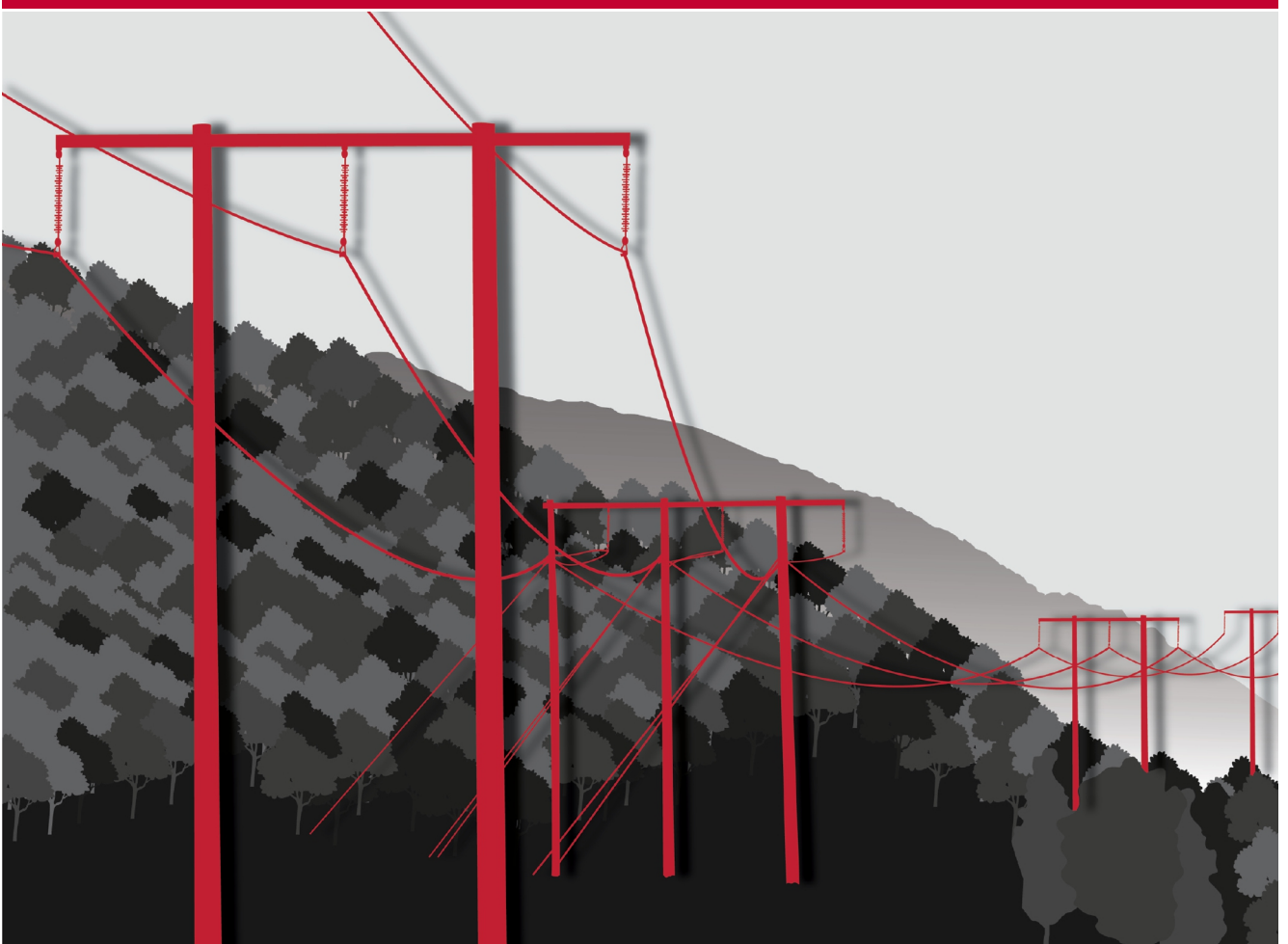




*Quality products made in Norway for rough climatic situations*

# ALUMINIUM CROSS BARS

## 66-132kV

August 2023

## ALUMINIUM CROSS BARS 66-132kV

### USAGE

Aluminum crossbars have the same usage as crossbars made of wood or steel.

With various types of attachment, they can be mounted on all types of poles; wood, composite, aluminum and steel.

### ANODIZED ALUMINIUM CROSSBARS AS STANDARD

All crossbars made by EL-tjeneste AS are anodized with a dark brown color, this helps corrosion resistance and make them less visible in surrounding environment. The color is UV resistant and reduces light reflection.

### ANODIZING

By using the correct material in attached components, aluminum is the best alternative for use in crossbars. When exposed to air, aluminum will form a protective layer of oxide. This means that it is a well suited for material where cutting or drilling is needed. To further improve corrosion and wear resistance, anodizing will increase the thickness of the natural oxide layer.

Since the layer of oxide is an integrated part of the material, it can handle rougher use and is less prone for corrosion in harsh climate.

EL-tjeneste AS delivers anodized crossbars with a minimum thickness of 15my.

Some of the benefits of using anodized crossbars:

- Environmentally friendly, suitable for recycling.
- Corrosion resistance
- Esthetics
- Blends in with the surroundings

### USE IN CORROSIVE ENVIROMENT

Special considerations must be taken when used in corrosive environment. Grease can prevent moisture between materials and connection points. See [www.el-tjeneste.no](http://www.el-tjeneste.no) for more information.

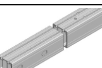
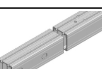
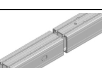
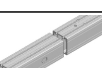
### CROSSBAR ARRANGEMENT AND DATASHEET

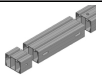
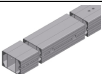
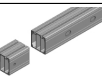
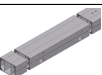
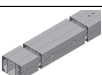
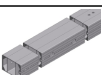
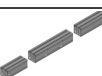
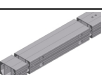
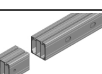
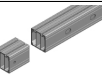
On our webpage [www.el-tjeneste.no](http://www.el-tjeneste.no) arrangement of the various crossbars, accessories and datasheet can be found. This can be downloaded and is useful during the projecting phase.

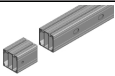
Each product has a label with a QR-code, this will lead to the product on the webpage.

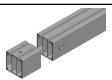
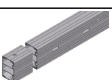
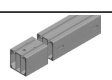
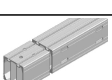
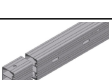
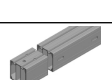
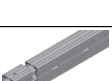
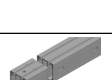
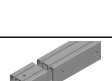
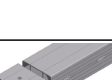
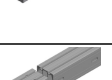
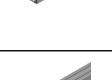
### ALUMINIUM PRODUCTS USED IN POWER TRANSMISSION AND DISTRIBUTION

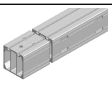
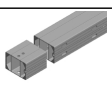
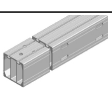
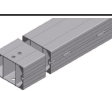
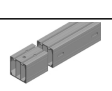
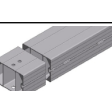
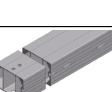
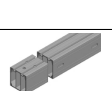
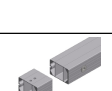
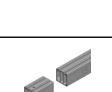
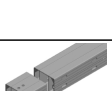
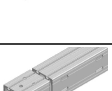
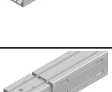
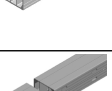
EL-tjeneste AS has delivered aluminum crossbars since 1996, they a have well proven durability. In Norway it has become the most common material for use in crossbars.

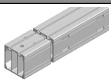
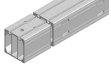
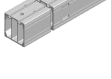
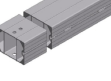
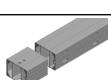
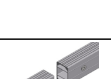
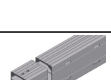
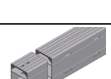
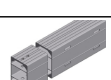
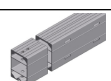
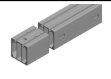
| El-no   | Name                           | Description                                                                                                                                                                    | Unit | Picture                                                                               |
|---------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836452 | AL-Washer SA120-22             | Washer length 120mm. Hole 1xØ22mm.<br>Important: always to be used to the crossbar together with pole clamp.                                                                   | PCS  |    |
| 2837482 | Anch. crossbar T3A-3030-34-3S  | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm.                      | PCS  |    |
| 2837445 | Anch. crossbar T3A-3030BH-3S   | Anchoring crossbar for 3-pole.<br>For overhead shield wires.<br>Pole distance 3m, phase distance 3m.<br>Bolted connection M24.                                                 | PCS  |    |
| 2836709 | Anch. crossbar T3A-33-3S       | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                      | PCS  |    |
| 2836635 | Anch. crossbar T3A-4545-42-8S  | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 420mm.                  | PCS  |    |
| 2836780 | Anch. crossbar T3A-4545-8S     | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                  | PCS  |  |
| 2836440 | Anch. crossbar T3A-4545D-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |  |
| 2836444 | Anch. crossbar T3A-4545D-42-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |  |
| 2836417 | Anch. crossbar T3A-4545D-8S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |  |
| 2836671 | Anch. crossbar T3A-5050D-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm.     | PCS  |  |
| 2836655 | Anch. crossbar T3A-5050D-8S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.     | PCS  |  |
| 2836708 | Anch. crossbar T3AO-33-3S      | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.   | PCS  |  |

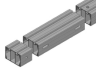
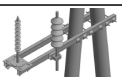
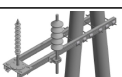
| El-no   | Name                               | Description                                                                                                                                                                                                                                                  | Unit | Picture                                                                               |
|---------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836779 | Anch. crossbar T3AO-4545-3S        | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                      | PCS  |    |
| 2836788 | Anch. crossbar T3AO-4545-7S        | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                      | PCS  |    |
| 2836785 | Anch. crossbar T3AO-4545-8S        | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                      | PCS  |    |
| 2836798 | Anch. crossbar<br>T3AO-4545D-7S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm.     | PCS  |    |
| 2836483 | Anch. crossbar<br>T3AO-5050-42-7S  | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar included fasteners and support brackets for the middle pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm. | PCS  |  |
| 2836786 | Anch. crossbar T3AO-5050-7S        | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                          | PCS  |  |
| 2837444 | Anch. crossbar<br>T3AO-5050D-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                          | PCS  |  |
| 2836799 | Anch. crossbar<br>T3AO-5050D-7S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop. Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.         | PCS  |  |
| 2837499 | Anch. crossbar<br>T3AOE-3030-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm.                                                                                 | PCS  |  |
| 2836456 | Anch. crossbar<br>T3AOE-4545-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 340mm.                                                                             | PCS  |  |

| El-no   | Name                                | Description                                                                                                                                                                                       | Unit | Picture                                                                               |
|---------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836443 | Anch. crossbar<br>T3AOE-4545-42-8S  | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 420mm.                  | PCS  |    |
| 2857828 | Anch. crossbar<br>T3AOE-4545BH-7S   | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4.5m, phase distance 4.5m.<br>Bolted connection M24.                       | PCS  |    |
| 2837421 | Anch. crossbar<br>T3AOE-4545BH-8S   | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Bolted connection M24.                       | PCS  |    |
| 2836438 | Anch. crossbar<br>T3AOE-4545D-34-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |    |
| 2836439 | Anch. crossbar<br>T3AOE-4545D-42-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |    |
| 2836431 | Anch. crossbar<br>T3AOE-4545D-8S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |  |
| 2836413 | Anch. crossbar<br>T3AOE-5050-7S     | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                      | PCS  |  |
| 2837414 | Anch. crossbar<br>T3AOE-5050BH-8S   | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                           | PCS  |  |
| 2836458 | Anch. crossbar<br>T3AOE-5050D-50-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm.     | PCS  |  |
| 2836460 | Anch. crossbar<br>T3AOE-5050D-58-7S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 580mm.     | PCS  |  |
| 2836459 | Anch. crossbar<br>T3AOE-5050D-58-8S | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 580mm.     | PCS  |  |
| 2836457 | Anch. crossbar<br>T3AOE-5050D-8S    | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.     | PCS  |  |

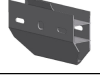
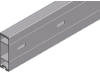
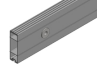
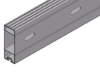
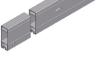
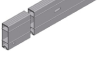
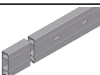
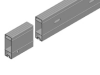
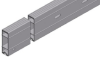
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|---------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2837446 | Anch. crossbar TA3030-34-3S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm.                  | PCS  |    |
| 2837447 | Anch. crossbar TA3030BH-8S  | Anchoring crossbar for H/A-pole.<br>Pole distance 3m, phase distance 3m.<br>Bolted connection M24                                            | PCS  |    |
| 2836703 | Anch. crossbar TA33-3S      | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                  | PCS  |    |
| 2836711 | Anch. crossbar TA33-8S      | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                  | PCS  |    |
| 2836415 | Anch. crossbar TA33D-8S     | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836490 | Anch. crossbar TA4545-34-3S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 340mm.              | PCS  |    |
| 2836699 | Anch. crossbar TA4545-34-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 340mm.              | PCS  |   |
| 2836717 | Anch. crossbar TA4545-3S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.              | PCS  |  |
| 2836489 | Anch. crossbar TA4545-50-3S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 500mm.              | PCS  |  |
| 2836492 | Anch. crossbar TA4545-50-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 500mm.              | PCS  |  |
| 2836493 | Anch. crossbar TA4545-58-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 580mm.              | PCS  |  |
| 2836718 | Anch. crossbar TA4545-7S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.              | PCS  |  |
| 2836728 | Anch. crossbar TA4545-8S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.              | PCS  |  |
| 2837458 | Anch. crossbar TA4545BH-7S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Bolted connection M24.                   | PCS  |  |
| 2837498 | Anch. crossbar TA4545BH-8S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Bolted connection M24.                   | PCS  |  |

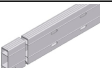
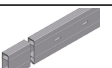
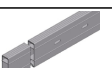
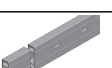
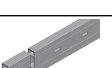
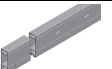
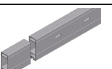
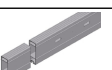
| El-no   | Name                         | Description                                                                                                                                      | Unit | Picture                                                                               |
|---------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836765 | Anch. crossbar TA4545D-3S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836429 | Anch. crossbar TA4545D-42-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |    |
| 2836766 | Anch. crossbar TA4545D-7S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836767 | Anch. crossbar TA4545D-8S    | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836405 | Anch. crossbar TA5050-34-7S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                      | PCS  |    |
| 2836401 | Anch. crossbar TA5050-34-8S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                      | PCS  |    |
| 2836421 | Anch. crossbar TA5050-42-7S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm.                      | PCS  |   |
| 2836726 | Anch. crossbar TA5050-7S     | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                      | PCS  |  |
| 2836729 | Anch. crossbar TA5050-8S     | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                      | PCS  |  |
| 2837404 | Anch. crossbar TA5050BH-7S   | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                           | PCS  |  |
| 2837402 | Anch. crossbar TA5050BH-8S   | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                           | PCS  |  |
| 2836678 | Anch. crossbar TA5050D-34-7S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm.     | PCS  |  |
| 2836649 | Anch. crossbar TA5050D-34-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm.     | PCS  |  |
| 2836650 | Anch. crossbar TA5050D-42-8S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 420mm.     | PCS  |  |
| 2836462 | Anch. crossbar TA5050D-50-7S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm.     | PCS  |  |

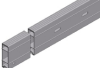
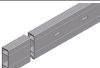
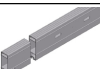
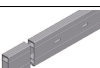
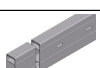
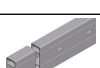
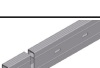
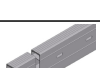
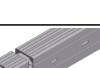
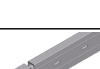
| El-no   | Name                             | Description                                                                                                                                                   | Unit | Picture                                                                               |
|---------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836673 | Anch. crossbar<br>TA5050D-50-8S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm.                  | PCS  |    |
| 2836463 | Anch. crossbar<br>TA5050D-58-7S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 580mm.                  | PCS  |    |
| 2836461 | Anch. crossbar<br>TA5050D-58-8S  | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 580mm.                  | PCS  |    |
| 2836773 | Anch. crossbar TA5050D-7S        | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.                  | PCS  |    |
| 2836774 | Anch. crossbar TA5050D-8S        | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.                  | PCS  |    |
| 2837481 | Anch. crossbar<br>TAF3030D-34-7S | Anchoring crossbar for one-sided and two-sided<br>connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |   |
| 2836704 | Anch. crossbar TAF33-7S          | Anchoring crossbar for one-sided and two-sided<br>connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                  | PCS  |  |
| 2836761 | Anch. crossbar TAF33D-7S         | Anchoring crossbar for one-sided and two-sided<br>connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |  |
| 2837403 | Anch. crossbar TAS5050BH-7S      | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                                        | PCS  |  |
| 2836651 | Anch. crossbar<br>TAS5050D-34-7S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm.                  | PCS  |  |
| 2836652 | Anch. crossbar<br>TAS5050D-42-7S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 420mm.                  | PCS  |  |
| 2836674 | Anch. crossbar<br>TAS5050D-50-7S | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm.                  | PCS  |  |
| 2836608 | Anch. crossbar TAS5050D-7S       | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm.                  | PCS  |  |
| 2837483 | Anch. crossbar TA3030-34-8S      | Anchoring crossbar for two-sided connection. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm.                                   | PCS  |  |

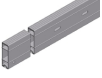
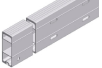
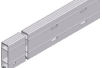
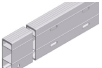
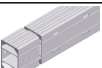
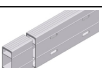
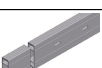
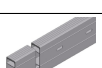
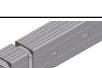
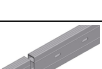
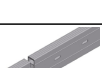
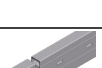
| El-no   | Name                                   | Description                                                                                                                                                                  | Unit | Picture                                                                               |
|---------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2837720 | Anch.crossbar<br>T3AO-3030-34-3S       | Anchoring crossbar for two-sided connection. 3-pole.<br>For overhead shield wires and face wire loop.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm. | PCS  |    |
| 2836738 | Angle brace VB                         | Angle brace for crossbar T3V, profile P4 and P5                                                                                                                              | SET  |    |
| 2836660 | Antiskid SKK-1-24                      | Antiskid for poles. 1xM24.                                                                                                                                                   | PCS  |    |
| 2836658 | Antiskid SKK-2-20                      | Antiskid for poles. 2xM20.                                                                                                                                                   | PCS  |    |
| 2836455 | Antiskid SKK-2-24                      | Antiskid for poles. 2xM24.                                                                                                                                                   | PCS  |    |
| 2837752 | Arr. for surge arresters<br>SB132AD-60 | Arrangement for surge arresters 132kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø60-84.                                                             | PCS  |    |
| 2837762 | Arr. for surge arresters<br>SB132AD-75 | Arrangement for surge arresters 132kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø75-100.                                                            | PCS  |    |
| 2837747 | Arr. for surge arresters<br>SB132AE-60 | Arrangement for surge arresters 132kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable ø60-84.                                                             | PCS  |   |
| 2837754 | Arr. for surge arresters<br>SB132AE-75 | Arrangement for surge arresters 132kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable ø75-100.                                                            | PCS  |  |
| 2837745 | Arr. for surge arresters<br>SB66AD-22  | Arrangement for surge arresters 66kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø22-42.                                                              | PCS  |  |
| 2837759 | Arr. for surge arresters<br>SB66AD-42  | Arrangement for surge arresters 66kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø42-60.                                                              | PCS  |  |
| 2837760 | Arr. for surge arresters<br>SB66AD-60  | Arrangement for surge arresters 66kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø60-84.                                                              | PCS  |  |
| 2837761 | Arr. for surge arresters<br>SB66AD-75  | Arrangement for surge arresters 66kV.<br>For 3 poles. Two-sided.<br>A-wood poles 1-5, height 13m. Cable ø75-100.                                                             | PCS  |  |
| 2837746 | Arr. for surge arresters<br>SB66AE-22  | Arrangement for surge arresters 66kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable ø22-42.                                                              | PCS  |  |
| 2837756 | Arr. for surge arresters<br>SB66AE-42  | Arrangement for surge arresters 66kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable ø42-60.                                                              | PCS  |  |
| 2837757 | Arr. for surge arresters<br>SB66AE-60  | Arrangement for surge arresters 66kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable 60-84.                                                               | PCS  |  |
| 2837758 | Arr. for surge arresters<br>SB66AE-75  | Arrangement for surge arresters 66kV.<br>For 3 poles. One-sided.<br>A-wood poles 1-5, height 13m. Cable ø75-100.                                                             | PCS  |  |

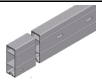
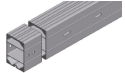
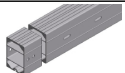
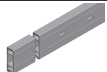
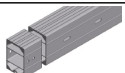
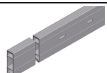
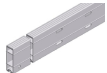
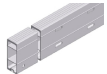
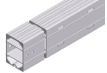
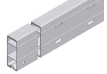
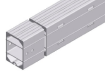
| El-no   | Name                      | Description                                                                                                                                                          | Unit | Picture                                                                               |
|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836434 | Arrester bracket AFE66    | For mounting of arrester or insulator on pole.<br>Mounting horizontal with 2 pole clamps.<br>Pole-diameter 240-330mm.<br>Arrester/insulator dimension sketch needed. | PCS  |    |
| 2836409 | Crossbar support ST107-34 | Support for crossbar width 107mm.<br>Oblong hole distance 340mm.                                                                                                     | PCS  |    |
| 2836442 | Crossbar support ST107-42 | Support for crossbar width 107mm.<br>Oblong hole distance 420mm.                                                                                                     | PCS  |    |
| 2836445 | Crossbar support ST107-50 | Support for crossbar width 107mm.<br>Oblong hole distance 500mm.                                                                                                     | PCS  |    |
| 2836746 | Crossbar support ST107S   | Support for crossbar width 107mm.<br>Oblong hole distance 280mm.                                                                                                     | PCS  |    |
| 2836407 | Crossbar support ST160-34 | Support for crossbar width 160mm.<br>Oblong hole distance 340mm.<br>Always to be used with crossbar profile 7 (160x230).                                             | PCS  |    |
| 2836427 | Crossbar support ST160-42 | Support for crossbar width 160mm.<br>Oblong hole distance 420mm.<br>Always to be used with crossbar profile 7 (160x230).                                             | PCS  |   |
| 2836428 | Crossbar support ST160-50 | Support for crossbar width 160mm.<br>Oblong hole distance 500mm.<br>Always to be used with crossbar profile 7 (160x230).                                             | PCS  |  |
| 2836494 | Crossbar support ST160-58 | Support for crossbar width 160mm.<br>Oblong hole distance 580mm.<br>Always to be used with crossbar profile 7 (160x230).                                             | PCS  |  |
| 2836732 | Crossbar support ST160S   | Support for crossbar width 160mm.<br>Oblong hole distance 580mm.<br>Always to be used with crossbar profile 7 (160x230).                                             | PCS  |  |
| 2836408 | Crossbar support ST230-34 | Support for crossbar width 230mm.<br>Oblong hole distance 340mm.<br>Always to be used with crossbar profile 7 (230x160).                                             | PCS  |  |
| 2836425 | Crossbar support ST230-42 | Support for crossbar width 230mm.<br>Oblong hole distance 420mm.<br>Always to be used with crossbar profile 7 (230x160).                                             | PCS  |  |
| 2836426 | Crossbar support ST230-50 | Support for crossbar width 230mm.<br>Oblong hole distance 500mm.<br>Always to be used with crossbar profile 7 (230x160).                                             | PCS  |  |
| 2836745 | Crossbar support ST230S   | Support for crossbar width 230mm.<br>Oblong hole distance 280mm.<br>Always to be used with crossbar profile 7 (230x160).                                             | PCS  |  |
| 2836406 | Crossbar support ST83-34  | Support for crossbar width 83mm.<br>Oblong hole distance 340mm.                                                                                                      | PCS  |  |
| 2836424 | crossbar support ST83-42  | Support for crossbar width 83mm.<br>Oblong hole distance 420mm.                                                                                                      | PCS  |  |
| 2836411 | crossbar support ST83-50  | Support for crossbar width 83mm.<br>Oblong hole distance 500mm.                                                                                                      | PCS  |  |

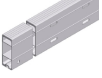
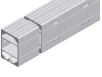
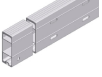
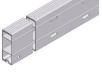
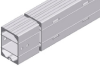
| El-no   | Name                     | Description                                                                                                                                                              | Unit | Picture                                                                               |
|---------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2837476 | Crossbar support ST83-P2 | Support for crossbar width 83mm<br>Space for washer (SA1) and bolt<br>Hole distance 280mm                                                                                | PCS  |    |
| 2836739 | crossbar support ST83S   | Support for crossbar width 83mm.<br>Oblong hole distance 280mm.                                                                                                          | PCS  |    |
| 2836657 | Crossbar T2-50-42-5S     | Crossbar for pole top (H).<br>Pole distance 2m, phase distance 5m<br>Oblong hole distance 420mm.                                                                         | PCS  |    |
| 2836656 | Crossbar T2-50-5S        | Crossbar for pole top (H).<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 280mm.                                                                         | PCS  |    |
| 2837420 | Crossbar T3-3030BH-5S    | Crossbar for three poles.<br>Pole distance 3m, phase distance 3m<br>Bolted connection M24.                                                                               | PCS  |    |
| 2836707 | Crossbar T3-33-4S        | Crossbar for pole top (3E/3A).<br>Pole distance 3m, phase distance 5m<br>Oblong hole distance 280mm.                                                                     | PCS  |    |
| 2836721 | Crossbar T3-4545-5S      | Crossbar for pole top (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m<br>Oblong hole distance 280mm.                                                                 | PCS  |   |
| 2836727 | Crossbar T3-5050-5S      | Crossbar for pole top (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 280mm.                                                                     | PCS  |  |
| 2837417 | Crossbar T3-5050D-5S     | Crossbar for pole top (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Twin pole clamp. Oblong hole distance 280mm.                                                    | PCS  |  |
| 2836705 | Crossbar T3O-33-4S       | Crossbar for face wire loop (3E/3A).<br>Pole distance 3m, phase distance 3m<br>Oblong hole distance 280mm.                                                               | PCS  |  |
| 2836719 | Crossbar T3O-4545-5S     | Crossbar for face wire loop (3E/3A).<br>Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 4,5m, phase distance 4,5m<br>Oblong hole distance 280mm. | PCS  |  |
| 2836720 | Crossbar T3O-5050-5S     | Crossbar for face wire loop (3E/3A).<br>Two-piece crossbar with fasteners for the middle pole.<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 280mm.     | PCS  |  |
| 2837479 | Crossbar T3OE-3030-34-4S | Crossbar for face wire loop (3E/3A).<br>Pole distance 3m, phase distance 3m<br>Oblong hole distance 340mm.                                                               | PCS  |  |
| 2837480 | Crossbar T3OE-3030-42-4S | Crossbar for face wire loop (3E/3A).<br>Pole distance 3m, phase distance 3m<br>Oblong hole distance 420mm.                                                               | PCS  |  |
| 2836422 | Crossbar T3OE-4545-5S    | Crossbar for face wire loop (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m<br>Oblong hole distance 280mm.                                                           | PCS  |  |

| El-no   | Name                      | Description                                                                                                                     | Unit | Picture                                                                               |
|---------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2857829 | Crossbar T3OE-4545BH-5S   | Crossbar for face wire loop (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m.<br>Bolted connection M24.                      | PCS  |    |
| 2836441 | Crossbar T3OE-4545D-34-5S | Crossbar for face wire loop (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |    |
| 2836416 | Crossbar T3OE-4545D-5S    | Crossbar for face wire loop (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836653 | Crossbar T3OE-5050-34-5S  | Crossbar for face wire loop (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Twin pole clamp. Oblong hole distance 340mm.     | PCS  |    |
| 2836675 | Crossbar T3OE-5050-42-5S  | Crossbar for face wire loop (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 420mm.                      | PCS  |    |
| 2836676 | Crossbar T3OE-5050-50-5S  | Crossbar for face wire loop (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 500mm.                      | PCS  |    |
| 2836712 | Crossbar T3OE-5050-5S     | Crossbar for face wire loop (3E/3A).<br>Pole distance 5m, phase distance 5m<br>Oblong hole distance 280mm.                      | PCS  |  |
| 2837409 | Crossbar T3OE-5050BH-5S   | Crossbar for face wire loop (3E/3A).<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                          | PCS  |  |
| 2836706 | Crossbar T3V-33-4S        | Crossbar angle (3E/3A).<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                                  | PCS  |  |
| 2836713 | Crossbar T3V-4545-5S      | Crossbar angle (3E/3A).<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                              | PCS  |  |
| 2836714 | Crossbar T3V-5050-5S      | Crossbar angle (3E/3A).<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                                  | PCS  |  |
| 2836433 | Draw bracket OPB-1-26     | Draw bracket for crossbars                                                                                                      | PCS  |  |
| 2836836 | Earthing clamp J10        | Earthing clamp M10.<br>For all crossbars except cable cross bars.                                                               | PCS  |  |
| 2836837 | Earthing clamp J10V       | Earthing clamp M10 90-degree.<br>For all crossbars except cable cross bars.<br>For earth wire KHF25-50.                         | PCS  |  |
| 2836467 | Fastening angle FVT-P5    | Fastening angle for crossbar with aluminium profile P5.<br>For mounting crossbar on top of top bracket TFK1-5.                  | PCS  |  |
| 2836466 | Fastening angle FVT-P8    | Fastening angle for crossbar with aluminium profile P8.<br>For mounting crossbar on top of top bracket TFK1-5.                  | PCS  |  |
| 2836808 | Insulator bracket PF160   | Insulator bracket for crossbars 160x160mm.<br>With fasteners.                                                                   | PCS  |  |

| El-no   | Name                              | Description                                                                                                                   | Unit | Picture                                                                               |
|---------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2837429 | Insulator bracket FAS-107R        | Insulator bracket.<br>For crossbar P3, width 107mm.<br>For mounting of overvoltage surge arrester or insulator onto crossbar. | PCS  |    |
| 2837439 | Load-bearing crossbar T3030-34-5S | Load-bearing crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 340mm.                         | PCS  |    |
| 2837478 | Load-bearing crossbar T3030-42-5S | Load-bearing crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 420mm.                         | PCS  |    |
| 2836700 | Load-bearing crossbar T33-4S      | Load-bearing crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                         | PCS  |    |
| 2836701 | Load-bearing crossbar T33-5S      | Load-bearing crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                         | PCS  |    |
| 2836702 | Load-bearing crossbar T33-6S      | Load-bearing crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>Oblong hole distance 280mm.                         | PCS  |    |
| 2836482 | Load-bearing crossbar T4545-34-6S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 340mm.                     | PCS  |  |
| 2836698 | Load-bearing crossbar T4545-34-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 340mm.                     | PCS  |  |
| 2836486 | Load-bearing crossbar T4545-42-6S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 420mm.                     | PCS  |  |
| 2836488 | Load-bearing crossbar T4545-42-7S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 420mm.                     | PCS  |  |
| 2836491 | Load-bearing crossbar T4545-42-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 420mm.                     | PCS  |  |
| 2836487 | Load-bearing crossbar T4545-50-7S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 500mm.                     | PCS  |  |
| 2836715 | Load-bearing crossbar T4545-5S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                     | PCS  |  |
| 2836716 | Load-bearing crossbar T4545-6S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                     | PCS  |  |
| 2836722 | Load-bearing crossbar T4545-7S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                     | PCS  |  |

| El-no   | Name                                  | Description                                                                                                                     | Unit | Picture                                                                               |
|---------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836783 | Load-bearing crossbar<br>T4545-9S     | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Oblong hole distance 280mm.                       | PCS  |    |
| 2837486 | Load-bearing crossbar<br>T4545BH-9S   | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Bolted connection M24.                            | PCS  |    |
| 2836697 | Load-bearing crossbar<br>T4545D-34-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 340mm.      | PCS  |    |
| 2836762 | Load-bearing crossbar<br>T4545D-5S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm.      | PCS  |    |
| 2836763 | Load-bearing crossbar<br>T4545D-6S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm.      | PCS  |    |
| 2836764 | Load-bearing crossbar<br>T4545D-7S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm.      | PCS  |    |
| 2836768 | Load-bearing crossbar<br>T4545D-9S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>Twin pole clamp. Oblong hole distance 280mm.      | PCS  |  |
| 2836776 | Load-bearing crossbar<br>T4545V-5S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>For angle suspension. Oblong hole distance 280mm. | PCS  |  |
| 2836777 | Load-bearing crossbar<br>T4545V-6S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>For angle suspension. Oblong hole distance 280mm. | PCS  |  |
| 2836778 | Load-bearing crossbar<br>T4545V-7S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>For angle suspension. Oblong hole distance 280mm. | PCS  |  |
| 2836414 | Load-bearing crossbar<br>T4545V-9S    | Load-bearing crossbar. 2-pole.<br>Pole distance 4,5m, phase distance 4,5m.<br>For angle suspension. Oblong hole distance 280mm. | PCS  |  |
| 2837411 | Load-bearing crossbar<br>T5050-34-5S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                           | PCS  |  |
| 2836404 | Load-bearing crossbar<br>T5050-34-6S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                           | PCS  |  |
| 2836418 | Load-bearing crossbar<br>T5050-34-7S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 340mm.                           | PCS  |  |
| 2837412 | Load-bearing crossbar<br>T5050-42-5S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm.                           | PCS  |  |

| El-no   | Name                                  | Description                                                                                                            | Unit | Picture                                                                               |
|---------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2837413 | Load-bearing crossbar<br>T5050-42-6S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm.                  | PCS  |    |
| 2836419 | Load-bearing crossbar<br>T5050-42-7S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm.                  | PCS  |    |
| 2836420 | Load-bearing crossbar<br>T5050-50-7S  | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 420mm.                  | PCS  |    |
| 2836723 | Load-bearing crossbar<br>T5050-5S     | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                  | PCS  |    |
| 2836724 | Load-bearing crossbar<br>T5050-6S     | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                  | PCS  |    |
| 2836725 | Load-bearing crossbar<br>T5050-7S     | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                  | PCS  |    |
| 2836784 | Load-bearing crossbar<br>T5050-9S     | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Oblong hole distance 280mm.                  | PCS  |  |
| 2837401 | Load-bearing crossbar<br>T5050BH-7S   | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                       | PCS  |  |
| 2837400 | Load-bearing crossbar<br>T5050BH-9S   | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Bolted connection M24.                       | PCS  |  |
| 2836809 | Load-bearing crossbar<br>T5050D-34-5S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |  |
| 2836400 | Load-bearing crossbar<br>T5050D-34-6S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |  |
| 2836646 | Load-bearing crossbar<br>T5050D-34-7S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |  |
| 2836644 | Load-bearing crossbar<br>T5050D-34-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 340mm. | PCS  |  |
| 2836430 | Load-bearing crossbar<br>T5050D-42-6S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |  |
| 2836647 | Load-bearing crossbar<br>T5050D-42-7S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |  |

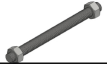
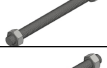
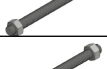
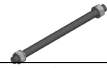
| El-no   | Name                                  | Description                                                                                                            | Unit | Picture                                                                               |
|---------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836645 | Load-bearing crossbar<br>T5050D-42-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 420mm. | PCS  |    |
| 2836648 | Load-bearing crossbar<br>T5050D-50-7S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm. | PCS  |    |
| 2836670 | Load-bearing crossbar<br>T5050D-50-9S | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 500mm. | PCS  |    |
| 2836775 | Load-bearing crossbar<br>T5050D-5S    | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836770 | Load-bearing crossbar<br>T5050D-6S    | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836771 | Load-bearing crossbar<br>T5050D-7S    | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |    |
| 2836772 | Load-bearing crossbar<br>T5050D-9S    | Load-bearing crossbar. 2-pole.<br>Pole distance 5m, phase distance 5m.<br>Twin pole clamp. Oblong hole distance 280mm. | PCS  |  |
| 2836862 | Phase bracket B107E                   | Phase stirrup bracket one-sided anchor.<br>Suits crossbar P3, width 107.<br>Unit set of 3.                             | SET  |  |
| 2836866 | Phase bracket B107EA                  | Phase stirrup bracket one-sided.<br>Suits crossbar TFA1S.<br>Unit set of 3.                                            | SET  |  |
| 2836863 | Phase bracket B107T                   | Phase stirrup bracket two-sided anchor.<br>Suits crossbar P3, width 107.<br>Unit set of 3.                             | SET  |  |
| 2836865 | Phase bracket B107TA                  | Phase stirrup bracket two-sided.<br>Suits crossbar P1, width 107.<br>Unit set of 3.                                    | SET  |  |
| 2836864 | Phase bracket B120TA                  | Phase stirrup bracket two-sided.<br>Suits crossbar P2, width 120.<br>Unit set of 3.                                    | SET  |  |
| 2836847 | Phase bracket B160-8E                 | Phase stirrup bracket one-sided.<br>Suits crossbar P3, P8, width 160.<br>Unit set of 3.                                | SET  |  |
| 2836851 | Phase bracket B160-8T                 | Phase stirrup bracket two-sided.<br>Suits crossbar P3, P8, width 160.                                                  | SET  |  |
| 2836743 | Phase bracket B160T2                  | Phase stirrup bracket two-sided for toppline.<br>Suits crossbar P3, P8, width 160.<br>Unit set of 2.                   | SET  |  |

| El-no   | Name                     | Description                                                                                                                           | Unit | Picture                                                                               |
|---------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836860 | Phase bracket B80E       | Phase stirrup bracket one-sided.<br>Suits crossbar P2, width 80.<br>Unit set of 3.                                                    | SET  |    |
| 2836861 | Phase bracket B80T       | Phase stirrup bracket two-sided.<br>Suits crossbar P2, width 80.<br>Unit set of 3.                                                    | SET  |    |
| 2836867 | Phase bracket BE80T      | Phase stirrup bracket two-sided with pole clamp.<br>Suits crossbar TFE6S.<br>Unit set of 3.                                           | SET  |    |
| 2836730 | Phase bracket BH65       | Phase stirrup bracket.<br>For crossbar P4, P5, width 65.<br>Unit set of 3.                                                            | SET  |    |
| 2836747 | Phase bracket F160-3TA   | Phase bracket two-sided.<br>For crossbar P3 width 160.<br>Unit set of 3.                                                              | SET  |    |
| 2836733 | Phase bracket F160-8E    | anchorsfeste one-sided.<br>For crossbar P8, width 160.<br>Unit set of 3.                                                              | SET  |   |
| 2836640 | Phase bracket F160-8E2   | anchorsfeste one-sided.<br>For crossbar P8, width 160.<br>Unit set of 2.                                                              | SET  |  |
| 2836749 | Phase bracket F160-8TA   | Phase bracket two-sided.<br>For crossbar P8, width 160.<br>Unit set of 3.                                                             | SET  |  |
| 2836735 | Phase bracket F160T      | Anchor bracket . two-sided.<br>For crossbar P7, width 160.<br>Unit set of 3.                                                          | SET  |  |
| 2836797 | Phase bracket F160T2     | Phase bracket . two-sided.<br>For crossbar P7, width 160.<br>Unit set of 2.                                                           | SET  |  |
| 2836412 | Phase bracket F230E      | Phase bracket . one-sided.<br>For crossbar P7, width 230.<br>Unit set of 3.                                                           | SET  |  |
| 2836609 | Phase bracket F230T      | Phase bracket . two-sided.<br>For crossbar P7, width 230.<br>Unit set of 3.                                                           | SET  |  |
| 2836615 | Phase bracket FFK1-5     | Phase bracket for A-pole 1:5 angle ratio.<br>Distance upper holes: 847mm. For 1 pole.<br>Delivered with square washers without bolts. | PCS  |  |
| 2837442 | Phase bracket FFK1-5-530 | Phase bracket for A-pole 1:5 angle ratio.<br>Distance upper holes: 530mm. For 1 pole.<br>Delivered with square washers without bolts. | PCS  |  |
| 2836742 | Phase bracket FH160E     | Phase bracket .<br>For crossbar P7, width 160.<br>Unit set of 3.                                                                      | SET  |  |

| El-no   | Name                        | Description                                                                                                                                                  | Unit | Picture                                                                               |
|---------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836740 | Phase bracket FH65          | Phase bracket.<br>For crossbar P4, P5, width 65.<br>Unit set of 3.                                                                                           | SET  |    |
| 2836741 | Phase bracket FH83          | Phase bracket .<br>For crossbar P6, width 83.<br>Unit set of 3.                                                                                              | SET  |    |
| 2836781 | Phase bracket FH95          | Phase bracket.<br>For crossbarer P9, width 95.<br>Unit set of 3.                                                                                             | SET  |    |
| 2836789 | Phase bracket FHO160        | Phase bracket for omførings-isolator.<br>For crossbar height max 170mm and bolt M20.<br>Unit set of 3.                                                       | SET  |    |
| 2836744 | Phase/wire bracket FB160    | Phase/wire bracket two-sided.<br>With bolts M20 and bolt distance 182-218mm.                                                                                 | PCS  |    |
| 2836748 | Phase/wire bracket FB200    | Phase/wire bracket two-sided.<br>With bolts M24 and bolt distance 182-218mm.                                                                                 | PCS  |   |
| 2837474 | Phase/wire bracket FB200-3T | Phase/wire bracket two-sided with 3 wire holes.<br>With bolts M24 and bolt distance 182-218mm.                                                               | PCS  |  |
| 2836755 | Phase/wire bracket FBV20    | Phase/wire bracket for an angle of 0-20.                                                                                                                     | PCS  |  |
| 2837426 | Phase/wire bracket FBV20-5B | Phase/wire bracket for an angle of 0-20.<br>5 bolts towards the pole.                                                                                        | PCS  |  |
| 2836756 | Phase/wire bracket FBV40    | Phase/wire bracket for an angle of 20-40.                                                                                                                    | PCS  |  |
| 2837423 | Phase/wire bracket FBV40-5B | Phase/wire bracket for an angle of 20-40.<br>5 bolts towards the pole.                                                                                       | PCS  |  |
| 2836757 | Phase/wire bracket FBV60    | Phase/wire bracket for an angle of 40-60.                                                                                                                    | PCS  |  |
| 2837424 | Phase/wire bracket FBV60-5B | Phase/wire bracket for an angle of 40-80.<br>5 bolts towards the pole.                                                                                       | PCS  |  |
| 2836758 | Phase/wire bracket FBV80    | Phase/wire bracket for an angle of 60-80.                                                                                                                    | PCS  |  |
| 2837425 | Phase/wire bracket FBV80-5B | Phase/wire bracket for an angle of 60-80.<br>5 bolts towards the pole.                                                                                       | PCS  |  |
| 2836613 | Phase/wire bracket FFE160   | Phase/wire bracket one-sided.<br>With bolts M20 and bolt distance 182-218mm.                                                                                 | PCS  |  |
| 2836484 | Phase/wire bracket FFE200   | Phase/wire bracket one-sided.<br>With bolts M24 and bolt distance 182-218mm.                                                                                 | PCS  |  |
| 2837475 | Phase/wire bracket FFE200-3 | Phase/wire bracket one-sided with 3 holes for wires.<br>With bolts M24 and bolt distance 182-218mm.                                                          | PCS  |  |
| 2836752 | Pole clamp MK1624           | Aluminum pole clamp with bolts M20x250.<br>For pole diameter Ø180-200.<br>Selection table with regards to crossbar type and pole diameter is on our website. | PCS  |  |

| El-no   | Name                         | Description                                                                                                                                                                                                                         | Unit | Picture                                                                               |
|---------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836750 | Pole clamp MK1630            | Aluminium pole clamp with bolts M20x350.<br>For pole diameter Ø180-275.<br>Selection table with regards to crossbar type and pole diameter is on our website.                                                                       | PCS  |    |
| 2836754 | Pole clamp MK2432            | Aluminium pole clamp with bolts M20x400.<br>For pole diameter Ø190-280.<br>Selection table with regards to crossbar type and pole diameter is on our website.                                                                       | PCS  |    |
| 2836753 | Pole clamp MK2433            | Aluminium pole clamp with bolts M20x500.<br>For pole diameter Ø240-330.<br>Selection table with regards to crossbar type and pole diameter is on our website.                                                                       | PCS  |    |
| 2836759 | Pole clamp MK3337            | Aluminium pole clamp with bolts M20x600.<br>For pole diameter Ø300-370.<br>Selection table with regards to crossbar type and pole diameter is on our website.                                                                       | PCS  |    |
| 2836690 | Pole clamp MKS2530           | Steel pole clamp for pole diameter Ø250-300mm.<br>Hot-dip galvanzied. For boltsize M20.<br>Bolts, nuts and washers not included.<br>Selection table with regards to bolt length, crossbar type and pole diameter is on our website. | PCS  |   |
| 2836691 | Pole clamp MKS3035           | Steel pole clamp for pole diameter Ø300-350mm.<br>Hot-dip galvanzied. For boltsize M20.<br>Bolts, nuts and washers not included.<br>Selection table with regards to bolt length, crossbar type and pole diameter is on our website. | PCS  |  |
| 2836617 | Pole clamp MKS3544           | Steel pole clamp for pole diameter Ø350-440mm.<br>Hot-dip galvanzied. For boltsize M20.<br>Bolts, nuts and washers not included.<br>Selection table with regards to bolt length, crossbar type and pole diameter is on our website. | PCS  |  |
| 2836618 | Pole clamp MKS4453           | Steel pole clamp for pole diameter Ø440-530mm.<br>Hot-dip galvanzied. For boltsize M20.<br>Bolts, nuts and washers not included.<br>Selection table with regards to bolt length, crossbar type and pole diameter is on our website. | PCS  |  |
| 2836665 | Pole clamp MKS5360           | Steel pole clamp for pole diameter Ø530-600mm.<br>Hot-dip galvanzied. For boltsize M20.<br>Bolts, nuts and washers not included.<br>Selection table with regards to bolt length, crossbar type and pole diameter is on our website. | PCS  |  |
| 2836410 | Pole diagonal cross STK17-20 | Pole diagonal cross for wood and composite poles.<br>Pole distance: 1,7m.<br>Fixing bracket 4xØ26mm.<br>Fasteners not included.                                                                                                     | PCS  |  |
| 2836616 | Pole diagonal cross STK19    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 1,9m.<br>Fixing bracket 2xØ26mm.<br>Fasteners not included.                                                                                                     | PCS  |  |

| El-no   | Name                         | Description                                                                                                                     | Unit | Picture                                                                               |
|---------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836792 | Pole diagonal cross STK20    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 2m.<br>Fixing bracket 2xØ22mm.<br>Fasteners not included.   | PCS  |    |
| 2837441 | Pole diagonal cross STK25    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 2,5m.<br>Fixing bracket 2xØ22mm.<br>Fasteners not included. | PCS  |    |
| 2836793 | Pole diagonal cross STK30    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 3m.<br>Fixing bracket 2xØ26mm.<br>Fasteners not included.   | PCS  |    |
| 2836666 | Pole diagonal cross STK30-20 | Pole diagonal cross for wood and composite poles.<br>Pole distance: 3m.<br>Fixing bracket 4xØ26mm.<br>Fasteners not included.   | PCS  |    |
| 2836794 | Pole diagonal cross STK45    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 4,5m.<br>Fixing bracket 2xØ26mm.<br>Fasteners not included. | PCS  |    |
| 2836681 | Pole diagonal cross STK45-20 | Pole diagonal cross for wood and composite poles.<br>Pole distance: 4,5m.<br>Fixing bracket 4xØ26mm.<br>Fasteners not included. | PCS  |  |
| 2836795 | Pole diagonal cross STK50    | Pole diagonal cross for wood and composite poles.<br>Pole distance: 5m.<br>Fixing bracket 2xØ26mm.<br>Fasteners not included.   | PCS  |  |
| 2836643 | Pole diagonal cross STK50-20 | Pole diagonal cross for wood and composite poles.<br>Pole distance: 5m.<br>Fixing bracket 4xØ26mm.<br>Fasteners not included.   | PCS  |  |
| 2836685 | Stay wire adapter AB-FBV     | Stay wire adapter for phase/wire bracket FBV.                                                                                   | PCS  |  |
| 2836632 | Stud bolt M20 GB1000         | Stud bolt M20x1000 with nuts.                                                                                                   | PCS  |  |
| 2836620 | Stud bolt M20 GB250          | Stud bolt M20x250 with nuts.                                                                                                    | PCS  |  |
| 2836633 | Stud bolt M20 GB250-SA       | Stud bolt M20x250 with nuts, square washer and washer SA1.                                                                      | PCS  |  |
| 2836621 | Stud bolt M20 GB300          | Stud bolt M20x300 with nuts.                                                                                                    | PCS  |  |
| 2836622 | Stud bolt M20 GB350          | Stud bolt M20x350 with nuts.                                                                                                    | PCS  |  |
| 2836623 | Stud bolt M20 GB400          | Stud bolt M20x400 with nuts.                                                                                                    | PCS  |  |
| 2836624 | Stud bolt M20 GB450          | Stud bolt M20x450 with nuts.                                                                                                    | PCS  |  |

| El-no   | Name                            | Description                                                                                | Unit | Picture                                                                               |
|---------|---------------------------------|--------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836625 | Stud bolt M20 GB500             | Stud bolt M20x500 with nuts.                                                               | PCS  |    |
| 2836626 | Stud bolt M20 GB550             | Stud bolt M20x550 with nuts.                                                               | PCS  |    |
| 2836627 | Stud bolt M20 GB600             | Stud bolt M20x600 with nuts.                                                               | PCS  |    |
| 2836628 | Stud bolt M20 GB650             | Stud bolt M20x650 with nuts.                                                               | PCS  |    |
| 2836629 | Stud bolt M20 GB700             | Stud bolt M20x700 with nuts.                                                               | PCS  |    |
| 2836630 | Stud bolt M20 GB800             | Stud bolt M20x800 with nuts.                                                               | PCS  |    |
| 2836631 | Stud bolt M20 GB900             | Stud bolt M20x900 with nuts.                                                               | PCS  |    |
| 2836476 | Stud bolt M24 GB24-1000         | Stud bolt M24x1000 with nuts and washers.                                                  | PCS  |    |
| 2836469 | Stud bolt M24 GB24-300          | Stud bolt M24x300 with nuts and washers.                                                   | PCS  |    |
| 2836470 | Stud bolt M24 GB24-400          | Stud bolt M24x400 with nuts and washers.                                                   | PCS  |   |
| 2836471 | Stud bolt M24 GB24-500          | Stud bolt M24x500 with nuts and washers.                                                   | PCS  |  |
| 2836472 | Stud bolt M24 GB24-600          | Stud bolt M24x600 with nuts and washers.                                                   | PCS  |  |
| 2836473 | Stud bolt M24 GB24-700          | Stud bolt M24x700 with nuts and washers.                                                   | PCS  |  |
| 2836474 | Stud bolt M24 GB24-800          | Stud bolt M24x800 with nuts and washers.                                                   | PCS  |  |
| 2836475 | Stud bolt M24 GB24-900          | Stud bolt M24x900 with nuts and washers.                                                   | PCS  |  |
| 2837435 | Support bracket STB107          | Support for bolted connection.<br>For crossbar profile 3 (width 80mm).                     | PCS  |  |
| 2837407 | Support bracket STB160-P7       | Support for bolted connection.<br>For crossbar profile 7 (width 160mm).                    | PCS  |  |
| 2837406 | Support bracket STB160-P8       | Support for bolted connection.<br>For crossbar profile 8 (width 160mm).                    | PCS  |  |
| 2837408 | Support bracket STB230          | Support for bolted connection.<br>For crossbar profile 7 (width 230mm).                    | PCS  |  |
| 2837416 | Support bracket STB65           | Support for bolted connection.<br>For crossbar profile 4 and 5 (width 65mm).               | PCS  |  |
| 2837405 | Support bracket STB95           | Support for bolted connection.<br>For crossbar profile 9 (width 95mm).                     | PCS  |  |
| 2837748 | Surge arrester crossbar TSH33-6 | Surge arrester crossbar. 2-pole.<br>Pole distance 3m, phase distance 3m.<br>For bolts M12. | PCS  |  |
| 2837422 | Top bracket TFK1-5-275          | Top bracket for pole Ø220-275mm (1:5).<br>Crossbar to be mounted on top.                   | PCS  |  |
| 2836423 | Top bracket TFK1-5-325          | Top bracket for pole Ø275-325mm (1:5).<br>Crossbar to be mounted on top.                   | PCS  |  |

| El-no   | Name                   | Description                                                                                                                                                                      | Unit | Picture                                                                               |
|---------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2836468 | Top bracket TFK1-5-390 | Top bracket for pole Ø325-390mm (1:5).<br>Crossbar to be mounted on top.                                                                                                         | PCS  |    |
| 2836661 | Top bracket TFKAS1-5   | Top bracket for pole Ø275-325mm (1:5).<br>Crossbar to be mounted in front.                                                                                                       | PCS  |    |
| 2836791 | Tower TTL              | Tower for overhead shield. Load-bearing.<br>Pole clamp and fasteners are not included.                                                                                           | PCS  |    |
| 2836454 | Tower TTL-A            | Tower for overhead shield. Anchoring.<br>Phase bracket included.<br>Pole clamp and fasteners are not included.                                                                   | PCS  |    |
| 2836464 | Turnbuckle SF20-18     | Turnbuckle M20. Length 180mm.                                                                                                                                                    | PCS  |    |
| 2836479 | Washer SA146D          | Washer length 146mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |    |
| 2836669 | Washer SA160-27        | Washer length 143mm. Hole 1xØ27mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |    |
| 2836828 | Washer SA160DS         | Washer length 143mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836829 | Washer SA160S          | Washer length 143mm. Hole 1xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836477 | Washer SA175D          | Washer length 175mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836478 | Washer SA196D          | Washer length 196mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836894 | Washer SA1S            | Washer length 80mm. Hole 1xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                   | PCS  |  |
| 2836815 | Washer SA1S-27         | Washer length 80mm. Hole 1xØ27mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                   | PCS  |  |
| 2836480 | Washer SA211D          | Washer length 211mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836481 | Washer SA241D          | Washer length 241mm. Hole 2xØ22mm.<br>Important: always to be used to the crossbar together<br>with pole clamp.                                                                  | PCS  |  |
| 2836790 | Yoke FK7               | Yoke intended for composite insulators where<br>reinforcement is required.<br>Adapted to all composite insulators with ball coupling<br>and bolt.<br>Delivered in sets of 3 pcs. | SET  |  |





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