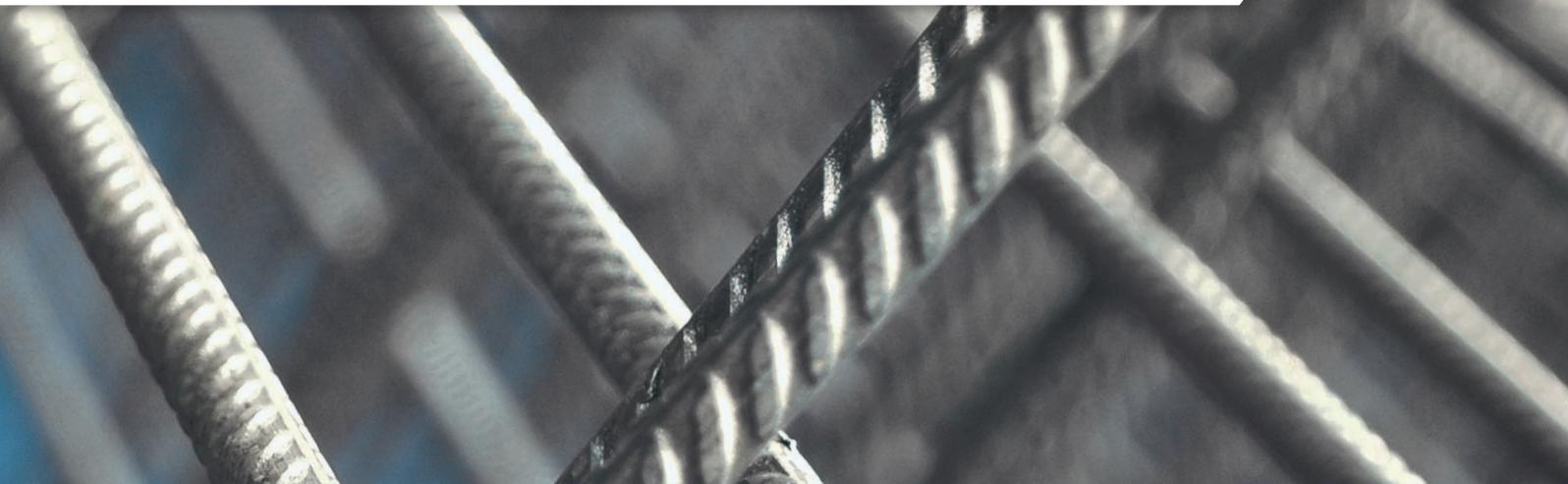




# MASTERTEC

SPECIAL ARTICLES FOR REINFORCED CONCRETE CONSTRUCTION



**PG 5**

## **LIGHTNING PROTECTION**

PRODUCT RANGE

2022/2023



# LIGHTNING PROTECTION



## Earth conductors

pages 4 – 6



## Connectors

pages 7 – 12



## Fixed earthing terminals, wall bushings + accessories

pages 13 – 25

# Earth conductors

Dimensions and materials according to DIN EN 62561-2

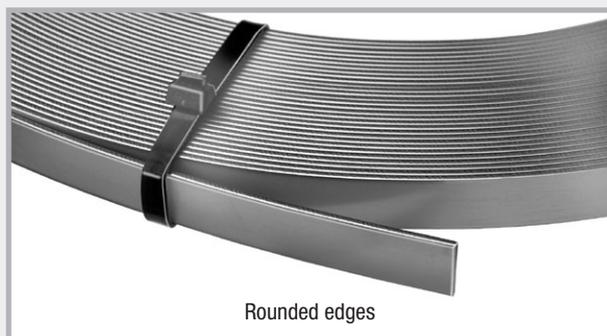
## Earthing straps

### Galvanised

Art. no.	Size	Material	PU	Secondary packaging
100014	30 x 3.5 mm	Galvanised steel Z 500	Roll 25 kg = approx. 30 m	40 rolls per pallet
100016	30 x 3.5 mm	Galvanised steel Z 500	Roll 50 kg = approx. 60 m	20 rolls per pallet
100022	40 x 4.0 mm	Galvanised steel Z 500	Roll 50 kg = approx. 39 m	20 rolls per pallet
100024	40 x 5.0 mm	Galvanised steel Z 500	Roll 50 kg = approx. 32 m	20 rolls per pallet

### Stainless steel

Art. no.	Size	Material	PU	Secondary packaging
100028	30 x 3.5 mm	V2A stainless steel according to DIN EN 62561-2	Roll 25 kg = approx. 30 m	40 rolls per pallet
100030	30 x 3.5 mm	V2A stainless steel according to DIN EN 62561-2	Roll 50 kg = approx. 60 m	20 rolls per pallet
100031	30 x 3.5 mm	V4A stainless steel according to DIN EN 62561-2	Roll 25 kg = approx. 30 m	40 rolls per pallet
100032	30 x 3.5 mm	V4A stainless steel according to DIN EN 62561-2	Roll 50 kg = approx. 60 m	20 rolls per pallet
100035	40 x 4.0 mm	V4A stainless steel according to DIN EN 62561-2	Roll 50 kg = approx. 39 m	20 rolls per pallet



# Round wires



Single coil



Packaging

## Galvanised

Art. no.	Size	Material	PU	Secondary packaging
100041	Ø 10 mm	Galvanised steel Z 350	Roll 25 kg = approx. 40.5 m	40 rolls per pallet
100042	Ø 10 mm	Galvanised steel Z 350	Roll 50 kg = approx. 81 m	20 rolls per pallet



Single coil



Packaging

## Stainless steel standard

Art. no.	Size	Material	PU	Secondary packaging
100051	Ø 10 mm	V2A stainless steel according to DIN EN 62561-2	Roll 25 kg = approx. 40.5 m	20 rolls per pallet
100052	Ø 10 mm	V2A stainless steel according to DIN EN 62561-2	Roll 50 kg = approx. 81 m	10 rolls per pallet
100055	Ø 10 mm	V4A stainless steel according to DIN EN 62561-2	Roll 25 kg = approx. 40.5 m	20 rolls per pallet
100056	Ø 10 mm	V4A stainless steel according to DIN EN 62561-2	Roll 50 kg = approx. 81 m	10 rolls per pallet
100062	Ø 10 mm	V4A stainless steel according to DIN EN 62561-2	Roll 31 kg = approx. 50 m	16 rolls per pallet

## Stainless steel SUPER-SOFT

A special manufacturing procedure ensures uniformly soft quality of the wire. SUPER-SOFT can be unrolled very easily and lies flat without undulation.



Single coil



Packaging

Art. no.	Size	Material	PU	Secondary packaging
100061	Ø 10 mm	SUPER-SOFT V4A according to DIN EN 62561-2, ID 900 mm	25 kg = approx. 40.5 m	40 rolls per pallet
100059	Ø 10 mm	SUPER-SOFT V4A according to DIN EN 62561-2, ID 900 mm	50 kg = approx. 81 m	20 rolls per pallet

# Round wires



Aluminium round conductor



Aluminium round conductor with plastic coating



Packaging

## Aluminium

Art. no.	Size	Material	PU	Secondary packaging
100080	Ø 8 mm	ALU AlMgSi soft-twistable	20 kg = approx. 148 m	18 rolls per pallet
100082	Ø 8/11 mm	ALU AlMgSi soft-twistable with halogen-free plastic coating	20 kg = approx. 100 m	18 rolls per pallet



Single coil



Packaging

## Copper

Art. no.	Size	Material	PU	Secondary packaging
100090	Ø 8 mm	F 22 soft	50 kg = approx. 111 m	10 rolls per pallet

## Multi-purpose connecting clamps

with mushroom head bolt and protection against twisting



Art. no.	Description	PU	Secondary packaging	Weight
100147	<b>Galvanised steel</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm, M10 with mushroom head bolt and protection against twisting	1 carton of 50 pcs.	5600 pcs. per pallet	5.00 kg per carton
100149	<b>V2A stainless steel</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm, M10 with mushroom head bolt and protection against twisting	1 carton of 50 pcs.	5600 pcs. per pallet	4.60 kg per carton
100150	<b>V4A stainless steel</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm, M10 with mushroom head bolt and protection against twisting	1 carton of 50 pcs.	5600 pcs. per pallet	4.60 kg per carton

## Multi-purpose connecting clamps

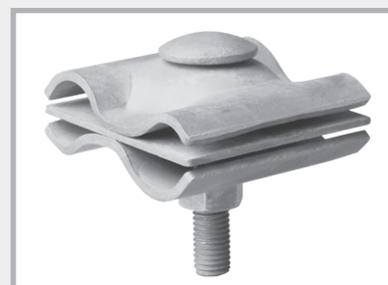
with thread in lower part



Art. no.	Description	PU	Secondary packaging	Weight
100157	<b>Galvanised steel</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm, M10 Thread in lower part	1 carton of 50 pcs.	5600 pcs. per pallet	4.50 kg per carton
100159	<b>V4A stainless steel</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm, M10 Thread in lower part	1 carton of 50 pcs.	5600 pcs. per pallet	3.80 kg per carton
100153	<b>Aluminium</b> , 2-part, round/round Clamping range: Ø 8 + 10 mm NIRO M10 screw Thread in lower part	1 carton of 50 pcs.	5600 pcs. per pallet	3.00 kg per carton
100155	<b>Copper</b> , 2-part, round/round Clamping range: Ø 8 mm NIRO M10 screw Thread in lower part	1 carton of 50 pcs.	5600 pcs. per pallet	6.00 kg per carton

## MAXI multi-purpose connecting clamp

for connection of round conductors to the reinforcement and conductive connection of steel reinforcement with up to 25 mm dia.

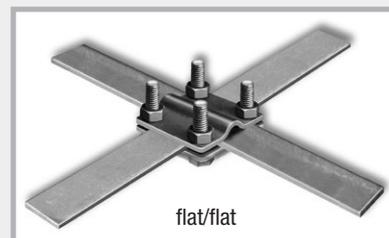
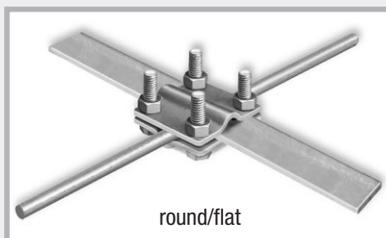
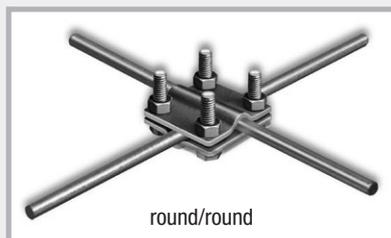


Art. no.	Description	PU	Secondary packaging	Weight
100148	<b>Galvanised steel</b> , round/round Round conductor Ø 8-16 mm / Ø 15-25 mm, with mushroom head bolt and protection against twisting	1 carton of 25 pcs.	1000 pcs. per pallet	11.25 kg per carton
100152	<b>V4A stainless steel</b> , round/round Round conductor Ø 8-16 mm / Ø 15-25 mm, with mushroom head bolt and protection against twisting	1 carton of 25 pcs.	1000 pcs. per pallet	11.25 kg per carton

## Stainless steel cross connectors, round/round

Clamping range round conductor  $\text{Ø } 8 + 10 \text{ mm}$ , flat conductor up to 30 mm  
Universal for flat/flat, flat/round and round/round

Art. no.	Description	PU	Secondary packaging	Weight
100143	V4A stainless steel, 2-part, round/round Universal heavy duty version, M8 screws	1 carton of 50 pcs.	3200 pcs. per pallet	9.60 kg per carton
100145	V4A stainless steel, 2-part, round/round Universal light version, M6 screws	1 carton of 50 pcs.	3200 pcs. per pallet	6.90 kg per carton



## Galvanised cross connectors, flat/flat

for earthing strap up to 30 mm width



Art. no.	Description	PU	Secondary packaging	Weight
100100	Galvanised steel, 2-part, flat/flat heavy duty version, M8 screws	1 carton of 50 pcs.	3200 pcs. per pallet	10.50 kg per carton
100106	Galvanised steel, 2-part, flat/flat light version, M6 screws	1 carton of 50 pcs.	3200 pcs. per pallet	7.50 kg per carton

## Galvanised cross connectors, flat/round

for round conductors  $\text{Ø } 8 + 10 \text{ mm}$   
and earthing strap up to 30 mm width



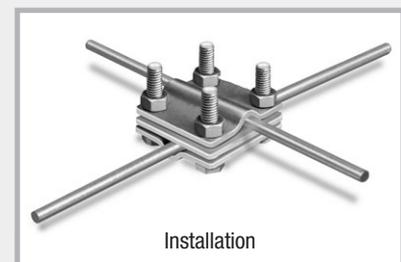
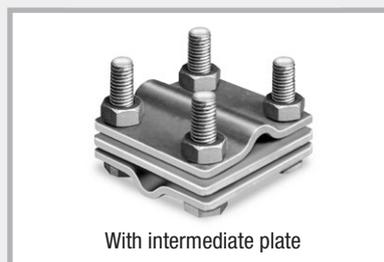
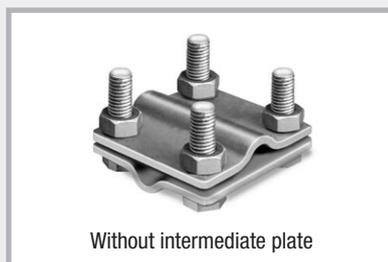
Art. no.	Description	PU	Secondary packaging	Weight
100115	Galvanised steel, 2-part, flat/round heavy duty version, M8 screws	1 carton of 50 pcs.	3200 pcs. per pallet	10.70 kg per carton
100121	Galvanised steel, 2-part, flat/round light version, M6 screws	1 carton of 50 pcs.	3200 pcs. per pallet	7.60 kg per carton

## Galvanised cross connectors, round/round

for round conductor  $\text{Ø } 8 + 10 \text{ mm}$

Universal for flat/flat, flat/round and round/round

Art. no.	Description	PU	Secondary packaging	Weight
100127	Galvanised steel, 2-part, round/round heavy duty version, M8 screws	1 carton of 50 pcs.	3200 pcs. per pallet	10.90 kg per carton
100130	Galvanised steel, 3-part, round/round heavy duty version, M8 screws With intermediate plate	1 carton of 50 pcs.	3200 pcs. per pallet	14.50 kg per carton
100133	Galvanised steel, 2-part, round/round light version, M6 screws	1 carton of 50 pcs.	3200 pcs. per pallet	7.70 kg per carton

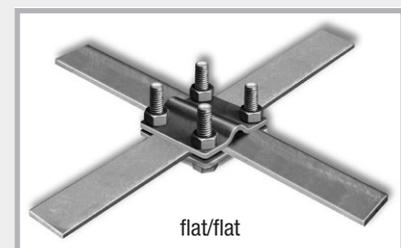
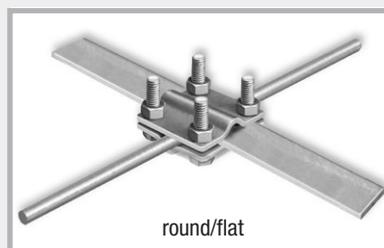
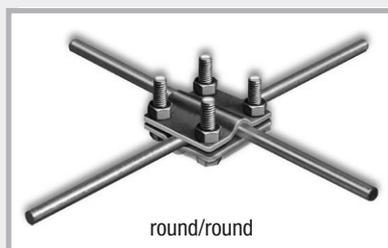


## Galvanised cross connectors, round/round

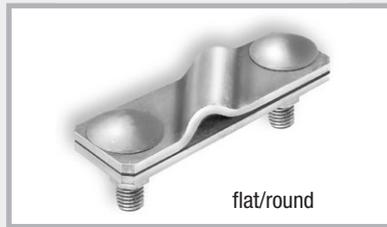
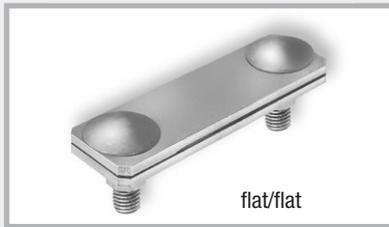
Clamping range round conductor  $\text{Ø } 8 + 10 \text{ mm}$ , flat conductor  $30 + 40 \text{ mm}$

Universal for flat/flat, flat/round and round/round

Art. no.	Description	PU	Secondary packaging	Weight
100129	Galvanised steel, 2-part, round/round heavy duty version, M8 screws	1 carton of 50 pcs.	3200 pcs. per pallet	17.80 kg per carton



## Double clamps



## Stainless steel double clamps

for earthing strap up to 40 mm width and round conductors 8 + 10 mm

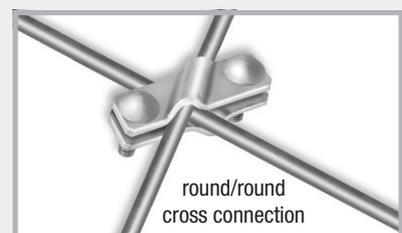
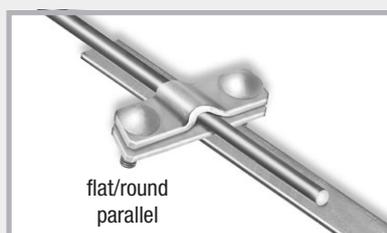
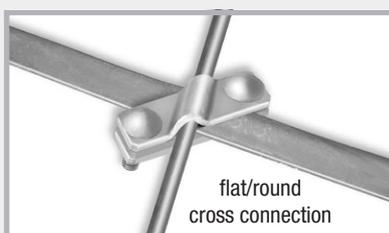
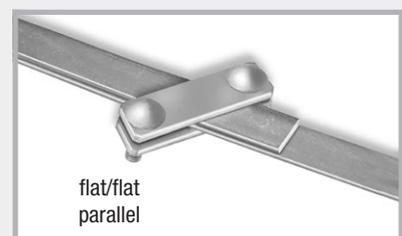
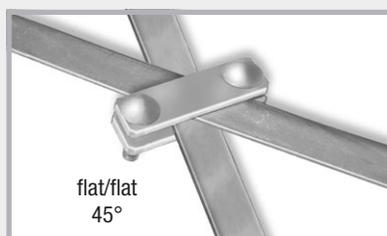
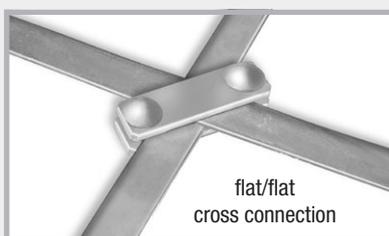
Art. no.	Description	PU	Secondary packaging	Weight
100273	<b>V4A stainless steel</b> , 2-part, flat/flat heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	10.00 kg per carton
100279	<b>V4A stainless steel</b> , 2-part, flat/round heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	9.50 kg per carton
100282	<b>V2A stainless steel</b> , 2-part, round/round heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	9.50 kg per carton
100285	<b>V4A stainless steel</b> , 2-part, round/round heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	9.50 kg per carton

## Galvanised double clamps

for earthing strap up to 40 mm width and round conductors 8 + 10 mm

Art. no.	Description	PU	Secondary packaging	Weight
100220	<b>Galvanised steel</b> , 2-part, flat/flat heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	12.20 kg per carton
100225	<b>Galvanised steel</b> , 2-part, flat/round heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	11.60 kg per carton
100230	<b>Galvanised steel</b> , 2-part, round/round heavy duty version, M10 screws	1 carton of 50 pcs.	3200 pcs. per pallet	11.60 kg per carton

## Possible clamping connections

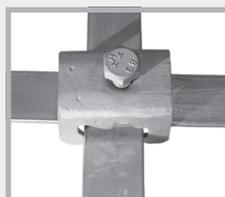


## Single clamps

Art. no.	Description	PU	Secondary packaging	Weight
100163	<b>Galvanised steel</b> , 1 M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm for T, cross and parallel connections	1 carton of 50 pcs.	3200 pcs. per pallet	6.20 kg per carton
100162	<b>V4A stainless steel</b> , 1 M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm for T, cross and parallel connections	1 carton of 50 pcs.	3200 pcs. per pallet	5.30 kg per carton



Single clamp

flat/flat  
parallel connectionflat/flat  
cross connectionflat/round  
parallel connectionflat/flat/round  
connection

## Parallel connectors

Art. no.	Description	PU	Secondary packaging	Weight
100240	<b>Galvanised steel</b> , 1 M10 screw 2-part Ø 8-10 mm	1 carton of 50 pcs.	3200 pcs. per pallet	7.20 kg per carton
100243	<b>V4A stainless steel</b> , 1 M10 screw 2-part Ø 8-10 mm	1 carton of 50 pcs.	3200 pcs. per pallet	6.20 kg per carton



## Wedge connector

Art. no.	Description	PU	Secondary packaging	Weight
100160	<b>Galvanised steel</b> round conductor Ø 10 mm flat conductor up to 40 mm with lock-in position in the wedge	1 carton of 50 pcs.	3200 pcs. per pallet	11.0 kg per carton

## Connecting clamps for connection of flat conductor to reinforcement

Art. no.	Description	PU	Secondary packaging	Weight	
100250	<b>Galvanised steel</b> , M10 screw flat conductor up to 30 mm constructional steel 6-22 mm	1 carton of 50 pcs.	4000 pcs. per pallet	6.60 kg per carton	Art. no. 100250 Art. no. 100251 
100251	<b>Bright steel</b> , M10 screw flat conductor up to 30 mm constructional steel 6-22 mm	1 carton of 50 pcs.	4000 pcs. per pallet	6.60 kg per carton	
100253	<b>Galvanised steel</b> , M10 screw flat conductor up to 40 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	6.60 kg per carton	Art. no. 100252 Art. no. 100253 
100252	<b>V4A stainless steel</b> , M10 screw flat conductor up to 40 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	5.40 kg per carton	

## Connecting clamps for connection of flat and round conductors to reinforcement

Art. no.	Description	PU	Secondary packaging	Weight	
100255	<b>Galvanised steel</b> , M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	9.40 kg per carton	Art. no. 100255 Art. no. 100257 
100257	<b>V4A stainless steel</b> , M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	8.20 kg per carton	
100146	<b>Universal connecting clamp with pressure plate</b> <b>Galvanised steel</b> , M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	7.50 kg per carton	Art. no. 100146 Art. no. 100254  Pressure plate
100254	<b>Universal connecting clamp with pressure plate</b> <b>V4A stainless steel</b> , M10 screw flat conductor up to 30 mm round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	7.00 kg per carton	

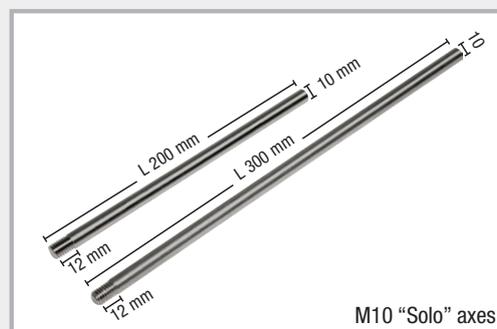
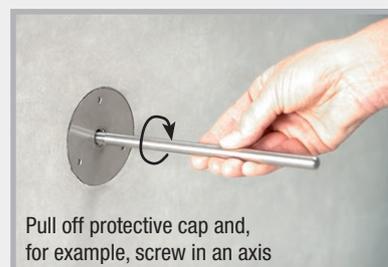
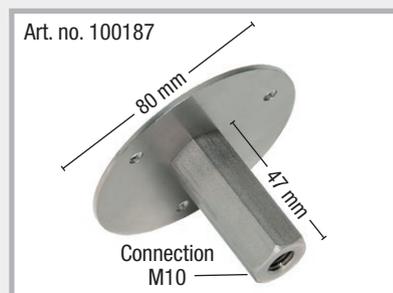
## Connecting clamps for connection of round conductor to reinforcement

Art. no.	Description	PU	Secondary packaging	Weight	
100259	<b>Galvanised steel</b> , M10 screw round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	5.80 kg per carton	Art. no. 100259 Art. no. 100260 Art. no. 100261 
100261	<b>Bright steel</b> , M10 screw round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	5.80 kg per carton	
100260	<b>V4A stainless steel</b> , M10 screw round conductor 8 + 10 mm constructional steel 6-22 mm	1 carton of 50 pcs.	3200 pcs. per pallet	5.10 kg per carton	

## Fixed earthing terminal M10/M12

to connect the equipotential bonding conductors to the ring earth electrode, reinforcement and lightning protection system

Art. no.	Description	PU	Weight
100187	Fixed earthing terminal M10/M12, V4A stainless steel without axis, with yellow protective cap connection M10 + M12	1 carton of 10 pcs.	1.90 kg per carton
<b>NEW!</b> 100195	Fixed earthing terminal M10/M12 "Safe" without axis, with yellow protective cap and water barrier connection M10 + M12	1 carton of 10 pcs.	2.30 kg per carton
100202	Fixed earthing terminal M10/M12, V4A stainless steel with mounted, galvanised axis, L 200 mm with yellow protective cap	1 carton of 10 pcs.	3.10 kg per carton
100200	Fixed earthing terminal M10/M12, V4A stainless steel with mounted A2 multi-purpose connecting clamp with yellow protective cap	1 carton of 10 pcs.	2.50 kg per carton

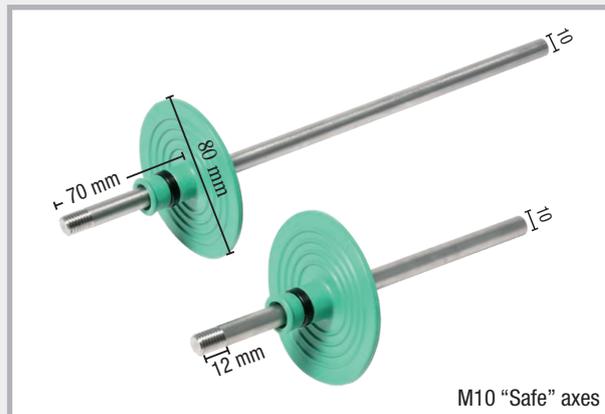


## M10 "Solo" axes for fixed earthing terminal

Art. no.	Description	PU	Weight
100183	galvanised, length 200 mm	Carton of 50 pcs.	6.50 kg/carton
100185	galvanised, length 300 mm	Carton of 50 pcs.	9.80 kg/carton
100184	V4A stainless steel, length 200 mm	Carton of 50 pcs.	6.50 kg/carton
100186	V4A stainless steel, length 300 mm	Carton of 50 pcs.	9.80 kg/carton

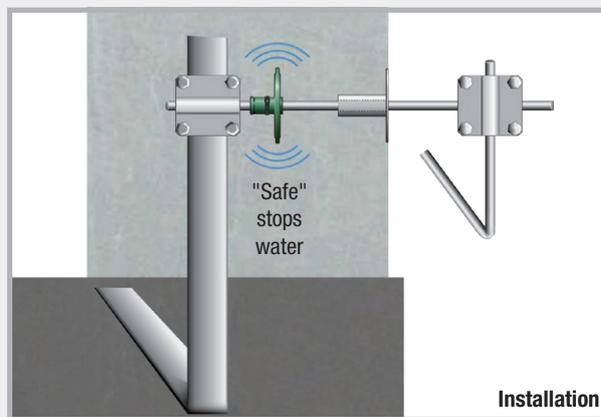
# M10 "Safe" axes for fixed earthing terminal

## Pressure water-tight



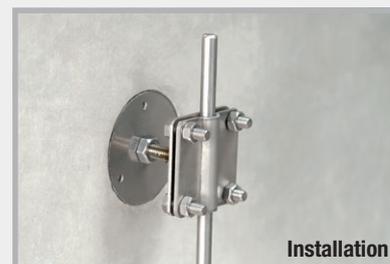
M10 "Safe" axes

Art. no.	Description	PU	Weight
100177	galvanised, length 200 mm	1 pc.	0.15 kg/pc.
100178	galvanised, length 300 mm	1 pc.	0.21 kg/pc.
100179	V4A stainless steel, length 200 mm	1 pc.	0.15 kg/pc.
100180	V4A stainless steel, length 300 mm	1 pc.	0.21 kg/pc.



## Cross clamps for fixed earthing terminals M10/M12

Art. no.	Description	PU	Weight
100188	<b>Cross clamp for fixed earthing terminal M10/M12, galvanised</b> Thread M10, round 8 + 10 mm flat up to 40 mm, thread length 70 mm	Carton of 10 pcs.	3.90 kg per carton
100189	<b>Cross clamp for fixed earthing terminal M10/M12, V4A stainless steel</b> Thread M10, round 8 + 10 mm flat up to 40 mm, thread length 70 mm	Carton of 10 pcs.	3.20 kg per carton



Fixed earthing terminal with screwed in cross clamp. Round and flat conductors can be connected.

## M10 wall bushings with pre-assembled fixed earthing terminals

The M10 wall bushings are pre-assembled and supplied in the exact wall thickness. Time-consuming adjustments are not required. Fixed earthing terminal in V4A stainless steel, connection axes 10 mm stainless steel

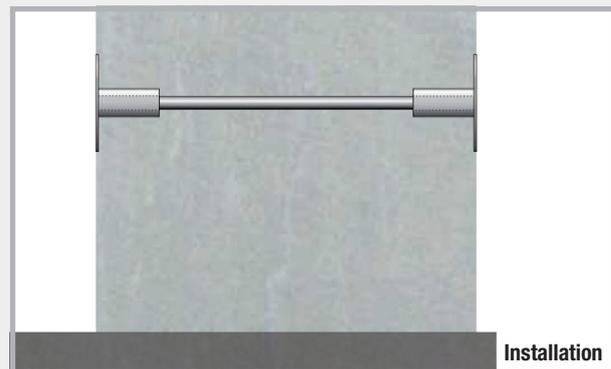
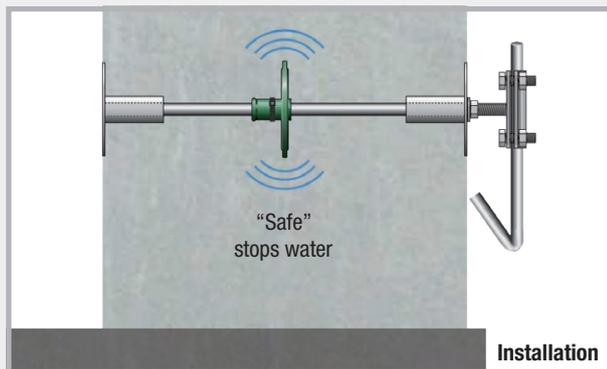


M10 "Safe" wall bushing



M10 "Solo" wall bushing

Wall thickness	Art. no.	Weight	Art. no.	Weight
200 mm	<b>100394</b>	0.45 kg	<b>100444</b>	0.43 kg
240 mm	<b>100396</b>	0.46 kg	<b>100446</b>	0.44 kg
250 mm	<b>100398</b>	0.47 kg	<b>100448</b>	0.45 kg
300 mm	<b>100400</b>	0.50 kg	<b>100450</b>	0.48 kg
350 mm	<b>100402</b>	0.53 kg	<b>100452</b>	0.51 kg
365 mm	<b>100404</b>	0.54 kg	<b>100454</b>	0.52 kg
400 mm	<b>100406</b>	0.57 kg	<b>100456</b>	0.55 kg



## M10 connection axis for wall bushings

Stainless steel, diameter 10 mm, M10 thread at both ends, length of thread 12 mm



"Safe" connection axis



"Solo" connection axis

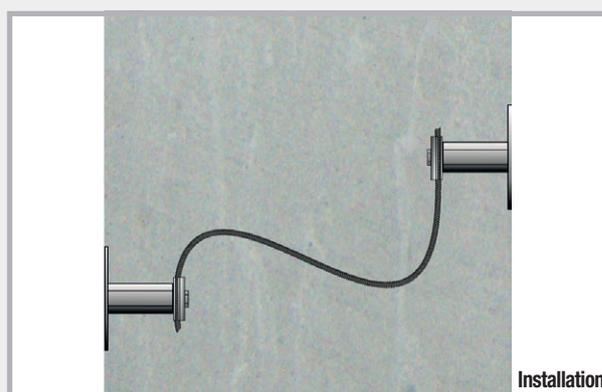
Wall thickness	Art. no.	Weight	Art. no.	Weight
200 mm	<b>100360</b>	0.12 kg	<b>100410</b>	0.10 kg
240 mm	<b>100365</b>	0.13 kg	<b>100415</b>	0.11 kg
250 mm	<b>100370</b>	0.14 kg	<b>100420</b>	0.11 kg
300 mm	<b>100375</b>	0.17 kg	<b>100425</b>	0.14 kg
350 mm	<b>100380</b>	0.20 kg	<b>100430</b>	0.17 kg
365 mm	<b>100385</b>	0.21 kg	<b>100435</b>	0.18 kg
400 mm	<b>100390</b>	0.23 kg	<b>100440</b>	0.20 kg

## Wall bushing, flexible

**NEW!** flexible wall bushing M10

for height-shifted and side-shifted positioning of earthing connections,  
fixed earthing terminal in V4A stainless steel, steel cable Ø 10 mm

Art. no.	Description	PU	Weight
100660	<b>Wall bushing, flexible 600 mm</b> 2 x fixed earthing terminal with connecting clamp 1 x steel cable length 600 mm	1 pc.	0.75 kg per carton
100662	<b>Wall bushing, flexible 1200 mm</b> 2 x fixed earthing terminal with connecting clamp 1 x steel cable length 1200 mm	1 pc.	0.95 kg per carton

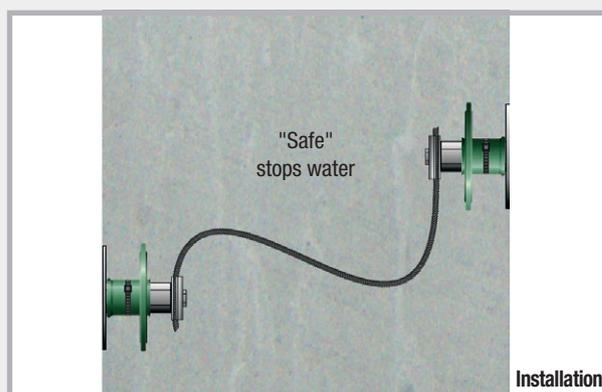


## Wall bushing, flexible "Safe"

**NEW!** Flexible, pressure water-tight wall bushing M10

for height-shifted and side-shifted positioning of earthing connections,  
sealed against pressurised water by means of RONDO EFP

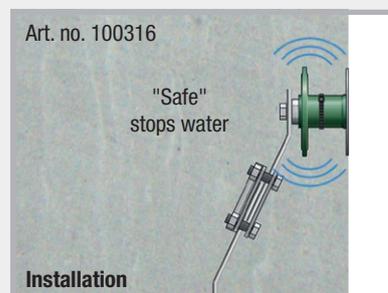
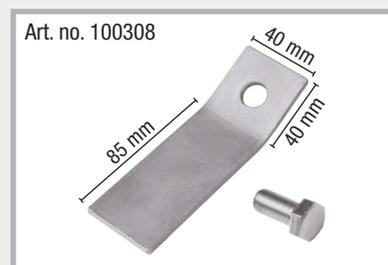
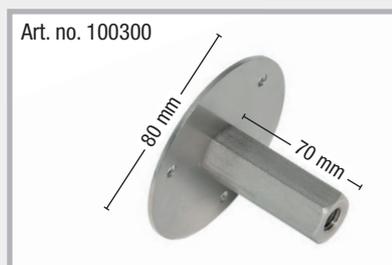
Art. no.	Description	PU	Weight
100670	<b>Wall bushing, flexible 600 mm "Safe"</b> 2 x fixed earthing terminal with connecting clamp and RONDO EFP 1 x steel cable length 600 mm	1 pc.	0.85 kg per carton
100672	<b>Wall bushing, flexible 1200 mm</b> 2 x fixed earthing terminal with connecting clamp and RONDO EFP 1 x steel cable length 1200 mm	1 pc.	1.05 kg per carton



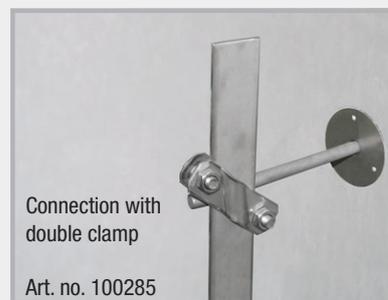
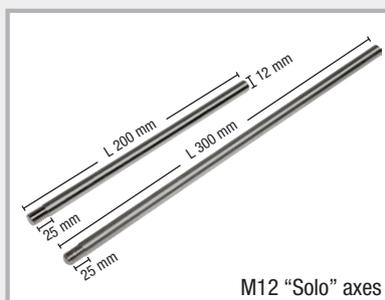
## Fixed earthing terminal M12

to connect the equipotential bonding conductors to the ring earth electrode, reinforcement and lightning protection system

Art. no.	Description	PU	Weight
100300	<b>Fixed earthing terminal M12, V4A stainless steel with yellow protective cap</b> Connection M12	1 carton of 10 pcs.	2.00 kg per carton
100304	<b>Fixed earthing terminal M12 "Safe" with yellow protective cap and water barrier</b> Connection M12	1 carton of 10 pcs.	2.40 kg per carton
100308	<b>Connecting plate 40 x 4 mm</b> incl. screw M12 x 25	1 carton of 10 pcs.	2.00 kg per carton
100312	<b>Fixed earthing terminal M12 with connecting plate and yellow protective cap</b> Connection M12	1 carton of 10 pcs.	4.00 kg per carton
100316	<b>Fixed earthing terminal M12 "Safe" with connecting plate and yellow protective cap</b> Connection M12	1 carton of 10 pcs.	4.40 kg per carton



## M12 "Solo" axes for fixed earthing terminal



Art. no.	Description	PU	Weight
101170	<b>galvanised</b> , length 200 mm	Carton of 50 pcs.	8.00 kg/carton
101172	<b>galvanised</b> , length 300 mm	Carton of 50 pcs.	12.00 kg/carton
101174	<b>V4A stainless steel</b> , length 200 mm	Carton of 50 pcs.	8.00 kg/carton
101176	<b>V4A stainless steel</b> , length 300 mm	Carton of 50 pcs.	12.00 kg/carton

## M12 “Safe” axes for fixed earthing terminal Pressure water-tight



Art. no.	Description	PU	Weight
101180	galvanised, length 200 mm	1 pc.	0.19 kg/pc.
101182	galvanised, length 300 mm	1 pc.	0.27 kg/pc.
101184	V4A stainless steel, length 200 mm	1 pc.	0.19 kg/pc.
101186	V4A stainless steel, length 300 mm	1 pc.	0.27 kg/pc.

## Cross clamps for fixed earthing terminals M12

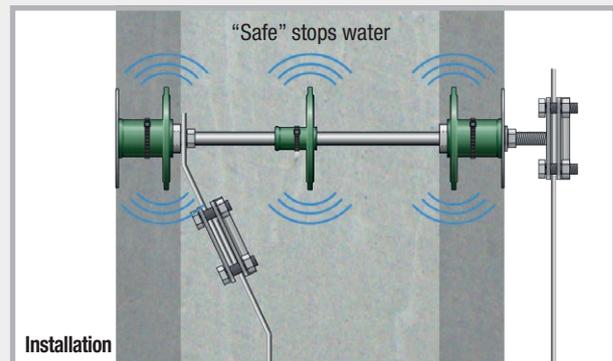
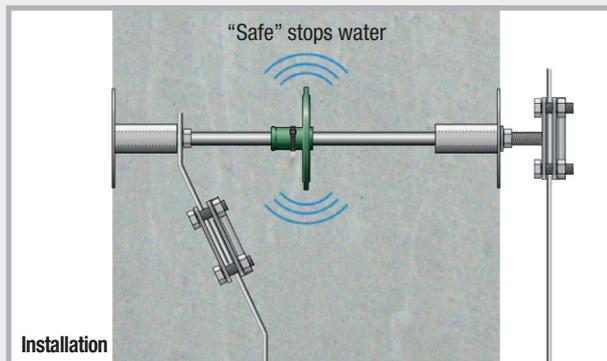
Art. no.	Description	PU	Weight
100460	<b>Cross clamp for fixed earthing terminal M12, galvanised</b> M12 thread, thread length 70 mm Clamping range: round 8 + 10 mm, flat up to 40 mm	Carton of 10 pcs.	3.90 kg per carton
100462	<b>Cross clamp for fixed earthing terminal M12, V4A stainless steel</b> M12 thread, thread length 70 mm Clamping range: round 8 + 10 mm, flat up to 40 mm	Carton of 10 pcs.	3.90 kg per carton
100464	<b>Cross clamp for fixed earthing terminal M12, V4A stainless steel</b> M12 thread, thread length 200 mm Clamping range: round 8 + 10 mm, flat up to 40 mm	Carton of 10 pcs.	4.25 kg per carton



## Wall bushings M12 with fixed earthing points pre-assembled

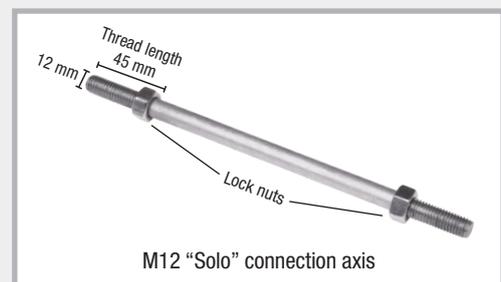
The M12 wall bushings are pre-assembled and supplied in the exact wall thickness. Time-consuming adjustments are not required. Fixed earthing terminal in stainless steel V4A, connection axes 12 mm stainless steel incl. connecting plate 4 x 40 mm

Wall thickness	Art. no.	Weight	Art. no.	Weight
200 mm	<b>100334</b>	0.53 kg/pc.	<b>100348</b>	0.61 kg/pc.
240 mm	<b>100336</b>	0.57 kg/pc.	<b>100350</b>	0.65 kg/pc.
250 mm	<b>100338</b>	0.58 kg/pc.	<b>100352</b>	0.66 kg/pc.
300 mm	<b>100340</b>	0.62 kg/pc.	<b>100354</b>	0.70 kg/pc.
350 mm	<b>100342</b>	0.67 kg/pc.	<b>100356</b>	0.75 kg/pc.
365 mm	<b>100344</b>	0.68 kg/pc.	<b>100358</b>	0.76 kg/pc.
400 mm	<b>100346</b>	0.72 kg/pc.	<b>100359</b>	0.80 kg/pc.



## M12 connection axis "Solo" for wall bushings

Stainless steel, diameter 12 mm,  
M12 thread at both ends, length of thread 45 mm,  
incl. 2 lock nuts

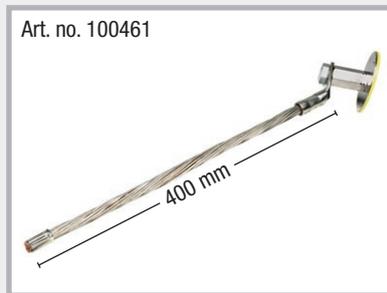
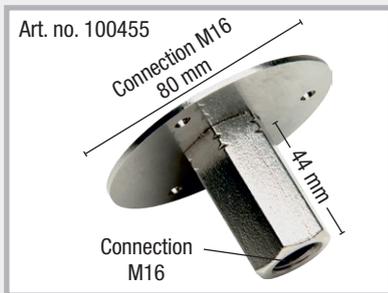


Art. no.	Wall thickness	PU	Weight
<b>100320</b>	200 mm	1 pc.	0.10 kg
<b>100322</b>	240 mm	1 pc.	0.14 kg
<b>100324</b>	250 mm	1 pc.	0.15 kg
<b>100326</b>	300 mm	1 pc.	0.19 kg
<b>100328</b>	350 mm	1 pc.	0.24 kg
<b>100330</b>	365 mm	1 pc.	0.25 kg
<b>100332</b>	400 mm	1 pc.	0.29 kg

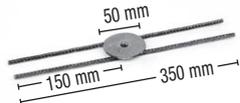
# Fixed earthing terminal M16 and accessories

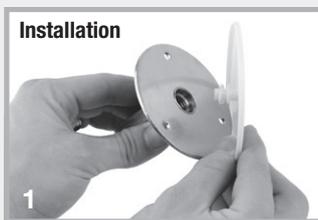
to connect the equipotential bonding conductors to the foundation earth electrode, reinforcement and lightning protection system

Art. no.	Description	PU	Weight
100455	<b>Fixed earthing terminal M16, V4A stainless steel without axis with yellow protective cap</b> Connection M16	Carton of 10 pcs.	2.00 kg per carton
100461	<b>Fixed earthing terminal M16, V4A stainless steel with flexible connection cable</b> Connection conductor CU/SN 95 mm <sup>2</sup> Conductor length 400 mm	1 pc.	0.75 kg per pc.
100458	<b>Cross clamp for fixed earthing terminal M16, V4A stainless steel</b> Thread M16, round 8 + 10 mm flat up to 40 mm, thread length 30 mm	Carton of 10 pcs.	3.20 kg per carton



## Accessories for fixed earthing terminal

Art. no.	Description	PU	Weight	
100198	<b>Plastic foam for fixed earthing terminal</b> self-adhesive on one side Ø 76 mm, thickness 20 mm	Bag of 10 pcs.	0.10 kg	
100196	<b>Fixing spider for fixed earthing terminal</b> steel/bright	1 pc.	0.13 kg	



1 Remove protective cap of fixed earthing terminal



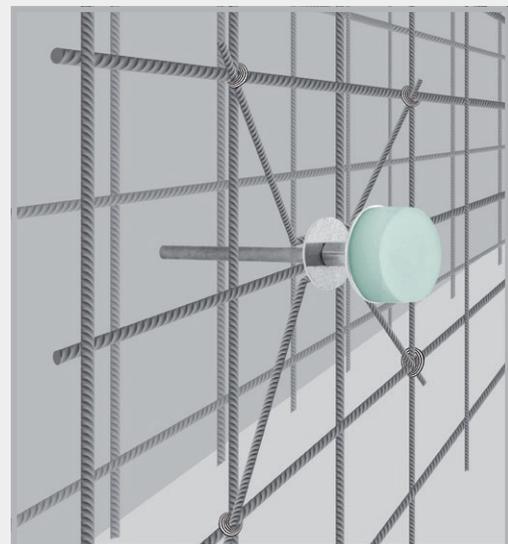
2 Stick on plastic foam



3 Screw axis through the fixing spider and fasten fixed earthing terminal



4 Installation complete



Fixed earthing terminal with fixing spider on the reinforcement



## Terminal lugs

### Round conductor rods, bevelled



Round conductor rods, bevelled

Art. no.	Description	Length	PU	Weight
100555	V4A round conductor Ø 10 mm	1.50 m	Bundle of 10 pcs.	9.40 kg/bundle
100560	V4A round conductor Ø 10 mm	2.00 m	Bundle of 10 pcs.	12.40 kg/bundle
100565	V4A round conductor Ø 10 mm	2.50 m	Bundle of 10 pcs.	15.60 kg/bundle
100570	V4A round conductor Ø 10 mm	3.00 m	Bundle of 10 pcs.	18.80 kg/bundle

## RONDO

### Sealing collars for lightning protection wire and earthing strap



RONDO sealing collars form pressure water-tight seals for lightning protection wires and earthing straps passing through concrete walls, floor slabs and shafts.

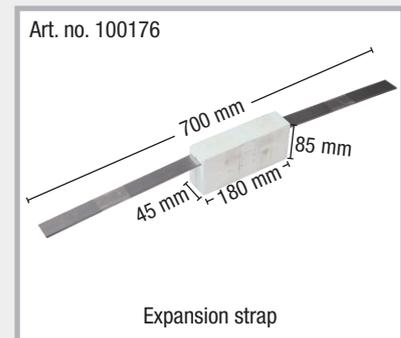
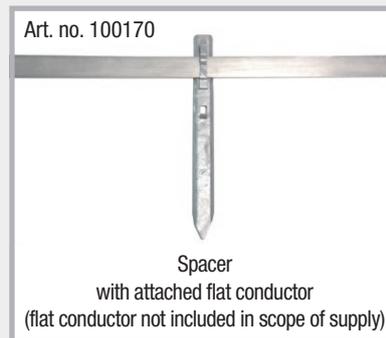
Art. no.	Description	PU	Secondary packaging	Weight
090890	<b>RONDO RO 10</b> for lightning protection conductor 8 + 10 mm	1 pc.	Carton of 100 pcs.	0.13 kg
090892	<b>RONDO RO flat</b> for earthing strap 30x3.5 + 30x3.0 mm	1 pc.		0.17 kg
090988	<b>RONDO EFP</b> for hexagon fixed earthing terminal	1 pc.	Bag of 25 pcs.	0.04 kg



The sealing collars are supplied with fastening straps, ready for installation

## Accessories

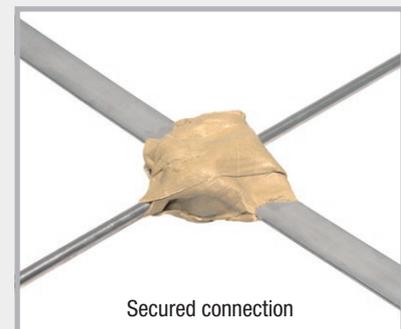
Art. no.	Description	PU	Weight
100165	<b>Profiled earth rod, 1.5 m long, galvanised</b> cross profile 50 x 50 mm with cross clamp welded on	1 pc.	4.30 kg per pc.
100170	<b>Spacer for foundation earth electrode</b> galvanised, for round conductors Ø 8-10 mm earthing strap 30 x 3.5 mm length 280 mm, installation spacing 1-1.5 m	Carton of 100 pcs.	10.30 kg per carton
100176	<b>Expansion strap with polystyrene body, V2A</b> Routing of foundation earth electrode through expansion joints	1 pc.	0.68 kg per pc.



## Anti-corrosive tapes

for wrapping of overground and underground connections

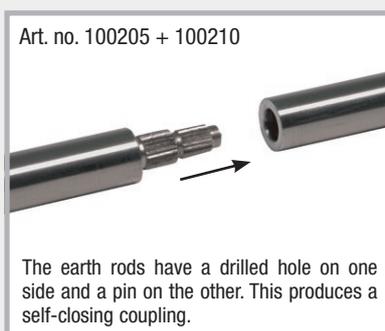
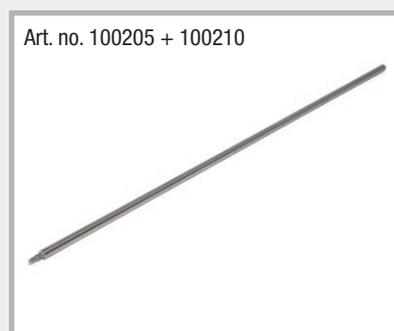
Art. no.	Description	PU	Weight
	<b>Anti-corrosive tapes</b> Roll length 10 m certified by DVGW		
100190	Size: 1.5 x 50 mm	Carton of 24 rolls	1.00 kg/roll
100193	Size: 1.5 x 100 mm	Carton of 12 rolls	2.10 kg/roll



# Earth rod

for use in earthing systems

Art. no.	Design	PU	Weight
100205	<b>Earth rod for the installation of earthing systems</b> Galvanised Length: 1500 mm Ø 20 mm	1 pc.	3.60 kg per pc.
100210	<b>Earth rod for the installation of earthing systems</b> V4A stainless steel Length: 1500 mm Ø 20 mm	1 pc.	3.60 kg per pc.
100215	<b>Impact tip to drive in the first earth rod</b> bright steel	1 pc.	0.04 kg per pc.
100216	<b>Drive-in aid for earth rod</b> bright steel	1 pc.	0.55 kg per pc.
100218	<b>Connecting clamp for earth rod</b> Galvanised round 8 + 10 mm flat up to 40 mm	1 pc.	0.38 kg per pc.
100217	<b>Connecting clamp for earth rod</b> V4A stainless steel round 8 + 10 mm flat up to 40 mm	1 pc.	0.30 kg per pc.

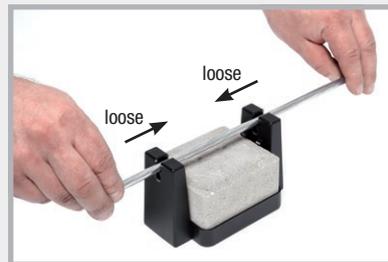
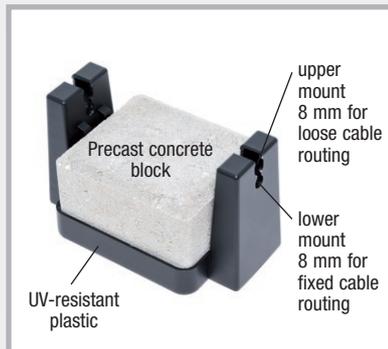


# MultiClip roof conductor holder

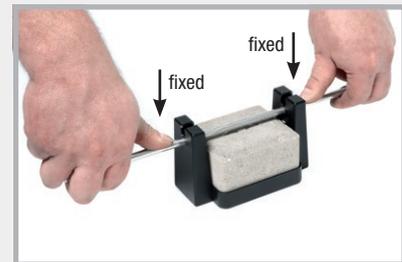
for loose and fixed wire routing

Art. no.	Design	PU	Secondary packaging	Weight	
100470	<b>MultiClip roof conductor holder for flat roofs</b> mount 8 mm holder made of UV-resistant plastic stone made of concrete	10 pcs.	1000 pcs. per pallet	1.00 kg per pc.	 Roof conductor holder

## Product description

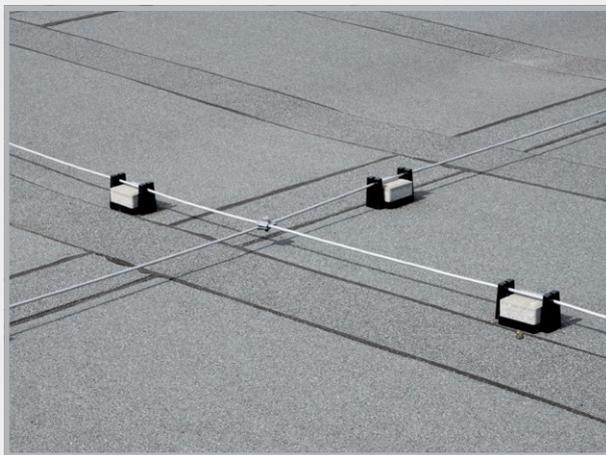


Pushing the round conductor into the upper mount. The wire is locked in place but can be moved.



Pushing the wire through into the lower mount. The wire is permanently locked in place.

## At the construction site



# Basic principles of the installation of lightning protection conductors and connectors

## FOUNDATION EARTH ELECTRODE

Installation location: In the concrete of the foundation and floor slab with minimum of 5 cm concrete cover on all sides

Material: Galvanised or non-galvanised steel as flat conductor 30 x 3.5 mm or round conductor DN 10 mm

## CONNECTION PARTS ON FOUNDATION EARTH ELECTRODE

Installation location: In subsoil

Material: A4 stainless steel material grades 1.4401, 1.4404, 1.4571  
Flat conductor 30 x 3.5 mm or round conductor DN 10 mm

## RING EARTH ELECTRODE AND CONNECTION PARTS ON RING EARTH ELECTRODE

Installation location: Outside the foundation in the subsoil

Material: A4 stainless steel material grades 1.4401, 1.4404, 1.4571 as  
30 x 3.5 mm flat conductor or DN 10 mm round conductor  
**Galvanised material is not permitted in this area**

## CONNECTORS

Installation location: In subsoil, connectors made of A4 stainless steel, galvanised in foundation

Design: Wedge connectors are not permitted: unless installed in non-vibrated concrete

4 x M6 screws above ground only and for arrester lines and down conductors

4 x M8 or 2 x M10 screws and M10 multi-purpose connecting clamp for use in the following areas: subsoil, concrete, above ground, down conductors and arrester lines.

**DIN STANDARDS** DIN EN 62561-1 and 62561-2

**COSTS** The cost of stainless steel round conductors is up to 33% less than stainless steel flat conductors. The round conductor, which can be installed as an alternative to the flat conductor, is easier to handle and therefore has a significantly higher workability.





**LIGHTNING PROTECTION CONDUCTORS**

**CONNECTORS**

**CONNECTING CLAMPS**

**FIXED EARTHING TERMINALS**

**WALL BUSHINGS**

**EARTH RODS**

**MASTERTEC GmbH & Co. KG**  
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