

# Shield (Screen) Connecting System 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

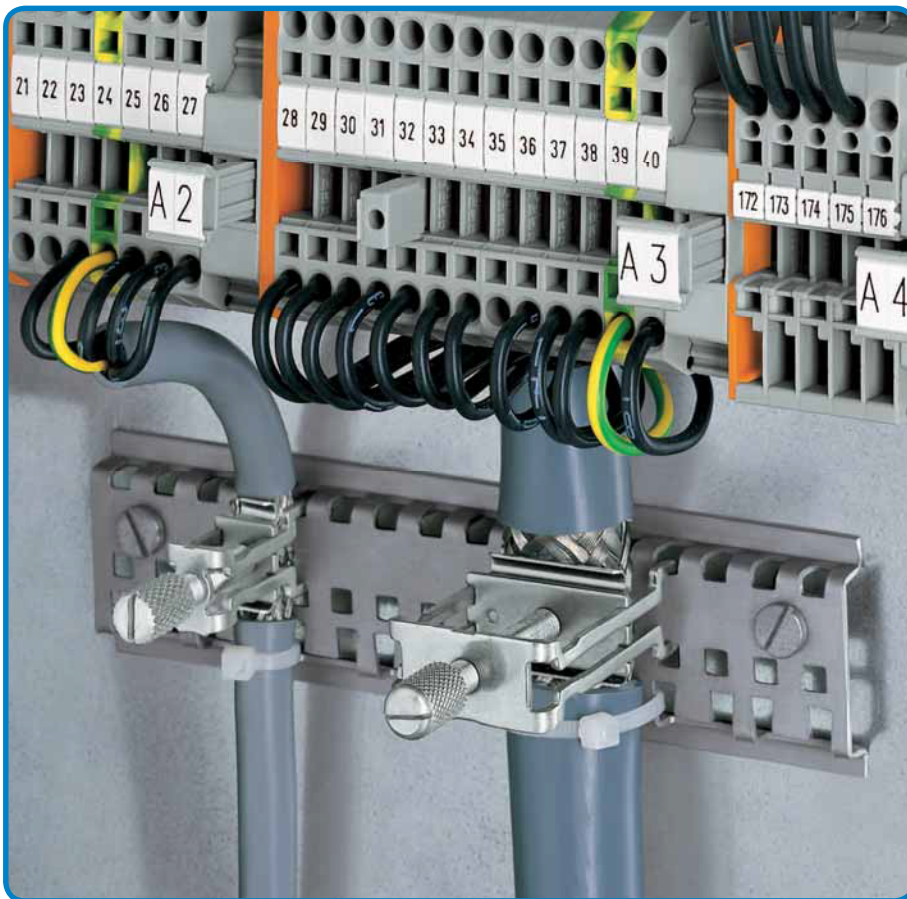


Carrier with 2 grounding feet  
125 mm/4.921 in long, busbar parallel to the rail  
Item No. 790-115

for all sizes of shield (screen) clamping saddles



Using a stand off  
with a special slotted carrier rail

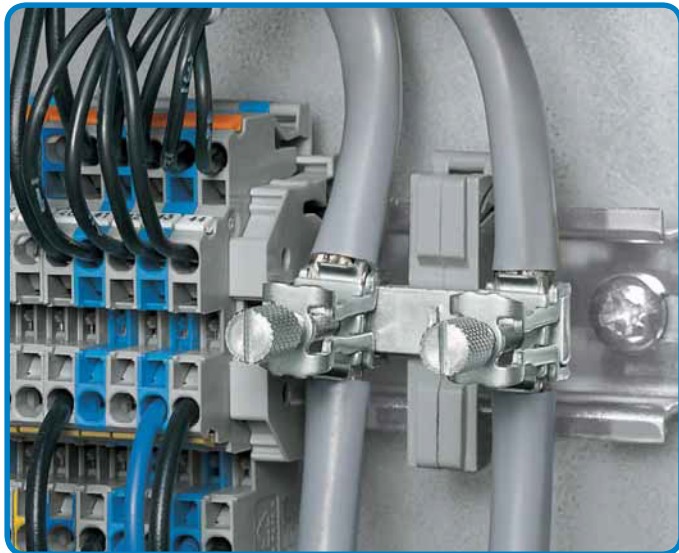


Addition of a shield (screen) clamping saddle.



Tightening/releasing a shield (screen) clamping saddle. To attach the clamping saddle, tighten the knurled screw. To remove, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.

# Mounting Options Based on Application



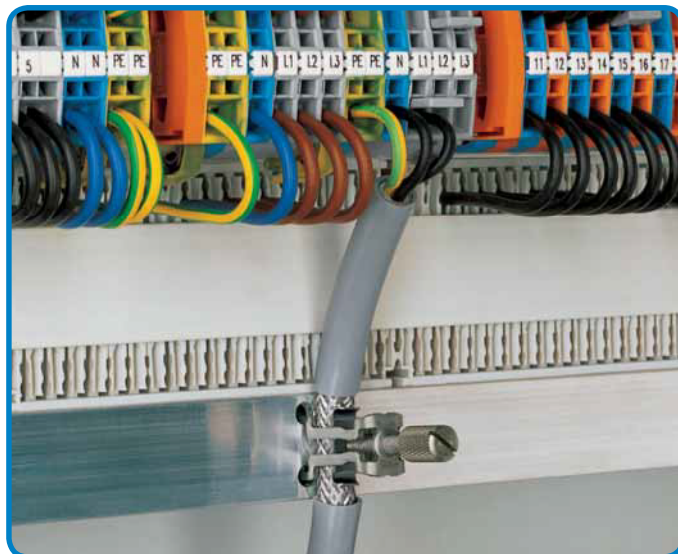
- carrier with grounding foot, busbar parallel to the rail



- isolated mounting carriers for a common shield (screen) reference potential, independent of the housing potential

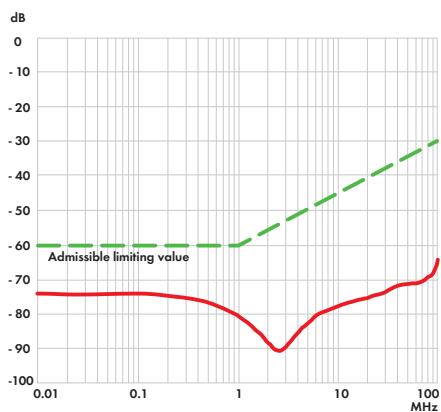


- U-shaped copper busbar 10 mm (0.394 in) x 3 mm (0.118 in)



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

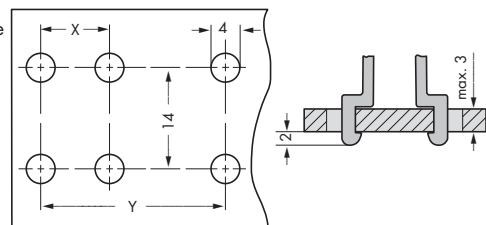
## Negative shield (screen) attenuation



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



## Hole dimensions for panel mounting

The WAGO shield (screen) connecting system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable. Additionally, the spring material is part of the clamping saddle, giving good electrical connection and compensating for any deformation in the braiding. The system also acts as a partial strain relief.



## Shield (screen) clamping saddles



Description	Diameter of Connectable Conductor		Item No.	Pack. Unit
Shield (screen) clamping saddle, incl. knurled screw	11 mm/0.433 in wide	up to 8 mm/0.315 in	790-108	50 (5x10)
	19 mm/0.748 in wide	7 mm/0.276 in to 16 mm/0.63 in	790-116	50 (5x10)
	27 mm/1.063 in wide	6 mm/0.236 in to 24 mm/0.944 in	790-124	50 (5x10)
	43 mm/1.693 in wide	22 mm/0.866 in to 40 mm/1.575 in	790-140	50 (5x10)

**Note:** Not for ground connections!

**Recommended tightening torque:** 0.5 Nm

**Assembly:** The shield (screen) 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.

**Removal:** To remove a shield (screen) clamping saddle, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.

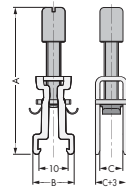
## Assembly



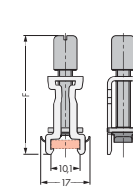
## Removal



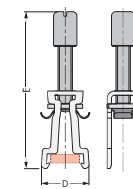
## Installation position delivery



## Closed position

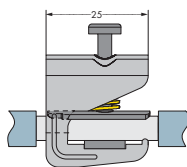
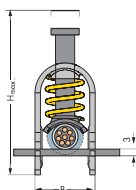


## Removal position



Item No.	Dimensions in mm					
	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 (screen) clamps



Description	Diameter of Connectable Conductor		Item No.	Pack. Unit
Shield (screen) clamps	H <sub>max</sub> 40 mm, B 10 mm	1.5 mm/0.059 in to 6.5 mm/0.256 in	791-107	50
	H <sub>max</sub> 47 mm, B 17 mm	5 mm/0.197 in to 11 mm/0.434 in	791-111	50
	H <sub>max</sub> 63 mm, B 23 mm	10 mm/0.394 in to 17 mm/0.670 in	791-117	50
	H <sub>max</sub> 78 mm, B 30 mm	16 mm/0.631 in to 24 mm/0.946 in	791-124	50

**Note:** Not for ground connections!