ACCESSORIES











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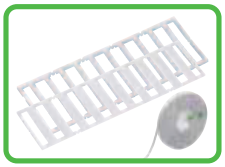

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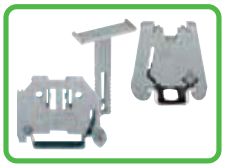

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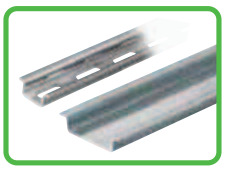

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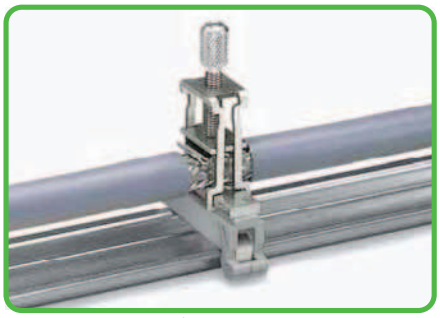
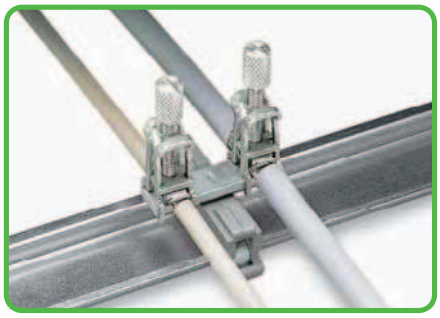
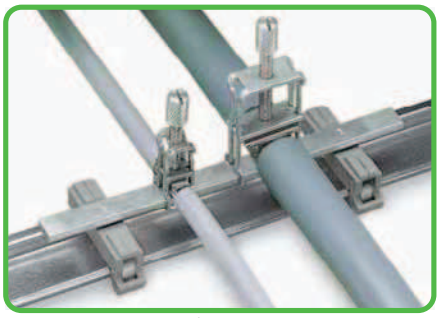
Shield Connecting System, 790 Series
– Description and Handling –



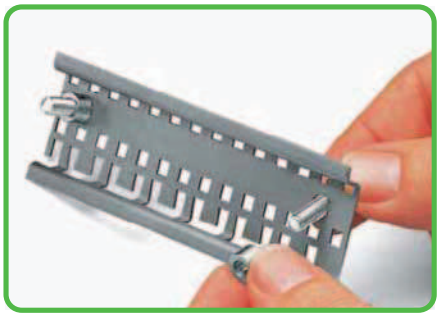
Carrier with grounding foot*
45 mm/1.772 in long, busbar 90° to the rail
Item No. 790-113



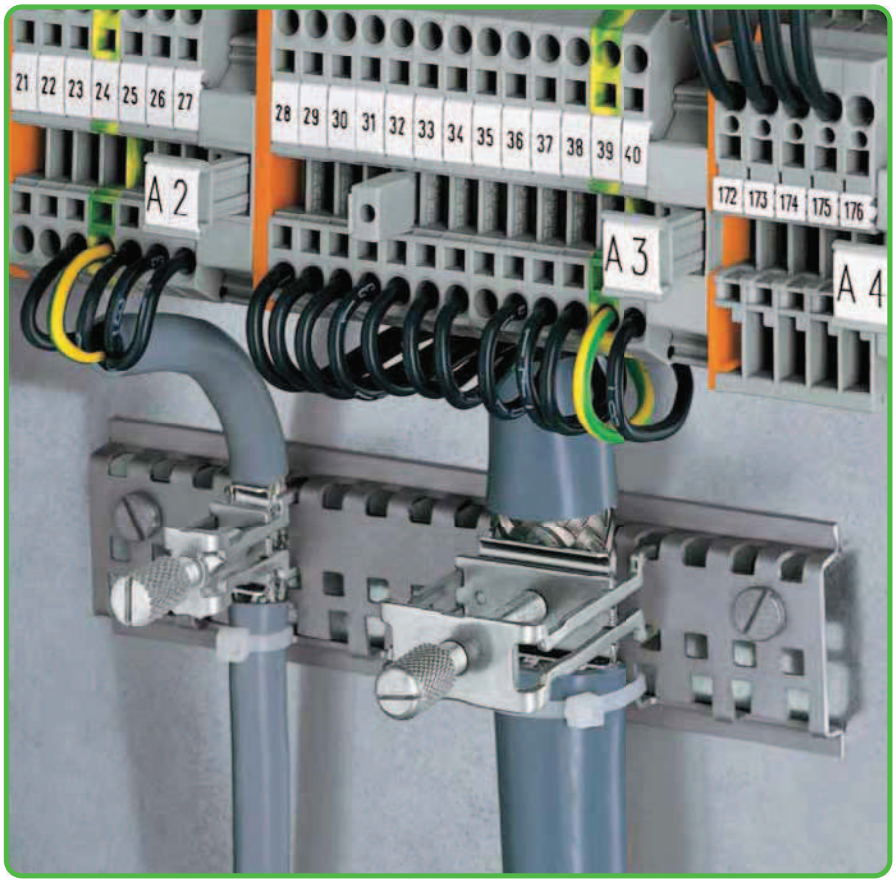
Carrier with grounding foot*
45 mm/1.772 in long, busbar parallel to the rail
Item No. 790-114

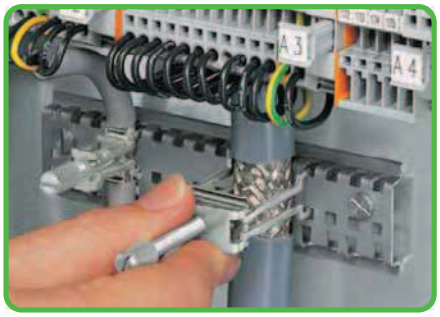


Carrier with 2 grounding feet*
125 mm/4.921 in long, busbar parallel to the rail
Item No. 790-115
* for all sizes of shield clamping saddles

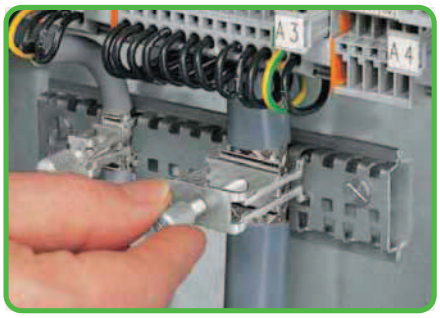


Fitting spacer sleeve to a specialty slotted carrier rail.

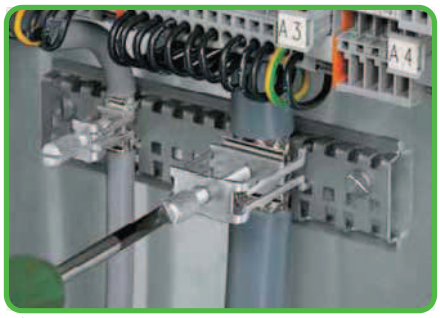




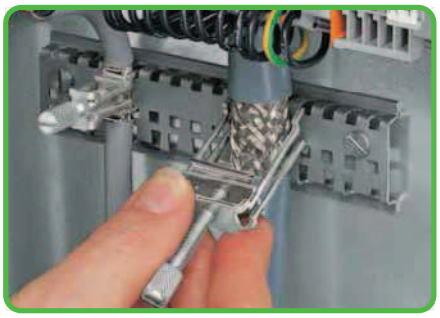
Fitting an additional clamping saddle.



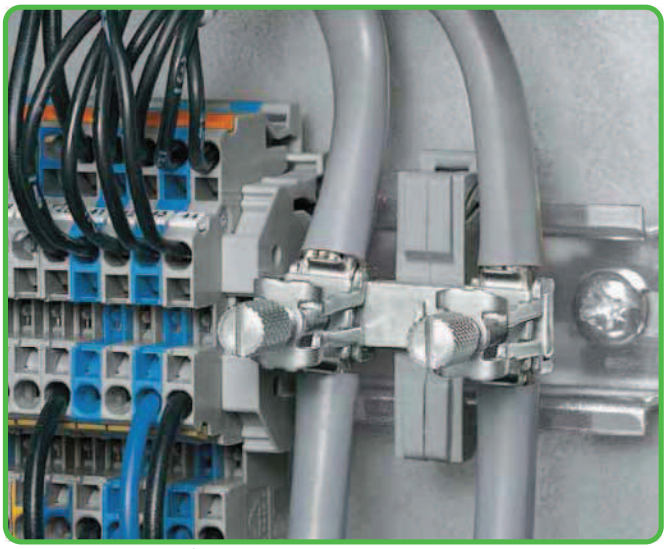
Tightening/Removing a clamping saddle.



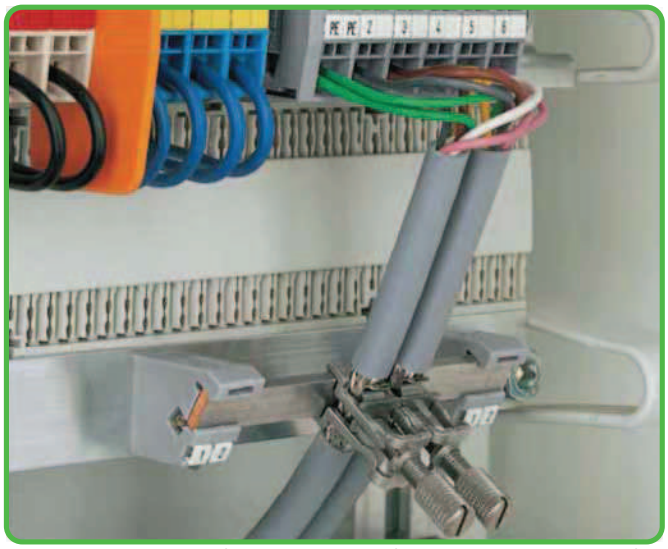
After connection, tighten the knurled screw to complete the installation.
Recommended tightening torque: 0.5 Nm



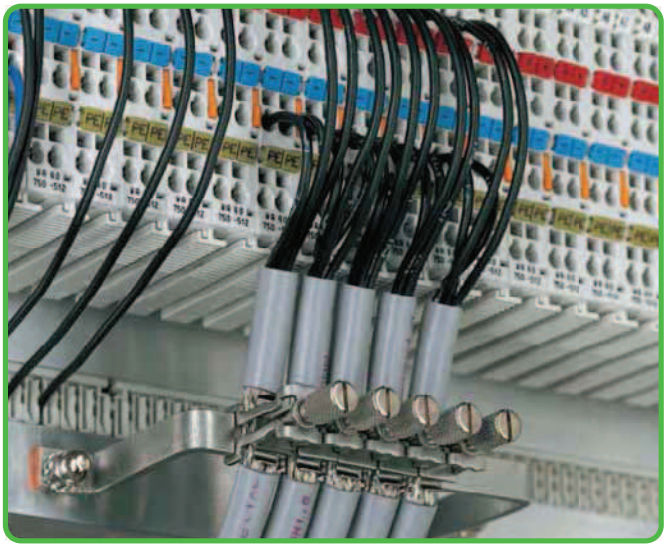
To remove the clamping saddle, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.



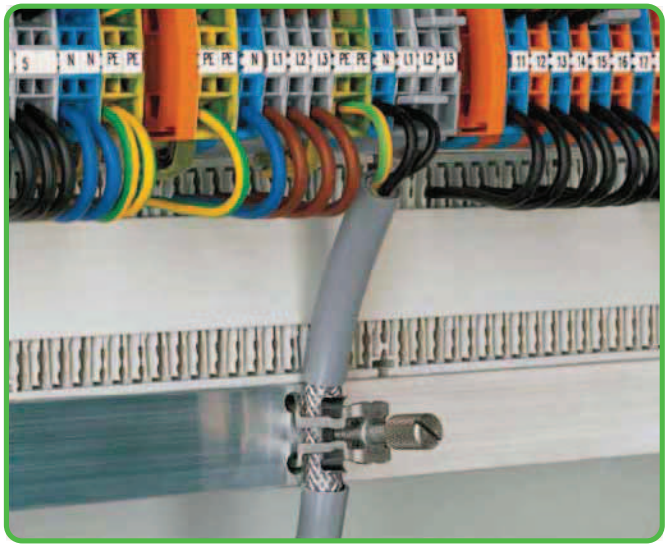
Carrier with grounding foot, busbar parallel to the rail.



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

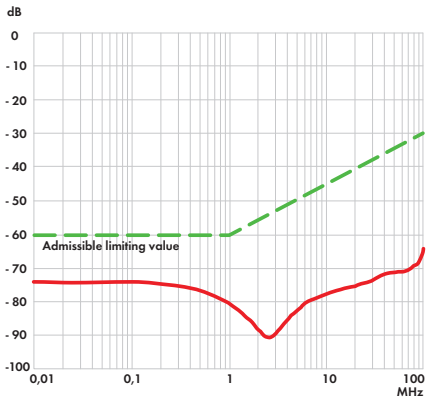


U-shaped copper busbar 10 mm (0.394 in) x 3 mm (0.118 in).



Snap into any metal plate up to max. thickness 3 mm/0.118 in.

Negative shield attenuation



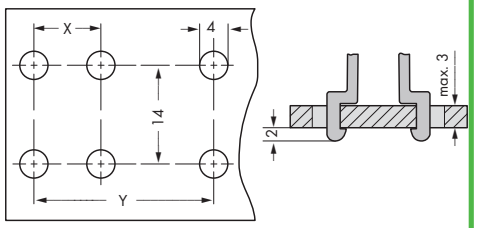
Hole dimensions for panel mounting
The WAGO shield connecting system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable.

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

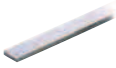
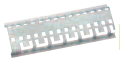


Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The spring element integrated in the shield clamping saddle compensates deformation and settling that results from a connected shield.

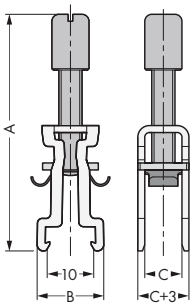
Shield Clamping Saddles

Shield clamping saddle diameter of compatible conductor up to 8 mm	Shield clamping saddle diameter of compatible conductor 7 to 16 mm	Shield clamping saddle diameter of compatible conductor 6 to 24 mm
		
Item No. **Pack. Unit**	**Item No.** **Pack. Unit**	**Item No.** **Pack. Unit**
Shield clamping saddle including knurled screw,	**Shield clamping saddle including knurled screw,**	**Shield clamping saddle including knurled screw,**
11 mm wide,	19 mm wide,	27 mm wide,
Note: Cannot be used for connecting ground conductors.	Note: Cannot be used for connecting ground conductors.	Note: Cannot be used for connecting ground conductors.
790-108 50 (5x10)	**790-116** 50 (5x10)	**790-124** 50 (5x10)

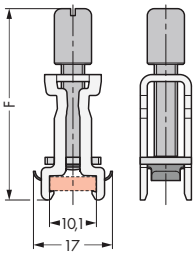
Accessories for Shield Clamping Saddles

Carrier with grounding foot,  bar parallel to the rail, Cu with tin plating 10 x 3 mm, 15 mm long, suitable for 790-108 shield clamping saddle **790-110** 25	**Carrier with grounding foot,**  90° to carrier rail, Cu with tin plating 10 x 3 mm, 45 mm, suitable for 790 Series shield clamping saddles **790-113** 25	**Carrier with 2 grounding feet,**  bar parallel to the rail, Cu with tin plating 10 x 3 mm, 125 mm long **790-115** 25
Carrier with grounding foot,  bar parallel to the rail, Cu with tin plating 10 x 3 mm, 25 mm long, suitable for 790-108 and 790-116 shield clamping saddles, as well as for 791-111 and 791-117 shield clamps **790-112** 25	**Carrier with grounding foot,**  bar parallel to the rail, Cu with tin plating 10 x 3 mm, 45 mm long, suitable for 790 Series shield clamping saddles and 791 Series shield clamps **790-114** 25	**Straight busbar,** Cu with tin plating,  10 x 3 mm, 1000 mm long **210-133** 1 **Straight busbar,** Cu with tin plating,  10 x 3 mm, 30 mm long **790-133** 20
Carrier rail, special slotted, Cu with tin plating,  1000 mm long (Special lengths upon request) **790-145** 1	**Spacer sleeve,** for specialty slotted carrier rail,  use M5-size screw **790-144** 200 (2x100)	**Straight busbar,** Cu with tin plating,  10 x 3 mm, 50 mm long **790-134** 20

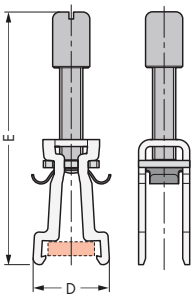
Installation position
delivery state



Closed position



Removal position



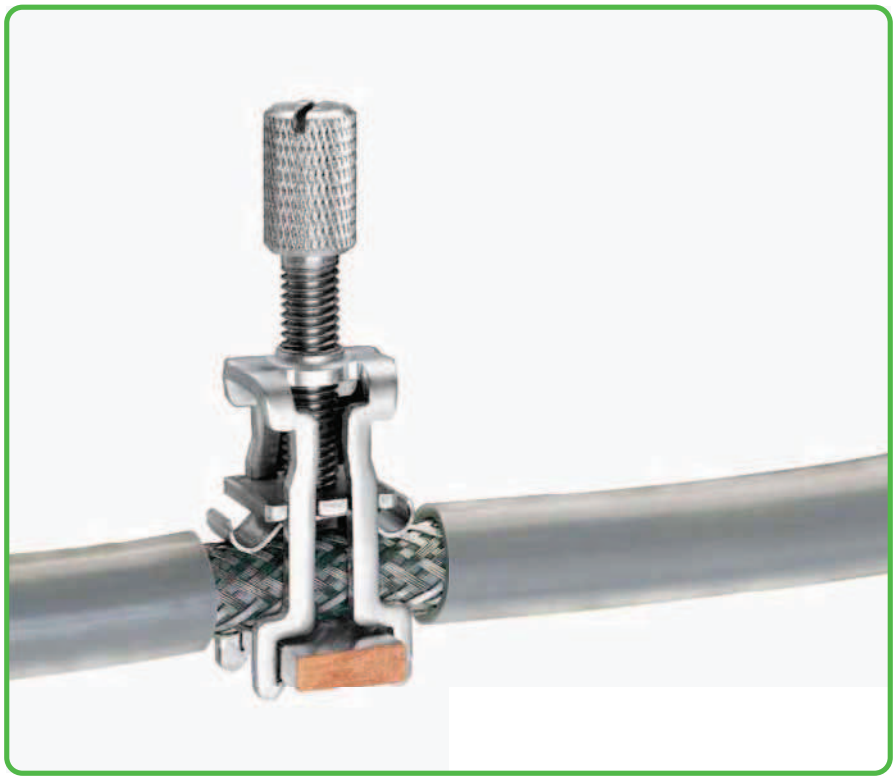
Dimensions in mm

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

Dimensions in mm

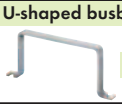
Shield clamping saddle
diameter of compatible conductor
22 to 40 mm

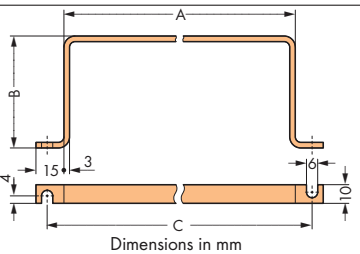




	Item No.	Pack. Unit
Shield clamping saddle including knurled screw,		
43 mm wide,		
Note: Cannot be used for connecting ground conductors.		
	790-140	50 (5x10)

Accessories for Shield Clamping Saddles

Insulated mounting foot,		
 for busbar with screw M4 x 8 mm		
gray	**790-100**	50 (2x25)
Insulated mounting foot,		
 for busbar with sheet metal screw (3.5 x 9) mm		
gray	**790-101**	50 (2x25)
U-shaped busbar,		
 Cu with tin plating 10 x 3 mm,		
for 750 Series I/O modules		
for 5 modules	**790-190**	25 (5x5)
U-shaped busbar,		
 Cu with tin plating 10 x 3 mm,		
for 750 Series I/O modules		
for 8 modules	**790-191**	25
U-shaped busbar,		
 Cu with tin plating 10 x 3 mm,		
for 750 Series I/O modules		
for 5 modules	**790-192**	25
U-shaped busbar,		
 Cu with tin plating 10 x 3 mm,		
for 750 Series I/O modules		
for 8 modules	**790-193**	25



Dimensions in mm

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

Dimensions in mm



Assembly

The shield clamping saddle is shipped ready for direct connection to the busbar 10 mm (0.394 in) x 3 mm (0.118 in) or to a drilled mounting plate. After connection, tighten the knurled screw to complete the installation.
Maximum tightening torque: 0.5 Nm



Removal

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