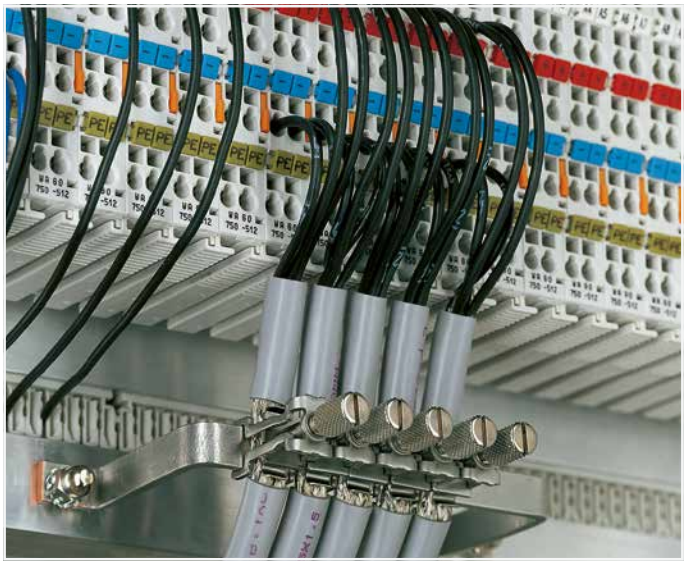
After connection, tighten the knurled screw to complete the installation.
Recommended tightening torque: 0.5 Nm

To remove the clamping saddle, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.

Shield Connection System
790 Series
Installation

Carrier with grounding foot – busbar parallel to the rail

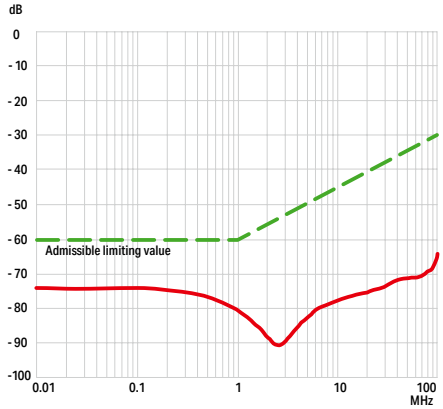
Insulated mounting carriers for a common shield reference potential, independent of housing potential



U-shaped (10 x 3) mm copper busbar

Snap shield clamping saddles into any metal plate (max. thickness: 3 mm).

Negative Shield Attenuation

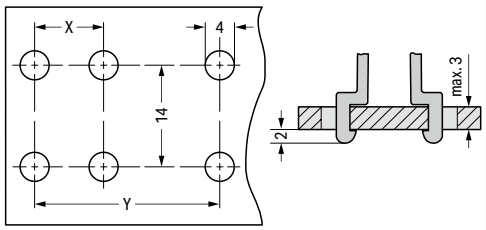


The shield connection system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable.

Hole Dimensions for Panel Mounting

Shield (screen) clamping saddle size

Distance	X
11 mm	9.5 mm
Distance	Y
19 mm	17.5 mm
27 mm	25.5 mm
43 mm	41.5 mm

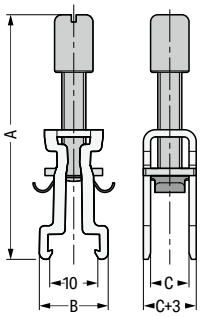


Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The spring element integrated in the shield clamping saddle compensates for deformation and settling that results from a connected shield.

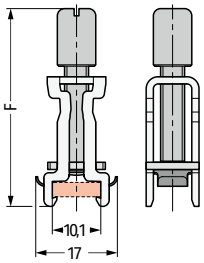
Shield Clamping Saddles
790 Series



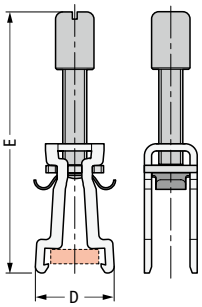
Installation position (delivery state)



Closed position



Removal position



Dimensions in mm

Item No.	A	B	C	D	E	F
790-108	51	15	8	16	55	42
790-116	53	15	16	16	57	45
790-124	78	15	24	16	83	58
790-140	97	15	40	16	100	73

Shield clamping saddle; 11 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-108	50 (10)

Shield clamping saddle; 19 mm wide; Connectable shield diameter: 7 … 16 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-116	50 (10)

Shield clamping saddle; 27 mm wide; Connectable shield diameter: 6 … 24 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-124	50 (10)

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)

790-110 25

Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)

790-112 25

Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)

790-113 25

Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)

790-114 25

Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm

790-115 25

DIN-rail; specialty slotted; 1000 mm long; tin-plated

790-145

Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;

790-144 200 (100)

Insulated mounting foot; for busbar with M4 x 8 mm screw

790-100 50 (25)

Insulated mounting foot; for busbar with (3.5 x 9) mm sheet metal screw

790-101 50 (25)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

210-133 1

Busbar; tin-plated; 30 mm long; copper (10 x 3) mm

790-133 20

Busbar; tin-plated; 50 mm long; copper (10 x 3) mm

790-134 20

U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules

790-190 25 (5)

U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules

790-191 25

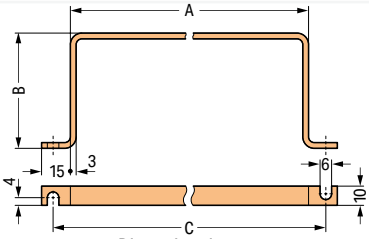
U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules

790-192 25

U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules

790-193 25

14



Dimensions in mm

Item No.	A	B	C	Item No.	A	B	C
for I/O module series 750 (5 E/A)							
790-190	63	60	83	**790-192**	63	35	83
for I/O module series 750 (8 E/A)							
790-191	100	60	118	**790-193**	100	35	118

Shield clamping saddle; 43 mm wide; Connectable shield diameter: 22 … 40 mm
Note: Cannot be used for connecting ground conductors!

	Item No.	Pack. Unit
	790-140	50 (10)

Carrier with grounding foot* (790-114), 45 mm long, busbar parallel to the rail

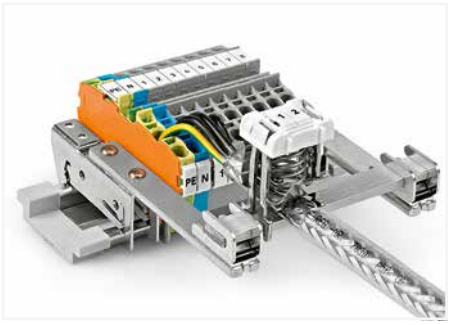
*for all shield clamping saddle sizes

Carrier with grounding foot* (790-115), 125 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes

Spring-Equipped Shield Clamping Saddles
790 Series
Installation

Shield clamping saddles are available in three different sizes for shield diameters ranging from 3 to 20 mm.



Application example

Compress the clamping saddle until fully engaged.

Mounting a clamping saddle on a specialty slotted DIN-rail (790-145).
When releasing the saddle, do not place your finger under the clamping spring!

Removing the shield clamping saddle.

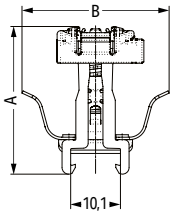
Shield clamping saddle contacts shield conductor and specialty slotted DIN-rail (790-145).

Labeling using a marking strip.

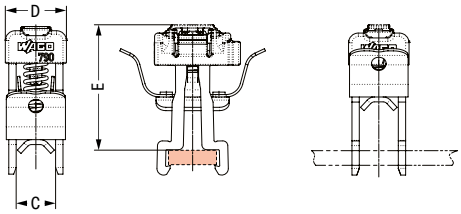
Labelling using WMB markers.

Spring-Equipped Shield Clamping Saddles
790 Series

Delivery position



Mounting position



Dimensions in mm

Item No.	A	B	C	D	E*
790-208	30	29.9	8	12.4	25.8
790-216	34.6	28.3	16	21.8	30.2
790-220	45.6	28.3	24	30	41.2

*Height with WMB marker

Shield clamping saddle; 12.4 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-208	50

Shield clamping saddle; 21.8 mm wide; Connectable shield diameter: 6 … 16 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-216	25

Shield clamping saddle; 30 mm wide; Connectable shield diameter: 6 … 20 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-220	25

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)

790-110 25

Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)

790-112 25

Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)

790-113 25

Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)

790-114 25

Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm

790-115 25

DIN-rail; specialty slotted; 1000 mm long; tin-plated

790-145

Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;

790-144 200 (100)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

210-133 1

Busbar; tin-plated; 30 mm long; copper (10 x 3) mm

790-133 20

Busbar; tin-plated; 50 mm long; copper (10 x 3) mm

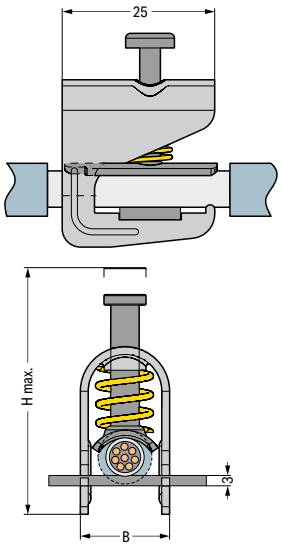
790-134 20

14

Shield Clamp and Shield Termination
791 and 709 Series

Insert the shield termination into the female plug using the operating tool.

Dimensions in mm



Fit the shield termination to the shield cable.

Shield clamp; Connectable shield diameter: 1.5 … 6.5 mm; Height (max.): 40 mm; 10 mm wide Note: Cannot be used for connecting ground conductors!		
	Item No.	Pack. Unit
	791-107	50

Shield clamp; Connectable shield diameter: 5 … 11 mm; Height (max.): 47 mm; 17 mm wide Note: Cannot be used for connecting ground conductors!		
	791-111	50

Shield clamp; Connectable shield diameter: 10 … 17 mm; Height (max.): 63 mm; 23 mm wide Note: Cannot be used for connecting ground conductors!		
	791-117	50

Shield clamp; Connectable shield diameter: 16 … 24 mm; Height (max.): 78 mm; 30 mm wide Note: Cannot be used for connecting ground conductors!		
	791-124	50

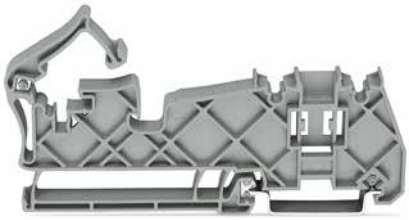
Shield termination; includes cable ties for 5 … 10 mm shield diameter; 60 mm long		
	Item No.	Pack. Unit
	709-350	100 (25)

Shield termination; includes cable ties for 5 … 10 mm shield diameter; 150 mm long		
	709-352	100 (25)

Secure both shield cable and shield termination to the strain relief plate using cable ties.

Shield termination connected to an X-COM® female plug

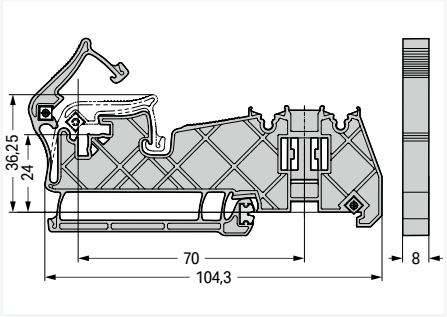
Busbar Carriers
790 Series



Dimensions in mm

Snapping the busbar carrier onto DIN-35 rail.

Vertical mounting position of the busbar

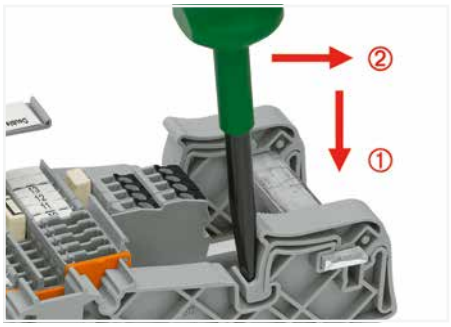


Busbar carrier; for (10 x 3) mm copper busbars; no contact to DIN-rail; insulated		
	Item No.	Pack. Unit
	790-400	20

Place the busbar in the carrier holder.

Horizontal mounting position of the busbar

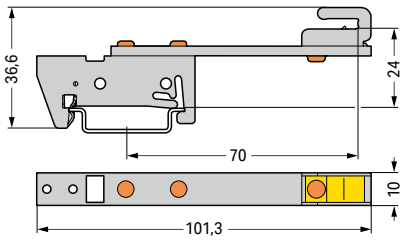
Snap the mounting bracket into position.



Release the mounting bracket by pushing the operating tool down ① and then forward ②.

Busbar Carriers
790 Series

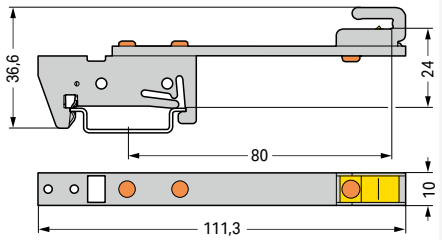
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-300	10

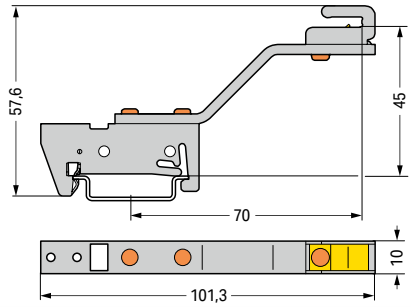
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 80 mm between center of DIN-rail and busbar carrier

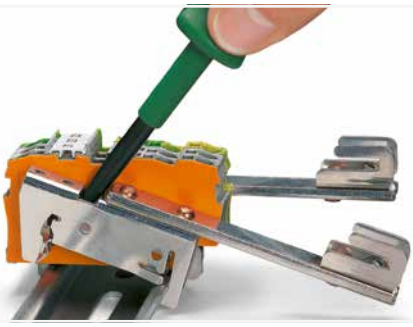
Item No.	Pack. Unit
790-302	10

Dimensions in mm

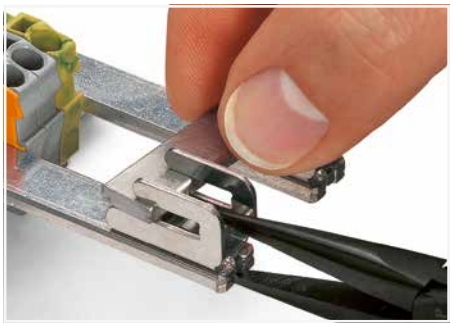


Busbar carrier; for (10 x 3) mm copper busbars; single side; angled; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-301	10



Remove the busbar carrier using an operating tool (type 3, 5.5 x 0.8 mm blade).

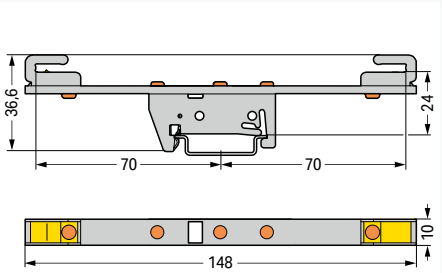


To remove the busbar, compress the spring using pliers.

Place the busbar in the busbar carrier.

Busbar Carriers
790 Series

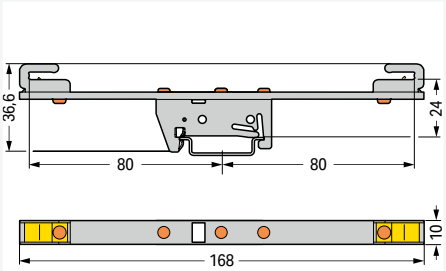
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-310	10

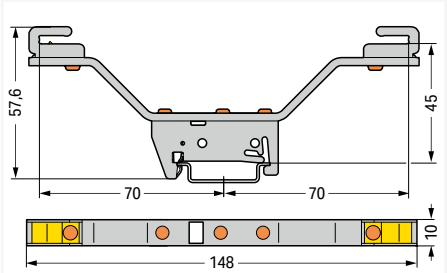
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 80 mm between center of DIN-rail and busbar carrier

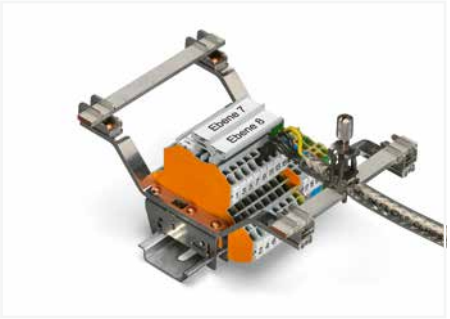
Item No.	Pack. Unit
790-312	10

Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; angled; 70 mm between center of DIN-rail and busbar carrier

Item No.	Pack. Unit
790-311	10



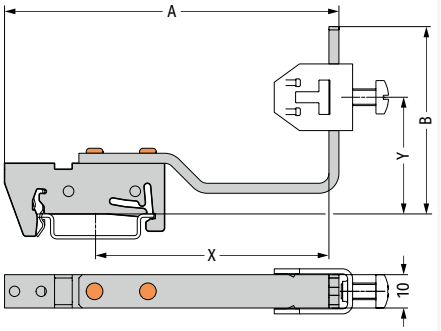
Application example

Busbar Carrier with a T-Connector (Flexible) and T-Connector
790 Series

Horizontal mounting position of the busbar

Dimensions in mm

	A	B	X	Y
790-350/790-398	100	56	70	15 ... 52
790-352/790-398	100	99	70	15 ... 92
790-360/790-398	115	56	85	15 ... 52
790-362/790-398	115	99	85	15 ... 92



Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 56 mm high

Item No.	Pack. Unit
790-350/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 99 mm high

Item No.	Pack. Unit
790-352/790-398	12

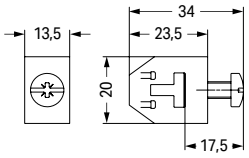
Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 56 mm high

Item No.	Pack. Unit
790-360/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 99 mm high

Item No.	Pack. Unit
790-362/790-398	12

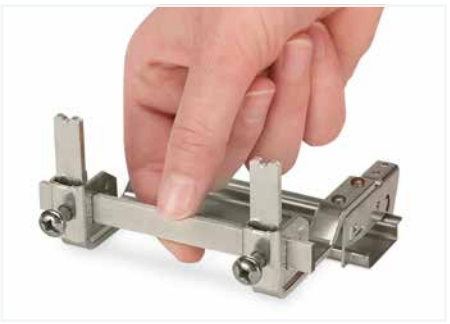
Dimensions in mm



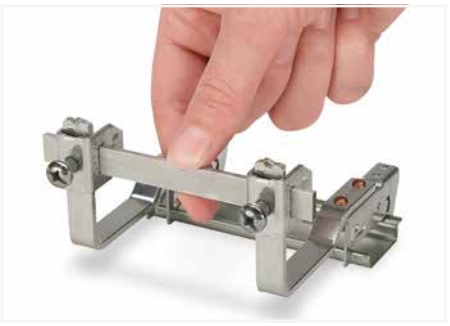
T-connector; connects two (10 x 3) mm copper busbars

Item No.	Pack. Unit
790-398	

Vertical mounting position of the busbar



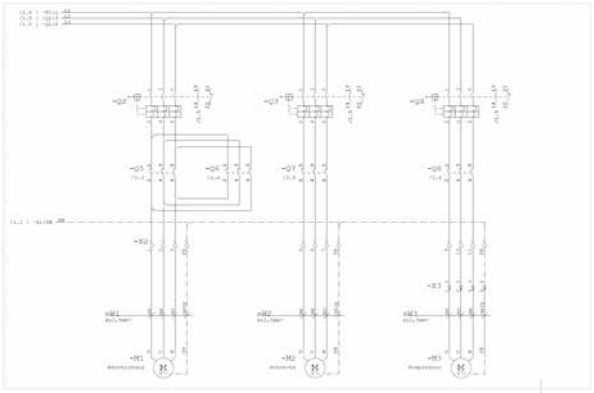
The height of the busbar can be adjusted.



Secure the busbar by tightening the screws at the required position.

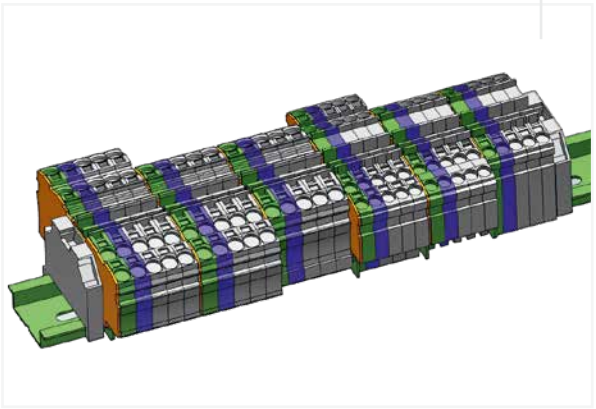
Smart Data
Supports Workflow from Control Cabinet Planning to Installation

Electrical Planning
Directly import data from a CAE circuit diagram into the Smart Designer engineering software or output marking data on Smart Printer



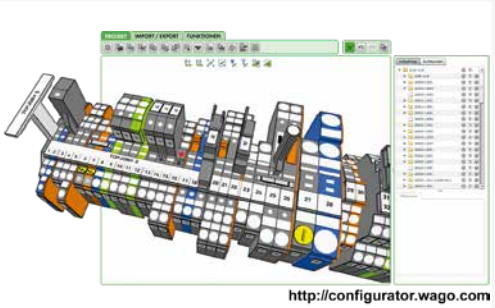
Technical and Commercial Item Data
Classified by ETIM and eCl@ss – also in Advanced Format

Mechanical Planning
CAD export into all standard CAD formats and in different granularities



14

Smart Designer
- Free online configuration and ordering software for all electrical interconnect and automation components
- No installation required
- Available worldwide – 24 hours a day
- Item data is always updated
- Auto-audit feature checks product compatibility via programed database
- Design in full 3-D

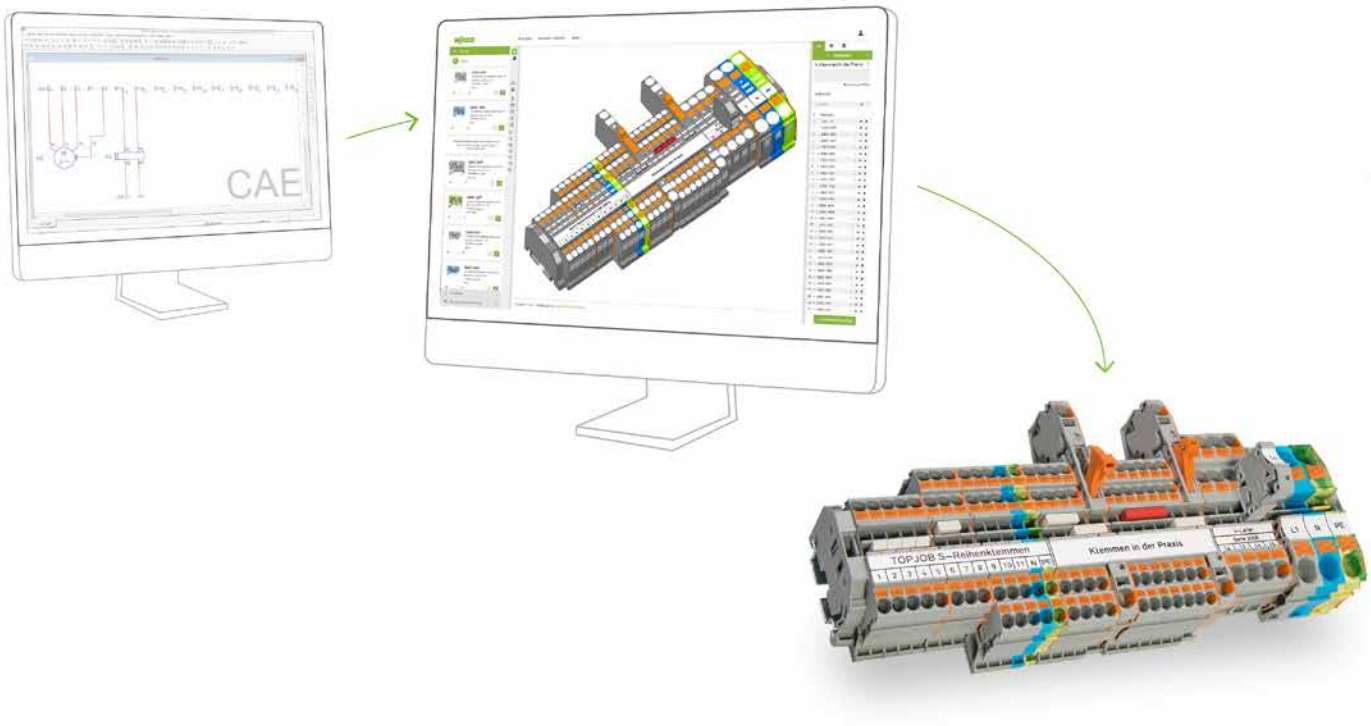


Smart Script
- XML-based software for all WAGO labeling materials
- Data import from CAE systems
- Font size check
- Material selection wizard

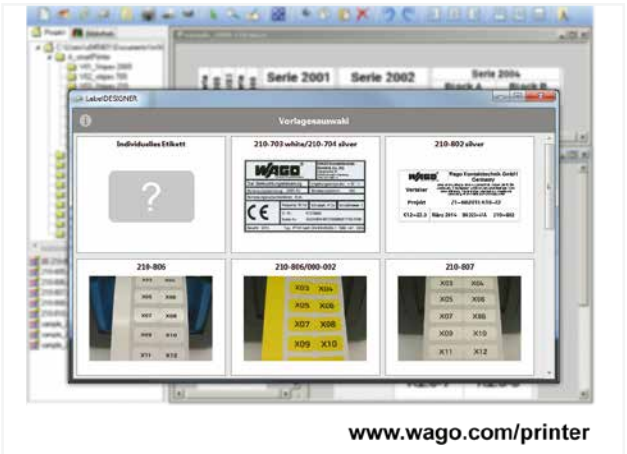
Configuration made easy – http://configurator.wago.com

Smart Printer

The Fastest Marking System

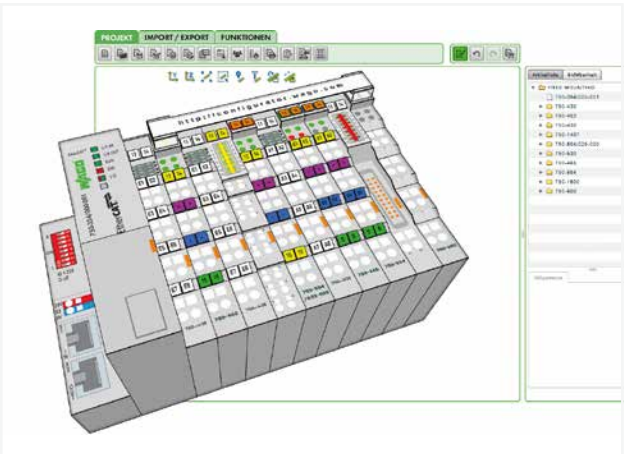


Smart Script



Smart Script
Import from CAE systems or create customized marking.

Smart Designer

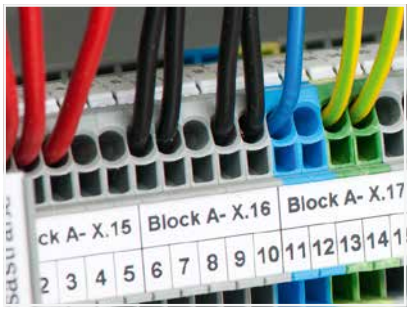


Smart Designer
After designing, print labeling materials directly from the project via Smart Printer

14

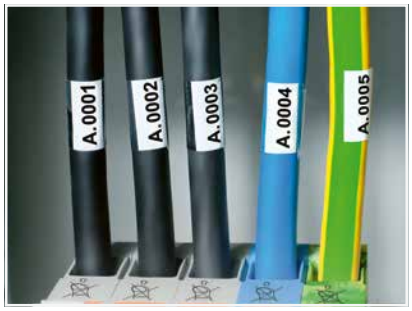
Smart Printer
- Compact and easy-to-use
- Quickly print and install marking strips
- Cost-effective marking from beginning to end

Terminal Block Marking



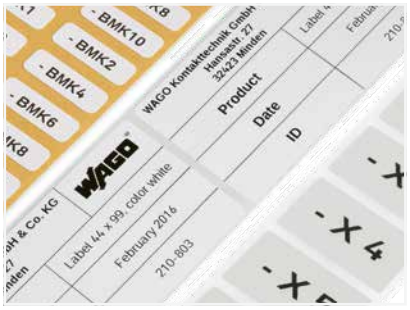
Multi-line marking strips for clear, detailed control cabinet labels
- WMB Inline markers on a reel are suitable for various terminal block sizes – just one marker size for all standard applications
- Same profile across all WAGO Rail-Mount Terminal Blocks TOPJOB® S ensures quick labeling

Cable and Conductor Marking



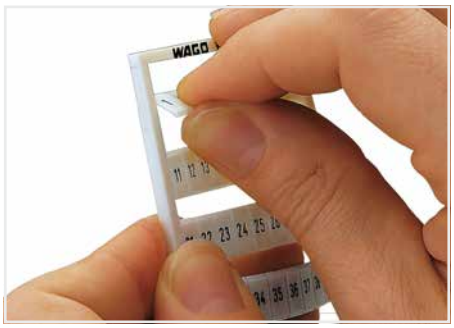
Different versions available:
- Marking sleeves, self-laminating labels, conductor markers for thread-on mounting or shrink tubes
- Large variety of marking surface sizes

Device Marking



Broad selection of label types (e.g., printable fabric), push-button markers and type plates optimizes marking for devices and control cabinets
- Labels and markers are available in a variety of colors and sizes

Marking Systems
Description and Installation

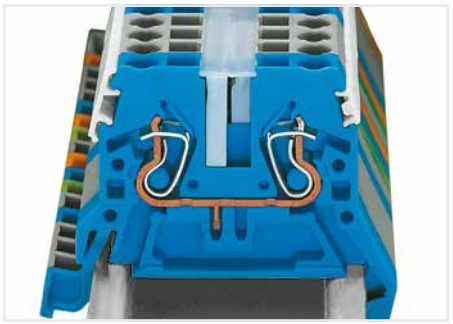


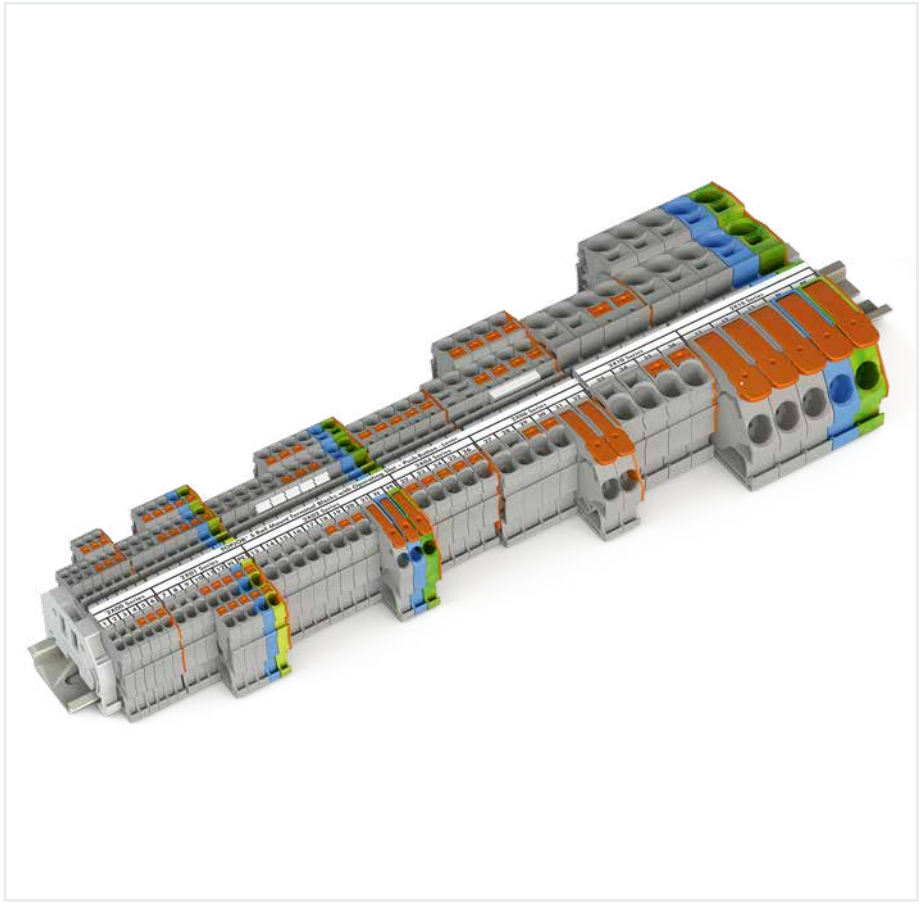
Separating a strip from the WMB or WMB marker card.


Stretching a WMB marker strip.

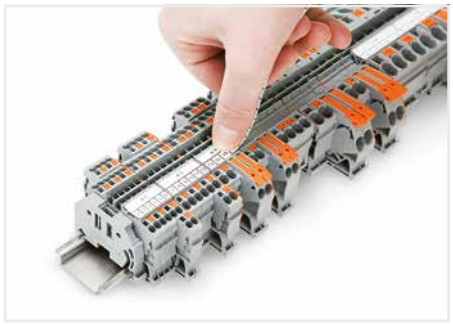

Separating an individual marker from the strip – for larger terminal blocks.

Marking via Mini-WSB Quick Marking System.


WMB markers in Mini-WSB marker slots
Translucent marking strip
Mini-WSB markers




Printing a marking strip (2009-110) via Smart Printer.

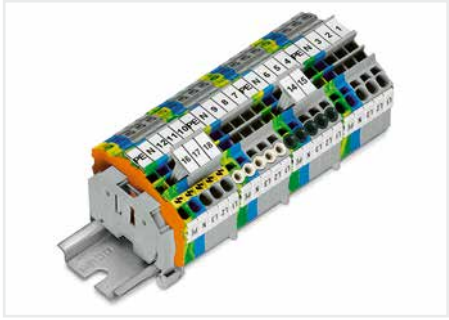

Snapping a marking strip into the marker slot.

Marking strip – multi-line printing

Snapping a marking strip into the marker slot.

Snapping a WMB marker strip into the marker slot of the double marker carrier.

WMB "decade" marking

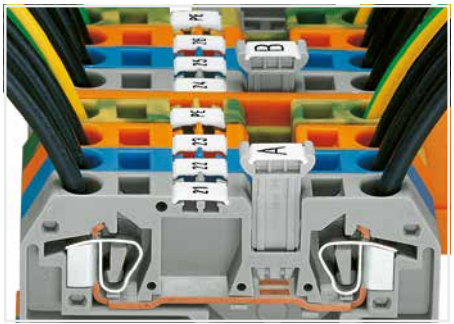


Group marker carriers for WAGO Rail-Mount Terminal Blocks TOPJOB® S – can be snapped into jumper slots.

Double- and triple-deck marker carriers can be retrofitted into the jumper contact slot of double- and triple-deck terminal blocks.

Height adjustable group marker carrier (2009-163) for marking strips (2009-110)

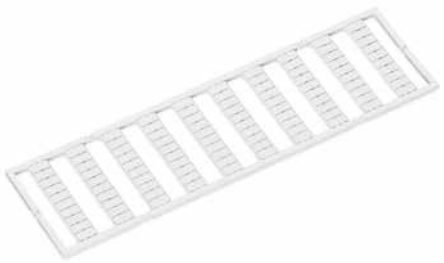
Height-adjustable group marker carrier



Additional group marking

Marking System

Terminal Block Width: 3.5 mm, 4 … 4.2 mm and from 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm
5 … 17.5 mm	270, 280, 780, 869, 870, 880	281 … 285, 781 … 785, 2002, 2004, 2005, 2006, 2007, 2010, 2016, 2022

WMB marker card; plain; 10 strips with 10 markers/card					
Color	5 mm Item No.	5 … 5.2 mm Item No.	4 … 4.2 mm Item No.	3.5 mm Item No.	Pack. Unit
white	793-501	793-5501	793-4501	793-3501	5
yellow	793-501/000-002	793-5501/000-002	793-4501/000-002		5
red	793-501/000-005	793-5501/000-005	793-4501/000-005		5
blue	793-501/000-006	793-5501/000-006	793-4501/000-006		5
gray	793-501/000-007	793-5501/000-007	793-4501/000-007		5
orange	793-501/000-012	793-5501/000-012	793-4501/000-012		5
light green	793-501/000-017	793-5501/000-017	793-4501/000-017		5
green	793-501/000-023	793-5501/000-023	793-4501/000-023		5
violet	793-501/000-024	793-5501/000-024	793-4501/000-024		5

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel		
Color	3.5 mm Item No.	Pack. Unit
white	2009-113	1

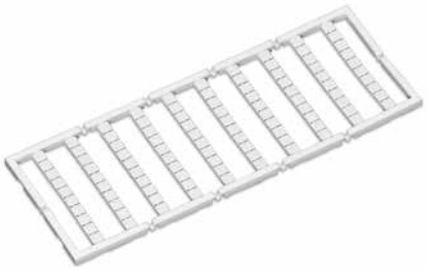
WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm		
Color	4 … 4.2 mm Item No.	Pack. Unit
white	2009-114	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	5 … 5.2 mm Item No.	Pack. Unit
white	2009-115	1

Use	
	Can be snapped onto the following terminal block series
	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2016, 2020, 2022

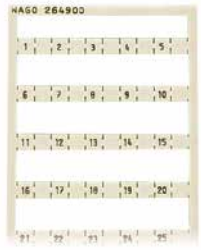
Marking strip; plain; 11 mm wide; 50 m reel		
Color	Item No.	Pack. Unit
white	2009-110	1

Mini-WSB Quick Marking System
Terminal Block Width: 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2006, 2007, 2010, 2016

Mini-WSB marker card; plain; 10 strips with 10 markers/card		
Color	Item No.	Pack. Unit
white	248-501	5
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5



Mini-WSB marker card; with marking; not stretchable; horizontal marking; snap-on type		
Marking	Item No.	Pack. Unit
1, , 2, , 3, , 4, , 5, ; to 46, , 47, , 48, , 49, , 50, ; (each 1x)	264-900	5
U, , V, , W, , N, , PE, ; (10x)	264-901	5
L1, , L2, , L3, , N, , PE, ; (10x)	264-902	5
1, , 1, , 1, , 1, , 1, ; (10x)	264-903	5
2, , 2, , 2, , 2, , 2, ; (10x)	264-904	5
3, , 3, , 3, , 3, , 3, ; (10x)	264-905	5

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2005, 2006, 2007, 2010, 2016

Mini-WSB Inline; plain; 1,700 markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	Item No.	Pack. Unit
white	2009-145	1

Marking Card; Self-Adhesive Marking Strips

- Strip length: 182 mm

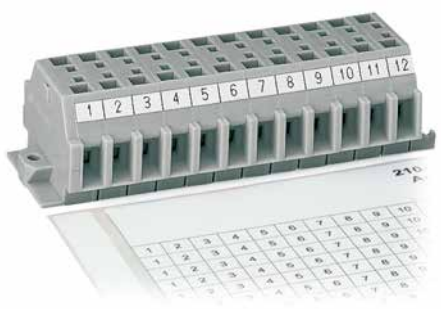
Marking strip; plain; as DIN A4 sheet		
	Item No.	Pack. Unit
◯ Strip height: 2.3 mm; 100 self-adhesive strips per card	210-331	100
◯ Strip height: 3 mm; 80 self-adhesive strips per card	210-332	100
◯ Strip height: 5 mm; 48 self-adhesive strips per card	210-334	100
◯ Strip height: 6 mm; 40 self-adhesive strips per card	210-333	100
◯ Strip height: 9 mm; 25 self-adhesive strips per card	210-335	100

- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (260 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 10 (120 x)	210-333/500-002	100
◯ 11 … 20 (120 x)	210-333/500-003	100
◯ 21 … 30 (120 x)	210-333/500-004	100
◯ 31 … 40 (120 x)	210-333/500-005	100
◯ 41 … 50 (120 x)	210-333/500-006	100
◯ 51 … 60 (120 x)	210-333/500-007	100
◯ 61 … 70 (120 x)	210-333/500-008	100
◯ 71 … 80 (120 x)	210-333/500-009	100
◯ 81 … 90 (120 x)	210-333/500-010	100
◯ 91 … 100 (120 x)	210-333/500-011	100
◯ 1 … 50 (20 x)	210-333/500-021	100
◯ L1 (1440 x)	210-333/500-074	100
◯ L2 (1440 x)	210-333/500-075	100
◯ L3 (1440 x)	210-333/500-076	100
◯ N (1440 x)	210-333/500-077	100
◯ PE (1440 x)	210-333/500-078	100
◯ PEN (1440 x)	210-333/500-079	100
◯ only grid spacing	210-333/500-001	100

Marking strip; for 4-conductor terminal strips (260 Series)		
◯ 1 … 10 (80 x)	210-333/800-002	100
◯ 11 … 20 (80 x)	210-333/800-003	100
◯ 21 … 30 (80 x)	210-333/800-004	100
◯ 31 … 40 (80 x)	210-333/800-005	100
◯ 41 … 50 (80 x)	210-333/800-006	100
◯ 51 … 60 (80 x)	210-333/800-007	100
◯ 61 … 70 (80 x)	210-333/800-008	100
◯ 71 … 80 (80 x)	210-333/800-009	100
◯ 81 … 90 (80 x)	210-333/800-010	100
◯ 91 … 100 (80 x)	210-333/800-011	100
◯ 1 … 40 (20 x)	210-333/800-209	100
◯ L1 (880 x)	210-333/800-074	100
◯ L2 (880 x)	210-333/800-075	100
◯ L3 (880 x)	210-333/800-076	100
◯ N (880 x)	210-333/800-077	100
◯ PE (880 x)	210-333/800-078	100
◯ PEN (880 x)	210-333/800-079	100
◯ only grid spacing	210-333/800-001	100

Marking Card; Self-Adhesive Marking Strips

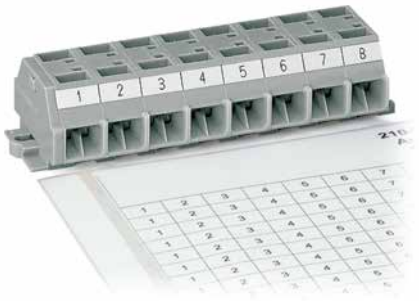


- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (261 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 12 (80 x)	210-333/600-103	100
◯ 13 … 24 (80 x)	210-333/600-104	100
◯ 25 … 36 (80 x)	210-333/600-105	100
◯ 37 … 48 (80 x)	210-333/600-106	100
◯ 41 … 50 (80 x)	210-333/600-006	100
◯ 51 … 60 (80 x)	210-333/600-007	100
◯ 61 … 70 (80 x)	210-333/600-008	100
◯ 71 … 80 (80 x)	210-333/600-009	100
◯ 81 … 90 (80 x)	210-333/600-010	100
◯ 91 … 100 (80 x)	210-333/600-011	100
◯ 1 … 50 (20 x)	210-333/600-021	100
◯ L1 (1200 x)	210-333/600-074	100
◯ L2 (1200 x)	210-333/600-075	100
◯ L3 (1200 x)	210-333/600-076	100
◯ N (1200 x)	210-333/600-077	100
◯ PE (1200 x)	210-333/600-078	100
◯ PEN (1200 x)	210-333/600-079	100
◯ only grid spacing	210-333/600-001	100

Marking strip; for 4-conductor terminal strips (261 Series)		
◯ 1 … 16 (40 x)	210-333/1000-202	100
◯ 17 … 32 (40 x)	210-333/1000-204	100
◯ 33 … 48 (40 x)	210-333/1000-206	100
◯ 49 … 64 (40 x)	210-333/1000-110	100
◯ 65 … 80 (40 x)	210-333/1000-111	100
◯ 81 … 96 (40 x)	210-333/1000-112	100
◯ 97 … 112 (40 x)	210-333/1000-113	100
◯ 1 … 36 (20 x)	210-333/1000-208	100
◯ L1 (720 x)	210-333/1000-074	100
◯ L2 (720 x)	210-333/1000-075	100
◯ L3 (720 x)	210-333/1000-076	100
◯ N (720 x)	210-333/1000-077	100
◯ PE (720 x)	210-333/1000-078	100
◯ PEN (720 x)	210-333/1000-079	100
◯ only grid spacing	210-333/1000-001	100

Marking Card; Self-Adhesive Marking Strips



- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (262 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 20 (40 x)	210-333/700-020	100
◯ 21 … 40 (40 x)	210-333/700-108	100
◯ 41 … 60 (40 x)	210-333/700-109	100
◯ 1 … 50 (20 x)	210-333/700-021	100
◯ L1 (1040 x)	210-333/700-074	100
◯ L2 (1040 x)	210-333/700-075	100
◯ L3 (1040 x)	210-333/700-076	100
◯ N (1040 x)	210-333/700-077	100
◯ PE (1040 x)	210-333/700-078	100
◯ PEN (1040 x)	210-333/700-079	100
◯ only grid spacing	210-333/700-001	100

Marking strip; for 4-conductor terminal strips (262 Series)		
◯ 1 … 12 (40 x)	210-333/1200-103	100
◯ 13 … 24 (40 x)	210-333/1200-104	100
◯ 25 … 36 (40 x)	210-333/1200-105	100
◯ 37 … 48 (40 x)	210-333/1200-106	100
◯ 49 … 60 (40 x)	210-333/1200-107	100
◯ 1 … 24 (20 x)	210-333/1200-203	100
◯ L1 (600 x)	210-333/1200-074	100
◯ L2 (600 x)	210-333/1200-075	100
◯ L3 (600 x)	210-333/1200-076	100
◯ N (600 x)	210-333/1200-077	100
◯ PE (600 x)	210-333/1200-078	100
◯ PEN (600 x)	210-333/1200-079	100
◯ only grid spacing	210-333/1200-001	100

Group Marker Carrier and Marker Carrier
TOPJOB® S

2009-193 Group Marker Carrier (equipped with marking strips) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks.
Do not use on an end plate!

Group marker carrier; snap-on type for jumper slot; gray		
	Item No.	Pack. Unit
◯ 5 mm wide	2009-191	50 (25)
◯ 10 mm wide	2009-192	50 (25)
◯ 15 mm wide	2009-193	50 (25)

Marker carrier; for lateral marker slots; 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2009-198	200 (25)

Group marker carrier; snap-on type for jumper slot; gray		
◯ 10 mm wide	2009-196	50 (25)

Using marker carriers for marking strips (2002-161) in jumper slots.

Marker carrier; for jumper slots of double-deck, double-disconnect terminal blocks (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2002-160	50 (25)

Marker carrier; for jumper slots (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	2002-161	100 (25)

Using marker carriers for marking strips (2009-198) in lateral marker slots.

Multilevel Marker Carrier
TOPJOB® S

Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2000-121	50 (25)

Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2002-121	50 (25)

Triple-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	2002-131	50 (25)

Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

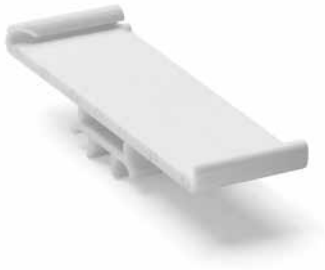
Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for terminal block width 4 … 6 mm; for up to 3 WMB markers or 8 branch markers; 15 mm wide

Color	Item No.	Pack. Unit
gray	**209-140**	50 (25)

Group marker carrier; snaps onto screwless 249-116 and 249-117 End Stops (center or side mounting); 10 mm wide

Color	Item No.	Pack. Unit
white	**209-112**	50 (25)



Group marker carrier; for WMB and Mini-WSB marker slots; 10 mm wide

Color	Item No.	Pack. Unit
white	**209-145**	100 (25)

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 2 WMB markers or 5 branch markers; 10 mm wide

gray	**209-141**	50 (25)

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 1 WMB markers or 2 branch markers; 5 mm wide

gray	**209-142**	50 (25)

Accessories; item-specific

Marker; from white cardboard; for self-marking; 100 markers/sheet

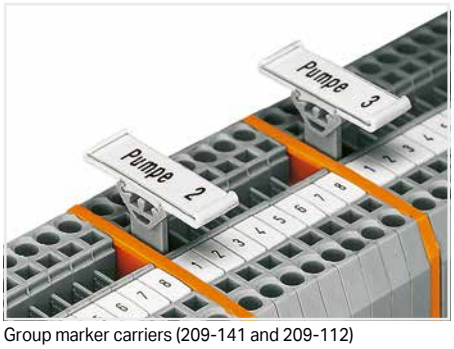
white	**209-113**	1

Selbstklebeschild; zum Selbstbeschriften; 7 x 25 Stück/ Bogen

white	**210-345**	1

Schutzstreifen

transparent	**209-114**	50

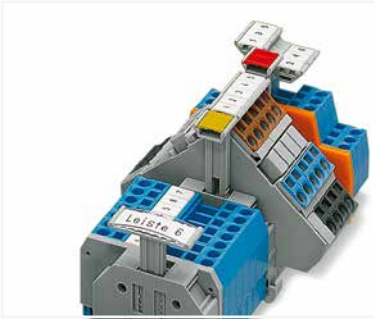


Group marker carriers (209-141 and 209-112)

Group marking on N-busbar carrier used as an end stop

Group marker carrier (209-145)

Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System



Receptacles for:
1 x marker
2 x WMB Multi marker or
1 x WFB continuous marking strip

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 1 marker or self-adhesive marker and transparent protection cover; 10 mm wide		
Color	Item No.	Pack. Unit
gray	249-119	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 2 WMB markers or 1 continuous strip; 10 mm wide		
gray	249-118	100 (25)

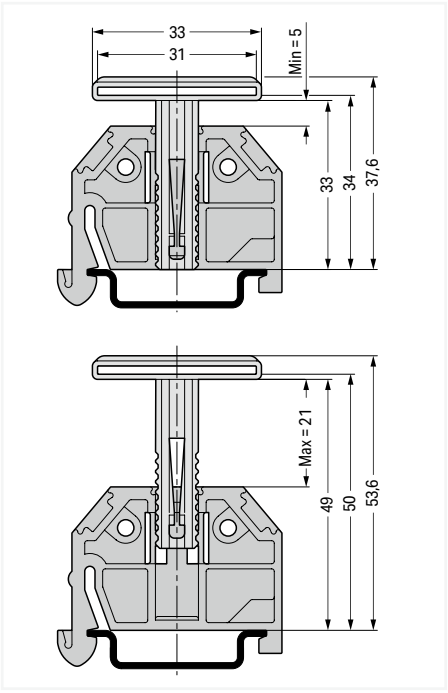
Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 42.2 to 58.2 mm; with marking surface; 6 mm wide		
white	249-120	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 45 to 61 mm; for 9 WMB markers or 1 marking strip TOPJOB® S; 12.2 mm wide		
gray	2009-163	50 (25)

Carrier-through element; height-adjustable; snaps onto end stops (249-116 and 249-117)		
Color	Item No.	Pack. Unit
gray	709-118	50 (25)

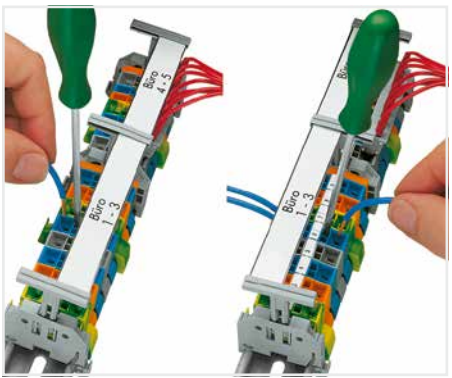
Carrier-end element; height-adjustable; snaps onto end stops (249-116 and 249-117)		
gray	709-119	50 (25)

Accessories; item-specific			
Marking strip receptacle; folded; 1 m long; 16 mm wide; 1.7 mm thick			
	transparent	709-120	1
Marking card; with 14 marking strips; DIN A4			
		709-193	1



Dimensions in mm

Height adjustable group marker carrier (2009-163) for marking strips (2009-110)



This laterally movable marking system can be used as an additional group marker carrier or continuous marking strip carrier for terminal strips or single-deck rail-mount terminal blocks, e.g., for:

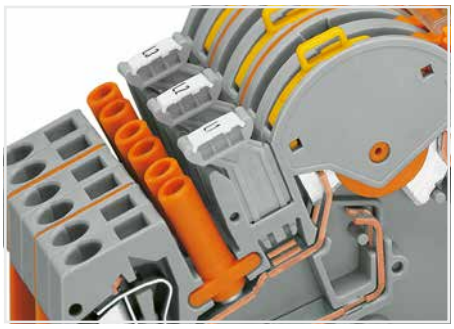
- DIN-35 rail-mount terminal strips (264 Series)
- Single-deck rail-mount terminal blocks (279 to 284 Series) with a maximum height of 49 mm (1.93 inch) from upper-edge of DIN-rail (please observe conductor radius)

Group Marker Carrier and Double Marker Carrier

Group marker carrier; angled; e.g., for transformer terminal blocks (282 Series)		
Color	Item No.	Pack. Unit
gray	209-144	50 (25)

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide		
Color	Item No.	Pack. Unit
gray	209-128	200 (100)

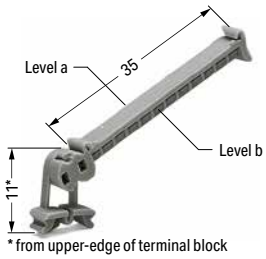
Group marker carrier; straight; e.g., for 2- and 3-conductor terminal blocks (282 Series)		
gray	209-143	50 (25)



This group marker carrier (209-144) makes it possible to mark subgroups in confined places. They can be snapped into unused jumper contact slots of the terminal block housing. Labeling is performed via WMB Multi markers.

Snapping a WMB marker strip into the marker slot of the double marker carrier.

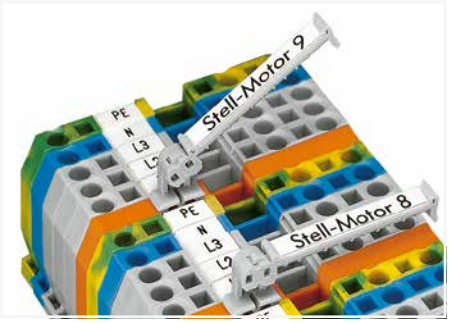
Group Marker Carrier (Pivoting)



* from upper-edge of terminal block

Pivoting group marker carrier		
Color	Item No.	Pack. Unit
gray	249-105	50 (25)

Zubehör; artikelspezifisch			
Marker; 4 x 30 markers/sheet			
	white	209-183	1
Protective marker cover			
	transparent	209-184	50



This pivoting group marker carrier has been developed for group marking of rail-mount terminal blocks and incorporates many customer requirements.

- Can be used in all multiprofile marker slots for rail-mount terminal bocks from 5 mm (0.197 inch) on or in spacer housings as shown above.
- Pivotable in seven different stable positions, providing the best visual angle in case of difficult mounting conditions

Thermal Transfer Printer
Smart Printer


Open the printer.


Printer – open

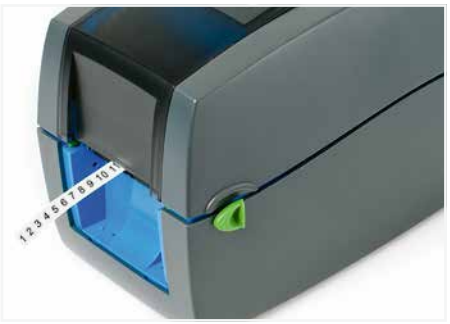

Accessories for unwinding material


Insert the ink ribbon.


Prepare the marking material.


Insert and secure the appropriate roller into the printer.


Printer has several interfaces:
USB, ETHERNET, serial COM port


Fast, cost-effective and easy to use –
printing WMB Inline markers via Smart Printer

Thermal Transfer Printer and Cutter
Smart Printer

Smart Printer; WMB Inline markers; Marking strips; Conductor markers and labels; Resolution: 300 dpi

Item No.	Pack. Unit
258-5000	1

Smart Printer
includes:
- Power supply and cable
- USB cable
- 1 x marking strip reel (2009-110)
- 1 x WMB Inline marker reel (2009-115)
- 2 x roller (258-5006 + 258-5007)
- 1 x reel holder
- 1 x ink ribbon (258-5005)

Technical Data	
Printing method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	127 mm/s (WAGO recommends 50.8 mm/s)
Print width (max.)	47 mm
Print length (max.)	762 mm
Print resolution	300 dpi (12 pixels/mm)
See-through/reflective sensor	Yes, centrally mounted
Operating display	Color TFT LCD with navigation button
Memory	8 MB Flash, 16 MB SDRAM
Interfaces	USB, RS-232, ETHERNET 10/100 Mbps, USB Host
Operating voltage	100 … 240 VAC, 50 … 60 Hz (automatic adjustment)
Dimensions (mm) W x H x D	135 x 175 x 245
Weight	2000 g (without printing material)
Operating temperature	5 … 40 °C (41 … 104 °F)
Storage temperature	−20 … 50 °C (−4 … 122 °F)
Safety approvals	CE (EMC)
Ink ribbon (see also Full Line Catalog, Volume 6, Marking)	External roll diameter: 40 mm; Internal core diameter: 12.7 mm (0.5 inch); Max. length: 110 m; Max. width: 58 mm

Cutter for Smart Printer; for marking strips only; not suitable for WMB Inline markers

Item No.	Pack. Unit
258-5030	1

Hardware requirements:
- Printer model: Smart Printer
- From manufacturing month/year: 0814 – August 2014
- Firmware version: 1.UW7i
- Printer driver: Version 7.4.2

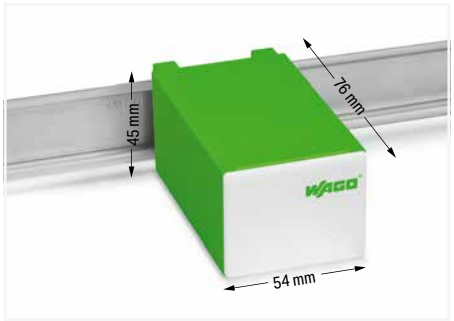
Software requirements:
- Smart Script: Version 3.88.9.0 or higher
- WAGO printer settings: Version 2.4.0.0 or higher

Approved print material to be cut:
- Marking strips: 2009-110, 709-177, 709-178, 757-901/000-005
- Self-adhesive marking strips: 210-702, 210-870 … -877
- Cable tie markers: 211-835 … -836, 211-836/000-002
- Self-laminating labels: 211-855 … -857
- Conductor markers for thread-on mounting: 211-861 … -863
- Type labels: 210-801 … -804, 210-812
- Continuous labels: 210-831 … -834
- Label for circuit identification: 210-813

Dimensions of printing materials:
- Width (max.): 46 mm
- Thickness (max.): 250 µm

Technical Data	
Width	60 mm
Height	107 mm
Depth	131 mm
Weight	1050 g

Control Cabinet Outlet and Switch Cabinet Drawer
709 Series



Technical Data		
Ratings per	DIN VDE 0620-1	
Voltage type	AC	
Rated voltage	250 V	
Rated surge voltage	2 kV	
Rated current	16 A	

Connection Data	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Type 2 (3.5 x 0.5) mm blade
Actuation direction	Operation parallel to conductor entry
Connectable conductor materials	Copper
Solid conductor	0.2 … 2.5 mm / 24 … 14 AWG
Stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Fine-stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Number of poles	3

Mechanical Data	
Mounting type	DIN-35 rail
Protection type	IP20
Potential marking	L PE N

Material Data	
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Sn

Environmental Requirements	
Continuous operating temperature from	–35 °C
Continuous operating temperature up to	85 °C

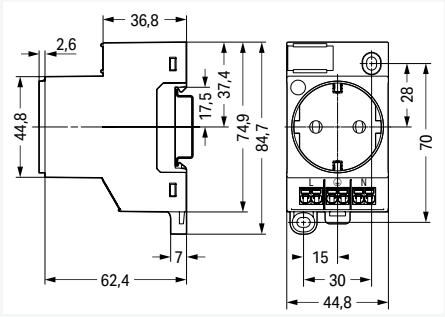
14

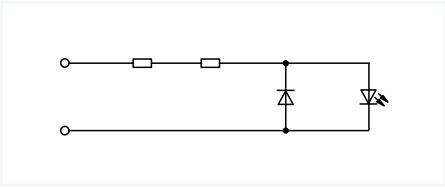
❶ The outlets are available in three colors to identify different circuits:
- 709-581 gray (standard)
- 709-582 yellow (permanently energized)
- 709-583 red (UPS)

Approvals and corresponding ratings, visit www.wago.com

Control Cabinet Outlet and Switch Cabinet Drawer
709 Series

Dimensions in mm

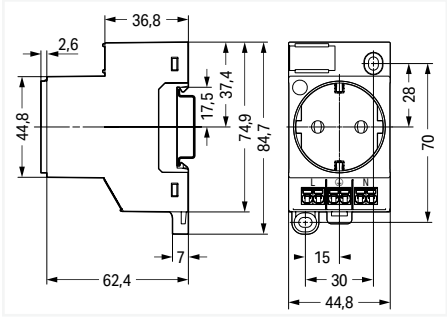


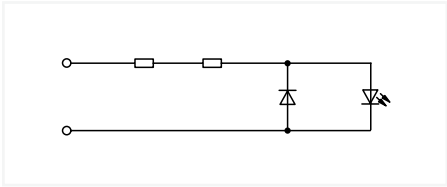


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
light gray	709-581	1

Dimensions in mm

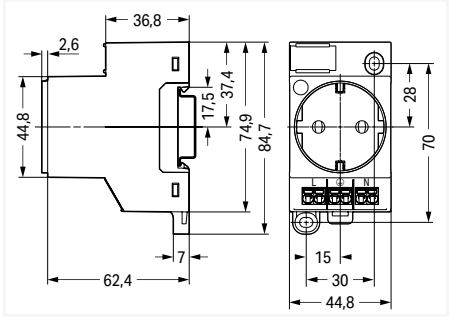


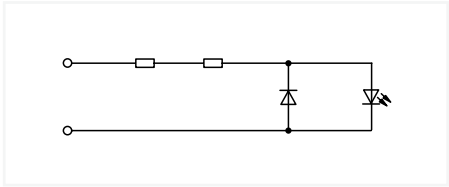


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
yellow	709-582	1

Dimensions in mm

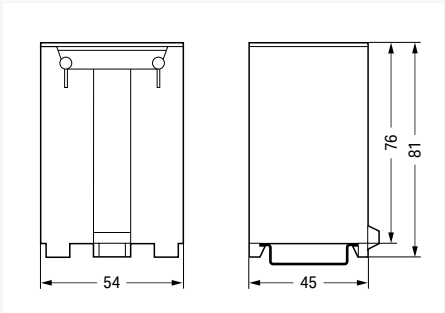




Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
red	709-583	1

Dimensions in mm

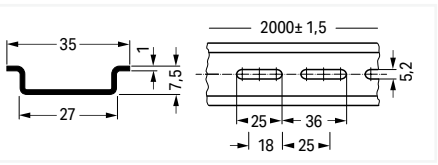


Switchgear cabinet drawer; DIN-35 rail-mount drawer

Item No.	Pack. Unit
709-591	1

DIN-Rail; Rail End Cap; Angled Support Bracket and Collective Jumper Carrier

Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-113**	10 (1)

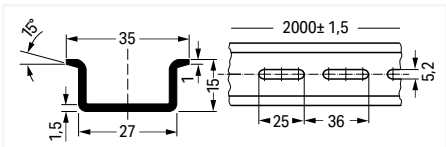
Hole width: 25 mm; Hole spacing: 36 mm

slotted	**210-112**	10 (1)

Hole width: 18 mm; Hole spacing: 25 mm

slotted	**210-115**	1

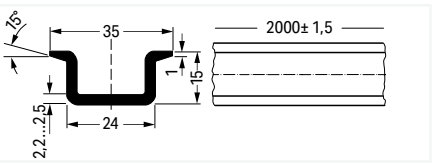
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-114**	10 (1)
slotted	**210-197**	10 (1)

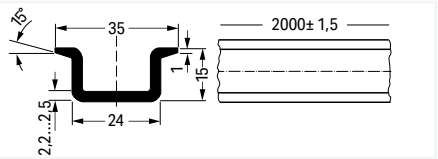
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-118**	10 (1)

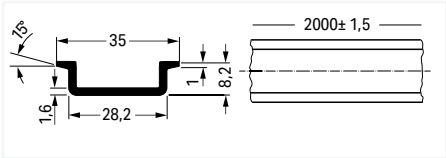
Dimensions in mm



Copper DIN-rail; I_N 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-198**	10 (1)

Dimensions in mm



Aluminum DIN-rail; I_N 76 A (based on 1 m length); 35 x 8.2 mm; 1.6 mm thick; 2 m long; similar to EN 60715

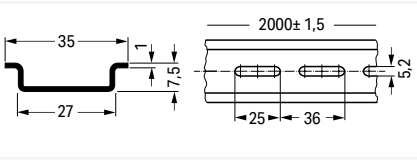
	Item No.	Pack. Unit
unslotted	**210-196**	20 (1)

Rail end cap; for DIN-35 rail (7.5 mm high)

Color	Item No.	Pack. Unit
gray	**209-109**	50 (25)

14

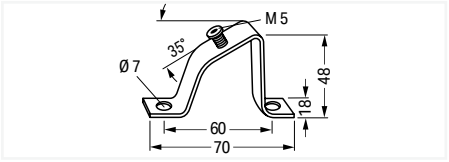
Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-505**	1
slotted	**210-504**	1

Dimensions in mm

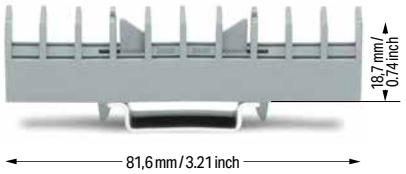


Angled support bracket; without screw

	Item No.	Pack. Unit
	210-148	10

Screw M5 x 8

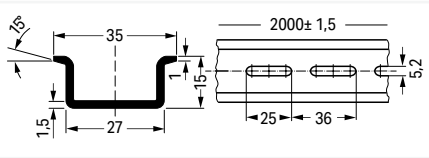
	Item No.	Pack. Unit
	210-149	100 (20)



Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)
The collective carrier can be snapped onto DIN-35 rails. It stores jumpers during maintenance.

Color	Item No.	Pack. Unit
gray	**282-369**	25

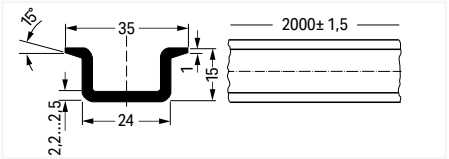
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-506**	1
slotted	**210-508**	1

Dimensions in mm



Carrier rail; plastic
Not suited for use with ground terminal blocks!

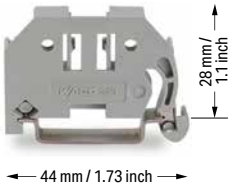
	Item No.	Pack. Unit
	210-509	10 (1)

Collective carrier for adjacent jumpers; for DIN-35 rail; for adjacent jumpers (279 to 284 Series); for banana plugs (215 Series)
The collective carrier can be snapped onto DIN-35 rails. It stores adjacent jumpers and banana plugs during maintenance.

Color	Item No.	Pack. Unit
gray	**209-100**	50 (25)

14

Screwless End Stop; for DIN-35 Rail
249 Series

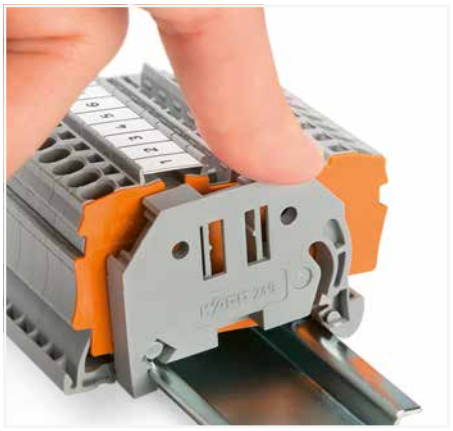


Screwless end stop; for DIN-35 rail; 6 mm wide		
Color	Item No.	Pack. Unit
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide		
gray	249-117	50 (25)

Screwless end stop; for DIN-35 rail; 14 mm wide		
Color	Item No.	Pack. Unit
gray	249-197	10


Simply snap on – that's it!


Simply snap on – that's it!


Simply snap on – that's it!


Removing an end stop from the DIN-rail.

Snap on – that's it! Assembling the WAGO Screwless End Stop is as simple and quick as snapping a rail-mount terminal block onto the rail.

Tool free!

A tool-free design allows rail-mount terminal blocks to be safely and economically secured against any movement on all DIN-35 rails per DIN EN 60715 (35 x 7.5 mm; 35 x 15 mm).

Screwless!

The "secret" to a perfect fit lies in the two small clamping plates which keep the end stop in position, even if the rails are mounted vertically.

Simply snap on – that's it!

In addition, costs are significantly reduced when using large numbers of end stops.

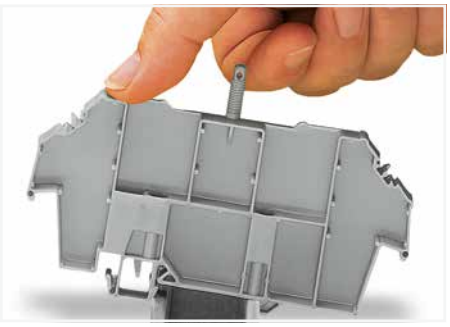
Additional benefit: Three marker slots for all WAGO Rail-Mount Terminal Block Marking Systems and one snap-in hole for WAGO's adjustable height group marker carriers offer individual marking options.

Mounting Foot

Mounting foot; for isolated DIN-35 rail mounting		
Color	Item No.	Pack. Unit
gray	209-106	25

Isolated mounting of a carrier rail in a distribution box for protection class II

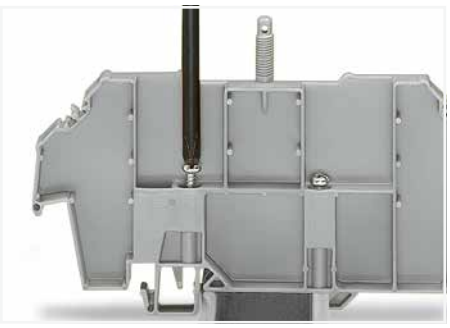
Sealable, Transparent Covers for Rail-Mount Terminal Blocks
709 Series
Description and Installation



Snapping a cover carrier onto the DIN-rail.

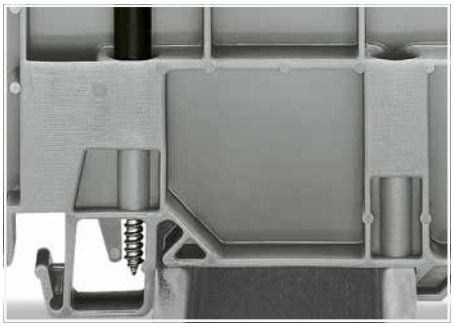
Application example:
Cover (type 1) without safety warning

Application example:
Cover (type 1) with safety warning

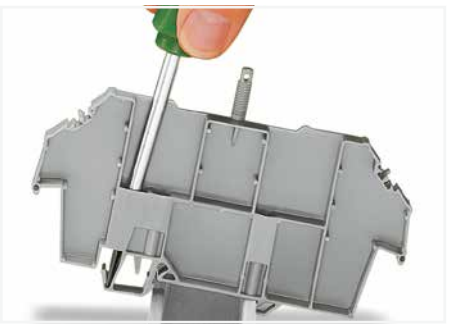


Tightening both securing screw (left) and mounting screw (right).

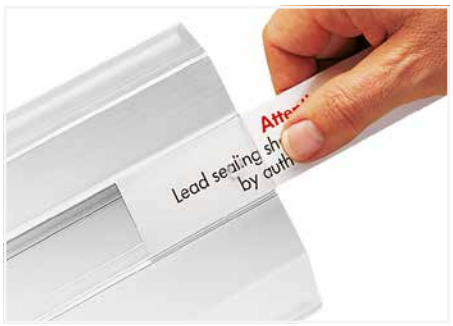
Application example:
Cover (type 2) with safety warning



Securing screw – prevents lifting off from the rail.
Mounting screw – prevents the cover carrier from being moved on the rail.



Removing a cover carrier from the DIN-rail.



Inserting a marking strip into the cover.

Cover with lead seals:
Using covers without lead seals,
the thread dome-head can be broken off.

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series

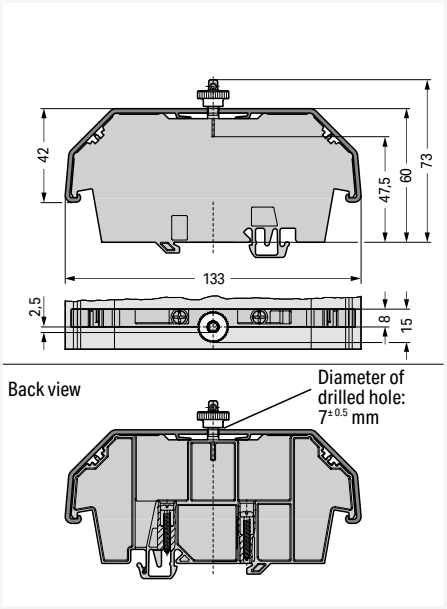
Cover; Type 1; for cover carrier (type 1); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-153**	10

Cover; Type 2; for cover carrier (type 2); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-154**	10

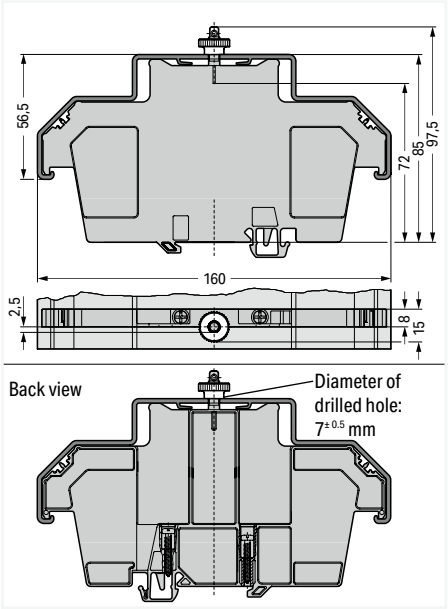
Cover carrier; Type 1; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (279 to 282, 880 Series); for "Mini" rail-mount terminal blocks (264 Series); for sensor/actuator terminal blocks (270 Series)		
Color	Item No.	Pack. Unit
gray	**709-167**	10

Cover carrier; Type 2; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (283 to 285 Series); for double- and triple-deck terminal blocks (279 to 281 Series); for TOPJOB® rail-mount terminal blocks (780 to 785 and 775 Series); for sensor/actuator terminal blocks (280 Series); for disconnect/test terminal blocks for transformer circuits (282 Series)		
Color	Item No.	Pack. Unit
gray	**709-168**	10

Dimensions in mm



Dimensions in mm



Accessories

Marking card; with 6 marking strips; for group marking or safety instructions

plain **709-183** 1

Spare mounting/securing screw; for cover

209-196 200 (25)

Spare knurled nut; for cover

210-549 100 (25)

14

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series

Cover; Type 3; for cover carrier (type 3); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-156**	10

Cover carrier; Type 3; for rail-mount terminal blocks (2000 to 2016 Series, 2102 to 2116 Series, 2200 to 2216 Series); for transformer terminal blocks (2007 Series)		
Color	Item No.	Pack. Unit
gray	**709-169**	10

Accessories

Marking card; with 6 marking strips; for group marking or safety instructions

plain	**709-183**	1

Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1

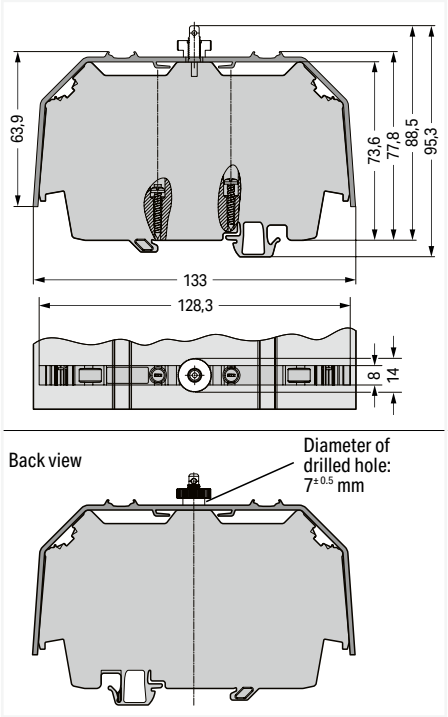
Spare mounting/securing screw; for cover

	209-196	200 (25)

Spare knurled nut; for cover

	210-549	100 (25)

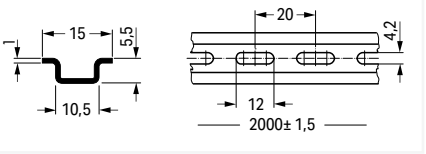
Dimensions in mm



14

DIN-Rail and End Stop; for DIN-15 Rail

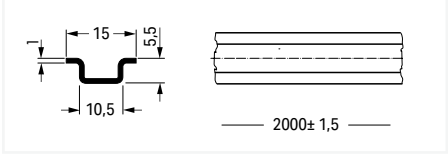
Dimensions in mm



Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
slotted	**210-111**	10 (1)

Dimensions in mm



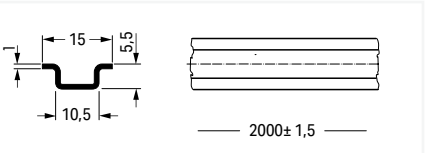
Aluminum DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-296**	10 (1)

Screwless end stop; for DIN-15 rail; 6 mm wide; for WMB markers

Color	Item No.	Pack. Unit
gray	**249-101**	25

Dimensions in mm



Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-295**	1

Operating Tool

Operating tool with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade		
	Item No.	Pack. Unit
	210-719	50 (1)

Operating tool with a partially insulated shaft; Type 2, (3.5 x 0.5) mm blade		
	210-720	50 (1)

Operating tool with a partially insulated shaft; Type 3, (5.5 x 0.8) mm blade		
	210-721	25 (1)

Set of operating tools with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade; Type 2, (3.5 x 0.5) mm blade; Type 3, (5.5 x 0.8) mm blade		
	210-722	1

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; short		
	Item No.	Pack. Unit
	210-647	50 (1)

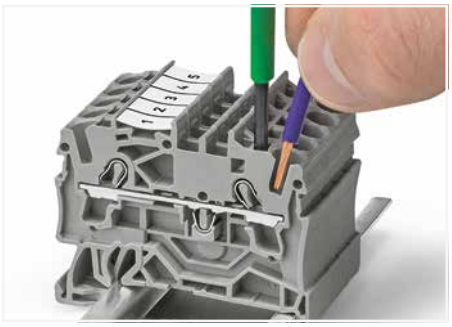
Operating tool with a partially insulated shaft; (2.5 x 0.4) mm blade; short; angled		
	210-648	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short		
	210-657	50 (1)

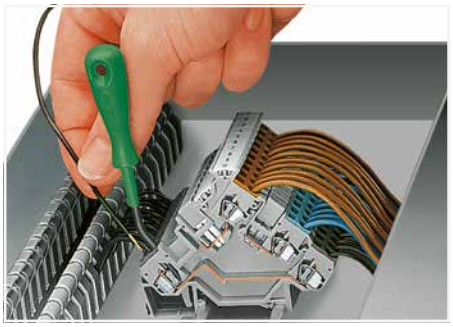
Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short; angled		
	210-658	50 (1)

Operating tool; Blades: 3.5 mm and 2.5 mm; for installation terminal blocks (TOPJOB® S)		
	Item No.	Pack. Unit
	2009-309	50 (1)

Operating tool; Blades: 3.5 mm and 5.5 mm; for installation terminal blocks (TOPJOB® S)		
	2009-310	50 (1)



The blade of this operating tool with a partially insulated shaft is ideal for operating front-entry terminal blocks.



This operating tool with blade dimensions per DIN 5264 is ideal for front-entry sensor/actuator terminal blocks (280 Series).

Open the clamping unit using an operating tool.

Set of operating tools in a box (210-722)

Operating Tool

Operating tool; insulated; for 279 Series		
	Item No.	Pack. Unit
1-way	209-129	100 (1)
2-way	279-432	100 (1)
3-way	279-433	100 (1)
10-way	279-440	30 (1)

Operating tool; insulated; for 264 Series (1- and 2-way only), 280, 281 Series (up to 3-way only)		
1-way	209-130	100 (1)
2-way	280-432	100 (1)
3-way	280-433	100 (1)
4-way	280-434	40 (1)
5-way	280-435	40 (1)
6-way	280-436	30 (1)
7-way	280-437	30 (1)
8-way	280-438	30 (1)
9-way	280-439	30 (1)
10-way	280-440	30 (1)

Operating tool; insulated; for 281 Series		
5-way	281-440	40 (1)

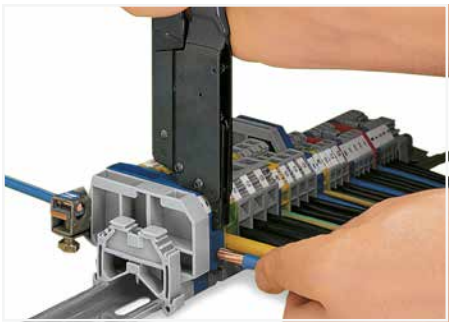
Operating pliers; for side-entry rail-mount terminal blocks (281, 282, 283 and 284 Series)		
	Item No.	Pack. Unit
	210-141	1

Operating pliers; for side-entry rail-mount terminal blocks (279 and 280 Series)		
	210-143	1

T-wrench with a partially insulated shaft		
	Item No.	Pack. Unit
	285-172	1

T-wrench with a partially insulated shaft and anti-rotation protection		
	285-173	1

Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.
The operating pliers are placed into the upper operating slot of the rail-mount terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage. This will allow both hands to be used for wiring the terminal blocks.

T-wrench with a partially insulated shaft and anti-rotation protection (285-173)

Cable Stripper

Cable knife; for Ø 8 … 28 mm / 0.31 … 1.10 inch; with a unique, changeable cable bracket system; including cable bracket

	Item No.	Pack. Unit
	206-1403	1

Cable knife set; for Ø 4 … 70 mm / 0.16 … 2.75 inch; including all cable brackets in a Sortimo® Box

	Item No.	Pack. Unit
	206-1400	1

Never use this tool on or near live electrical circuits!

To replace the cable bracket, use the new bracket as an operating tool and pull it upwards.

Item-Specific Accessories

Cable bracket; for Ø 4 … 16 mm / 0.16 … 0.63 inch

206-1411 1

Cable bracket; for Ø 8 … 28 mm / 0.31 … 1.10 inch

206-1412 1

Cable bracket; for Ø 27 … 35 mm / 1.06 … 1.38 inch

206-1413 1

Cable bracket; for Ø 35 … 50 mm / 1.38 … 1.97 inch

206-1414 1

Cable bracket; for Ø 50 … 70 mm / 1.97 … 2.75 inch

206-1415 1

The cutting depth of the hook blade can be adjusted with the slider.

Accessories

Spare inside blade

206-1418 1

Spare hook blade

206-1419 1

The cutting depth of the inner knife can be adjusted with the screw.

Strip large cross sections with the hook blade.

Release the fuse before using the hook blade.

Cable Stripper

In-socket cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1441	1

Product features:
- Extra long design and improved force transmission simplifies stripping in deep device connection sockets
- Special four-blade design for an even more precise round cut
- No cutting depth adjustment required
- TiN-coated blades, TÜV/GS tested
- Ø 8 … 13 mm / 5/16 … 1/2 inch
- Strips all standard round cables, including NYM 3 x 1.5 mm²/16 AWG … 5 x 2.5 mm²/14 AWG

Universal cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1442	1

Sheath stripping: longitudinal cut

Product features:
- Secure grip achieved with soft padding for non-slip grips
- Technically improved functionality
- New locking mechanism prevents the unwanted opening of the tool
- Absolutely straightforward, quick and easy longitudinal cuts – with innovative internal cable duct
- Redesigned blade layout and intake to stop cable waste from jamming the tool
- Durable and ergonomically designed pocket clip
- Ø 8 … 13 mm / 5/16 … 1/2 inch

Stripping a cable sheath.

Built-in handy knife

Stripping a conductor insulation.

Data cable stripper; for Ø 4.5 … 10 mm / 3/16 … 3/8 inch

Item No.	Pack. Unit
206-1451	1

Product features:
- Strip outer insulation and foil sheathing with one tool
- Ideal for stripping PVC-insulated data cables with thin insulation (e.g., Cat. 5, Cat. 6, Cat. 7, twisted pair cable)
- TiN-coated blades
- Ø 4.5 … 10 mm / 3/16 … 3/8 inch

Cable Stripper

Stripping pliers; for sensor cables; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	Item No.	Pack. Unit
	206-1481	1

Item-Specific Accessories

Replacement blade set; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	206-1491	1

Stripping pliers; for control cables; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	Item No.	Pack. Unit
	206-1482	1

Item-Specific Accessories

Replacement blade set; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	206-1492	1

Never use this tool on or near live electrical circuits!

The stripping pliers for sensor cables have a blade geometry specially designed for sensor cables with a smaller cross section and a working range from Ø 3.2 mm / 0.13 inch (for stranded cables and round cables with Ø 3.2 mm … 4.4 mm / 0.13 … 0.17 inch).

The stripping pliers for control cables are designed for stronger cables from Ø 4.4 mm / 0.17 inch (for stranded cables and round cables with Ø 4.4 mm … 7 mm / 0.17 … 0.27 inch).

These stripping pliers quickly and safely strip cables for connecting, e.g., sensor/actuator distribution boxes, bus couplers and pluggable connectors.

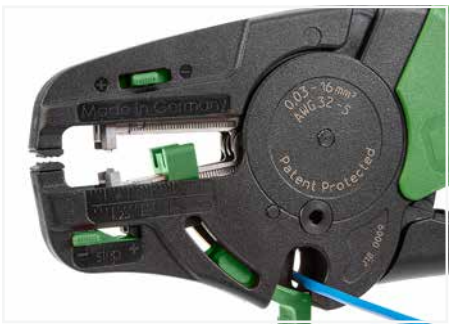
Suitable for:
- Halogen-free PUR sensor/actuator cables
- Highly flexible TPE-U cables
- Control cables
- PUR cables
- PUR/PVC cables
- PVC cables
- Multi-core cables
- Shielded and unshielded cables

Wire Stripper

Wire stripper “Quickstrip Vario”; 0.03 … 16 mm² / 34 … 6 AWG; with wire cutter		
	Item No.	Pack. Unit
	206-1125	1

Accessories

Blade set; Standard; 0.03 … 16 mm² / 34 … 6 AWG		
	206-1126	1
Blade set; V-blade; 0.14 … 4 mm² / 24 … 12 AWG		
	206-1127	1
Blade set; Oval blade; 10 … 16 mm² / 8 … 6 AWG		
	206-1128	1
Spare stripping stop		
	206-1129	1
Spare cut protector		
	206-1131	1
Spare clamping jaws		
	206-1132	1



Cutting a conductor.

Partially stripping a conductor.

Wire Stripper:

- Automatically adjust to conductor size
- Stripping blades cause no damage to conductor strands
- Gripping pressure of jaws adjusts automatically to conductor insulation diameter
- Clamping jaws and stripping blades automatically open once the stripping process is completed – no splaying of the conductor strands
- Exact strip length may be set by sliding black setting stop
- Stripping blades can be replaced
- Self-sharpening, fully protected cutter (replaceable)
- Entire body made of glass-fiber-reinforced polyamide
- Cutting capacity of the wire cutter of fine-stranded conductors up to 16 mm² (6 AWG)

Crimping Tool

Crimping tool "Variocrimp 4"; for insulated and uninsulated ferrules; Crimping range: 0.25 … 4 mm² (24 … 12 AWG)

	Item No.	Pack. Unit
	206-1204	1

Item-Specific Accessories

Spring clamp; large

206-1205 1

Spring clamp; small

206-1206 1

Crimping tool "Variocrimp 16"; for insulated and uninsulated ferrules; Crimping range: 6 mm² (10 AWG), 10 mm² (8 AWG) and 16 mm² (6 AWG)

	Item No.	Pack. Unit
	206-1216	1

Item-Specific Accessories

Spring clamp; small

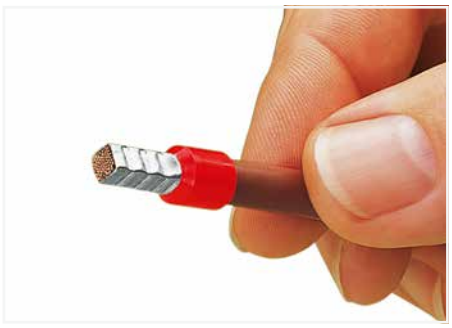
206-1206 1

Application notes:

- The built-in crimping pressure control of "Variocrimp 4" automatically adjusts the crimping force to the conductor cross section. Select the wire gauge on "Variocrimp 16" before crimping.
- Only one crimping station is needed to handle the specified conductor range.
- Uniform, compact crimping on all four sides for high conductor retention.
- No need to center the ferrules into the terminal blocks.
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.

Insert the ferruled conductor into the crimping station.

Squeeze handles until ratchet mechanism is released.



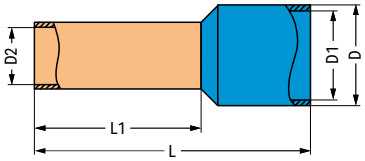
A perfect gas-tight crimp – both electrically and mechanically reliable

Only for "Variocrimp 16":
Adjust conductor cross section with crimping tool in open position.

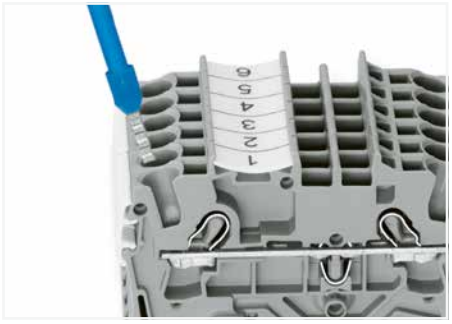
What is a "gas-tight" connection?

In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection's resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Insulated ferrule; for Rail-Mount Terminal Block TOPJOB® S

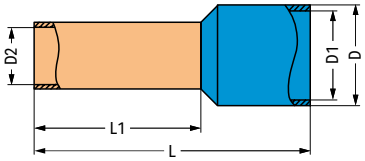


Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3.1	2.6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3.3	2.8	1.2	216-242	1000
0.75 mm² / 18 AWG	gray	14 mm / 0.55 inch	18	12	3.3	2.8	1.2	216-262	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3.5	3	1.4	216-243	1000
1 mm² / 18 AWG	red	14 mm / 0.55 inch	18	12	3.5	3	1.4	216-263	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3.5	1.7	216-244	1000
1.5 mm² / 16 AWG	black	14 mm / 0.55 inch	18	12	4	3.5	1.7	216-264	1000
1.5 mm² / 16 AWG	black	20 mm / 0.79 inch	24	18	4	3.5	1.7	216-284	500
2.5 mm² / 14 AWG	blue	12 mm / 0.47 inch	17	10	4.7	4.2	2.2	216-246	1000
2.5 mm² / 14 AWG	blue	14 mm / 0.55 inch	19	12	4.7	4.2	2.2	216-266	1000
2.5 mm² / 14 AWG	blue	20 mm / 0.79 inch	25	18	4.7	4.2	2.2	216-286	500
4 mm² / 12 AWG	gray	14 mm / 0.55 inch	20	12	5.4	4.8	2.8	216-267	500
4 mm² / 12 AWG	gray	20 mm / 0.79 inch	26	18	5.4	4.8	2.8	216-287	100
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6.9	6.3	3.5	216-208	100
6 mm² / 10 AWG	yellow	20 mm / 0.79 inch	26	18	6.9	6.3	3.5	216-288	100
10 mm² / 8 AWG	red	20 mm / 0.79 inch	28	18	8.4	7.6	4.5	216-289	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9.6	8.8	5.8	216-210	100

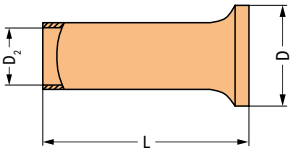


Fine-stranded conductors with ferrules from at least two sizes below the rated cross section up to the rated cross section can also be simply pushed in – without tools.

Insulated and Uninsulated Ferrules; for Chassis-Mount Terminal Strip

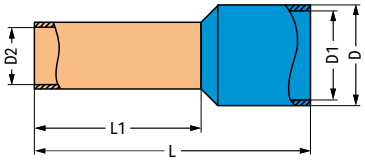


Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3.1	2.6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3.3	2.8	1.2	216-242	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3.5	3	1.4	216-243	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3.5	1.7	216-244	1000



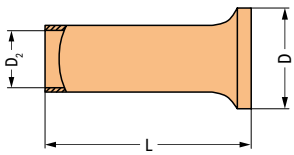
Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	10 mm / 0.39 inch	10	2.1	1	216-141	5000 (1000)
0.75 mm² / 18 AWG	10 mm / 0.39 inch	10	2.3	1.2	216-142	5000 (1000)
1 mm² / 18 AWG	10 mm / 0.39 inch	10	2.5	1.4	216-143	5000 (1000)
1.5 mm² / 16 AWG	10 mm / 0.39 inch	10	2.8	1.7	216-144	5000 (1000)

Insulated and Uninsulated Ferrules



Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)

Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	yellow	7 mm / 0.28 inch	10	6	2.3	1.8	0.85	216-321	1000
0.25 mm² / 24 AWG	yellow	9 mm / 0.35 inch	12	8	2.3	1.8	0.85	216-301	1000
0.34 mm² / 22 AWG	light turquoise	7 mm / 0.28 inch	10	6	2.5	2	0.85	216-322	1000
0.34 mm² / 22 AWG	light turquoise	9 mm / 0.35 inch	12	8	2.5	2	0.85	216-302	1000
0.5 mm² / 20 AWG	white	7 mm / 0.28 inch	12	6	3.1	2.6	1	216-221	1000
0.5 mm² / 20 AWG	white	9 mm / 0.35 inch	14	8	3.1	2.6	1	216-201	1000
0.75 mm² / 18 AWG	gray	8 mm / 0.31 inch	12	6	3.3	2.8	1.2	216-222	1000
0.75 mm² / 18 AWG	gray	10 mm / 0.39 inch	14	8	3.3	2.8	1.2	216-202	1000
1 mm² / 18 AWG	red	8 mm / 0.31 inch	12	6	3.5	3	1.4	216-223	1000
1 mm² / 18 AWG	red	10 mm / 0.39 inch	14	8	3.5	3	1.4	216-203	1000
1.5 mm² / 16 AWG	black	8 mm / 0.31 inch	12	6	4	3.5	1.7	216-224	1000
1.5 mm² / 16 AWG	black	10 mm / 0.39 inch	14	8	4	3.5	1.7	216-204	1000
2.08 mm² / 14 AWG	yellow	10 mm / 0.39 inch	15	8	4.8	4.2	2.05	216-205	1000
2.5 mm² / 14 AWG	blue	10 mm / 0.39 inch	15	8	4.7	4.2	2.2	216-206	1000
4 mm² / 12 AWG	gray	12 mm / 0.47 inch	18	10	5.4	4.8	2.8	216-207	500
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6.9	6.3	3.5	216-208	100
10 mm² / 8 AWG	red	16 mm / 0.63 inch	22	12	8.4	7.6	4.6	216-209	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9.6	8.8	5.8	216-210	100



Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)

Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	5 mm / 0.2 inch	5	1.7	0.75	216-151	1000
0.25 mm² / 24 AWG	7 mm / 0.28 inch	7	1.7	0.75	216-131	1000
0.34 mm² / 22 AWG	5 mm / 0.2 inch	5	1.8	0.85	216-152	1000
0.34 mm² / 22 AWG	7 mm / 0.28 inch	7	1.8	0.85	216-132	1000
0.5 mm² / 20 AWG	6 mm / 0.24 inch	6	2.1	1	216-121	1000
0.5 mm² / 20 AWG	8 mm / 0.31 inch	8	2.1	1	216-101	1000
0.75 mm² / 18 AWG	6 mm / 0.24 inch	6	2.3	1.2	216-122	1000
0.75 mm² / 18 AWG	8 mm / 0.31 inch	8	2.3	1.2	216-102	1000
1 mm² / 18 AWG	6 mm / 0.24 inch	6	2.5	1.4	216-123	1000
1 mm² / 18 AWG	8 mm / 0.31 inch	8	2.5	1.4	216-103	1000
1.5 mm² / 16 AWG	6 mm / 0.24 inch	6	2.8	1.7	216-124	1000
1.5 mm² / 16 AWG	8 mm / 0.31 inch	8	2.8	1.7	216-104	1000
2.5 mm² / 14 AWG	10 mm / 0.39 inch	10	3.4	2.2	216-106	1000
4 mm² / 12 AWG	10 mm / 0.39 inch	10	4	2.8	216-107	1000
6 mm² / 10 AWG	12 mm / 0.47 inch	12	4.7	3.5	216-108	500
10 mm² / 8 AWG	12 mm / 0.47 inch	12	5.8	4.5	216-109	500
16 mm² / 6 AWG	15 mm / 0.59 inch	15	7.5	5.8	216-110	500

Crimping Tool

Application notes:
- Improved crimping for higher conductor retention
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.

Crimping tool 25; for insulated and uninsulated ferrules; crimping range: 10 mm² (8 AWG), 16 mm² (6 AWG) and 25 mm² (4 AWG)		
	Item No.	Pack. Unit
	206-1225	1

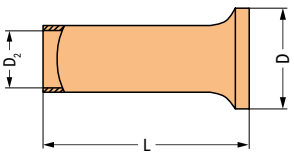
Crimping tool 50; for insulated and uninsulated ferrules; crimping range: 35 mm² (2 AWG) and 50 mm² (1/0 AWG)		
	Item No.	Pack. Unit
	206-1250	1

Insert the ferruled conductor into the crimping station.

Squeeze handles until ratchet mechanism is released.

What is a "gas-tight" connection?
In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection's resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Uninsulated Ferrule



Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
25 mm² / 4 AWG	25 mm / 0.98 inch	25	9.5	7.3	**216-413**	50
35 mm² / 2 AWG	25 mm / 0.98 inch	25	11	8.3	**216-414**	50
35 mm² / 2 AWG	30 mm / 1.18 inch	30	11	8.3	**216-424**	50
50 mm² / 1/0 AWG	30 mm / 1.18 inch	30	13	10.3	**216-425**	50
50 mm² / 1/0 AWG	35 mm / 1.38 inch	35	13	10.3	**216-435**	50

Cable Cutter

Cable cutter; for copper and aluminum cables up to 35 mm² (2 AWG)		
	Item No.	Pack. Unit
	206-118	10 (1)

Cutting a cable.

Test and Measurement Devices
206 Series

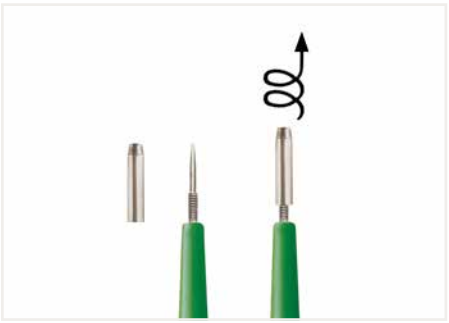
Testboy; with integrated flashlight, non-contact voltage tester

Item No.	Pack. Unit
206-804	6 (1)

A device that will reliably detect AC voltage in cables, sockets, fuses, switches, outlets and other installations.
Testboy can detect the following:
- Live conductors
- Cable breaks
- Blown fuses (in cartridges or holders)
- Defective switches
- Defective lamps in strings of lights

Spare test probes; 4 mm Ø (2 pieces)

Item No.	Pack. Unit
206-808	1



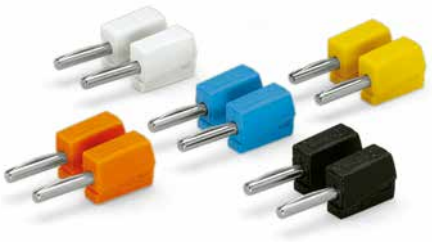
Profi-LED+:
- Improved socket contact via 4 mm Ø test probes
- Removable test probes for small test ports (suitable for all WAGO Terminal Blocks)

WAGO Test Probes; 2 mm Ø; 1000 V; CAT IV; 10 A

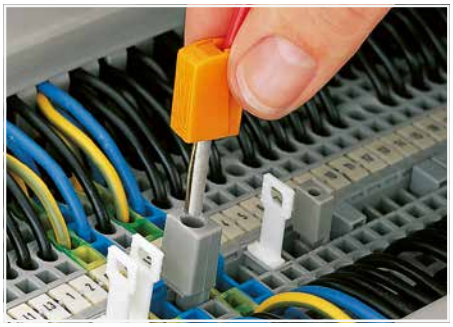
Item No.	Pack. Unit
206-912	1

Banana Plug (Only for Safety Extra-Low Voltage)
215 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
max. 42 V	
Test current: 20 A	
Measuring range category: CAT I	
9 … 11 mm / 0.35 … 0.43 inch	

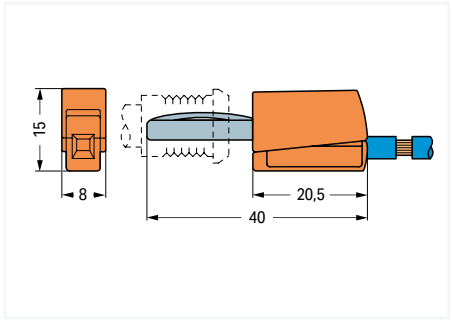


Conductor termination: Press button fully, insert stripped conductor into square entry and release.



Testing via banana plug.
Picture shows a test plug adapter (209-170).

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow		
	Item No.	Pack. Unit
	215-111	50



Dimensions in mm

Banana plug; single

Banana plug; for 4 mm socket diameter			
	orange	215-211	50

Banana plug; for 4 mm socket diameter			
	red	215-212	50

Banana plug; for 4 mm socket diameter			
	black	215-311	50

Banana plug; for 4 mm socket diameter			
	green	215-411	50

Banana plug; for 4 mm socket diameter			
	yellow	215-511	50

Banana plug; for 4 mm socket diameter			
	white	215-611	50

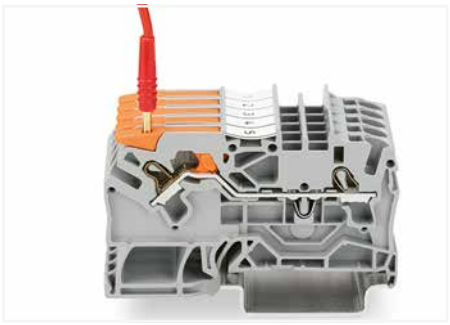
Banana plug; for 4 mm socket diameter			
	blue	215-711	50

Banana plug; for 4 mm socket diameter			
	gray	215-811	50

Banana plug; for 4 mm socket diameter			
	green-yellow	215-911	50

Test Plug
210 Series

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
Color	Item No.	Pack. Unit
red	210-136	50 (1)



Testing with a 2 mm Ø test plug (max. 42 V).

"Alu-Plus" Contact Paste
Terminating Aluminum Conductors

Syringe; contains 20 ml "Alu-Plus" Contact Paste		
	Item No.	Pack. Unit
	249-130	20 (5)

WAGO Lighting Connectors
Push nozzle of the "Alu-Plus" syringe first into the circular entry and then into the square conductor entry hole of the WAGO Lighting Connector.

Press plunger down **until the "Alu-Plus" has filled both entry holes.**

Note: Not suitable for higher temperature applications!

Terminating Aluminum Conductors
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors ❶ up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste is used for termination.

"Alu-Plus" Contact Paste Advantages:
- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

For spring clamp connections with PUSH WIRE® connection technology, **WAGO recommends that the aluminum conductor first be cleaned** and then immediately inserted into the clamping unit filled with "Alu-Plus" contact paste

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

2.5 mm² (14 AWG) = 16 A
4 mm² (12 AWG) = 22 A

WAGO Rail-Mount Terminal Blocks (up to 4 mm²/12 AWG)
For each conductor entry: Insert nozzle of the "Alu-Plus" syringe in every open conductor entry hole (one after the other).

Press plunger down until "Alu-Plus" has filled all conductor entry holes.

WAGO "Alu-Plus" in the syringe offers a higher degree of reliability and cleanliness when terminating solid aluminum conductors. Filling is quickly performed on selected WAGO connectors and terminal blocks (see pictures).

❶ Aluminum conductors per IEC 61545 standard, Class B, "Alloy 1370" with 90 … 180 N/mm² tensile strength and 1 … 4% elongation
Standard values: 90 … 180 MPa tensile strength, 1 … 4% elongation (per EN 615.4.1)