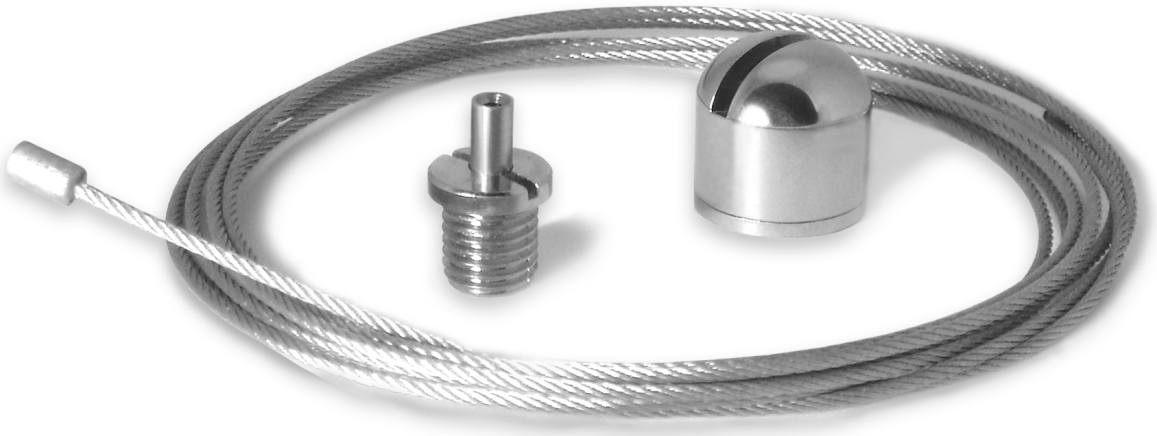
# Suspension Systems

Easy installation
Instant adjustment
Compact design
Wide area of use



## Dear customers,

In addition to the standard products in this catalogue, we can design components based on your specific product requirements.

We are happy to help you develop your project and offer solutions to improve the desired product. Please contact us to find out more about our ideas.

All our products are in compliance with RoHS directives.

We always do our best on:
- Quality
- Punctuality
- Service
- Price

Best regards,
**Alem Teknik AB**

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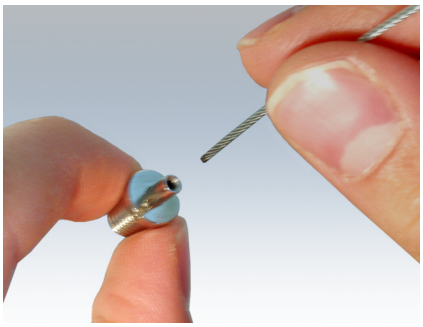
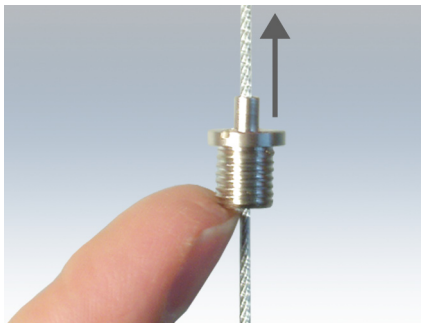
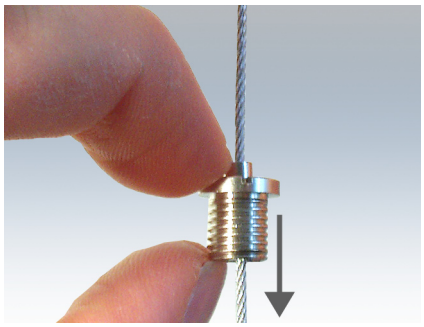
# Suspension system



A. Insert wire into gripper



B. Adjust up



C. Press pin and adjust down

## Grippers

Compact designed grippers allow swift installation and instant adjustment without damaging the wire.

We have many different gripper models to choose from, depending on your area of usage and weight capacities.

## Wires

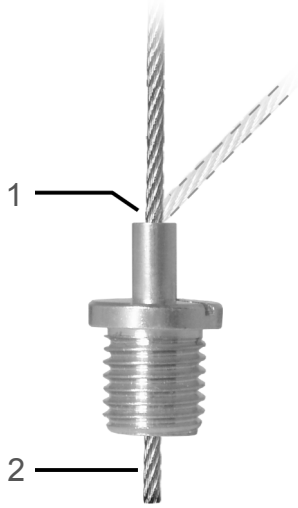
Stainless steel and zinc-plated wires are available in various dimensions and lengths.

Wires with loops or nipples can be obtained after consultation with our technicians.

## Attachments

Attachments are used to fix the wire to ceilings, walls or floors.

Ensure that you use suitable screws and dowels for the materials when installing.




1. Direction of wire and gripper must be in a straight line

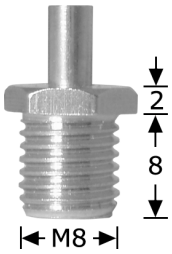
2. For safe installation, the wire must be inserted all the way through the gripper and protrude at least 5 mm from the bottom

# Grippers

## 9-13H

Gripper with hexagonal head.

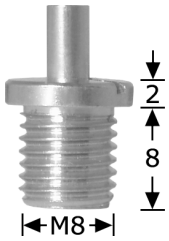
| | |
|---|---|
| **Old art. no:** | 933201 |
| **Size:** | SW 10 x 10 mm |
| **Thread:** | M8 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-13R

Gripper with collar.

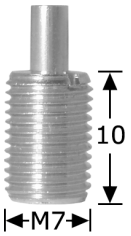
| | |
|---|---|
| **Old art. no:** | 933202 |
| **Size:** | Ø 10 x 10 mm |
| **Thread:** | M8 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-61

Gripper for limited space.

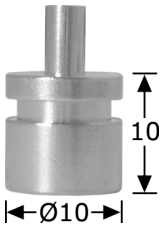
| | |
|---|---|
| **Old art. no:** | 933203 |
| **Size:** | Ø 7 x 10 mm |
| **Thread:** | M7 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-12T

Gripper with slit.

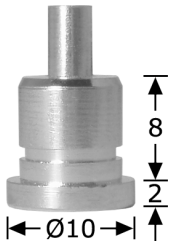
| | |
|---|---|
| **Old art. no:** | 933204 |
| **Size:** | Ø 10 x 10 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-12TS

Gripper with slit and collar.

| | |
|---|---|
| **Old art. no:** | 933205 |
| **Size:** | Ø 10 x 10 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-33MM10

Gripper with collar.

| | |
|---|---|
| **Old art. no:** | 933301 |
| **Size:** | Ø 12 x 16 mm |
| **Thread:** | M10 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,2 - 1,5 mm |

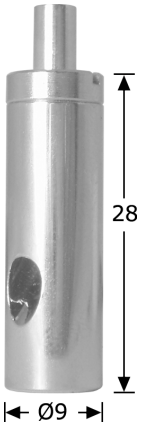
# Grippers

## 9-38M4

Gripper with female thread.

**Old art. no:** 933801
**Size:** Ø 9 x 28 mm
**Thread:** M4
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Also available with:**
M5 Thread (Art. no. 9-38M5)

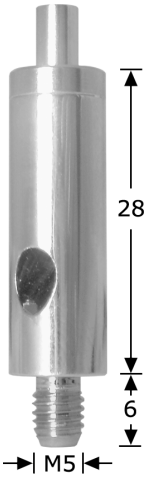



## 9-38MM5L6

Gripper with male thread.

**Old art. no:** 933809
**Size:** Ø 9 x 28 mm
**Thread:** M5
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Also available with:**
Various threads

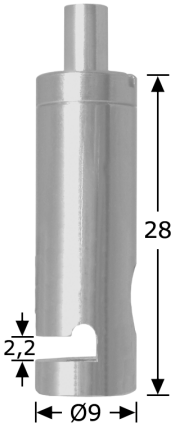



## 9-38M4P

Gripper with transversal slit.

**Old art. no:** 933802
**Size:** Ø 9 x 28 mm
**Thread:** M4
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Including :**
M4 set screw (Art. no. 710MM4L5BK)

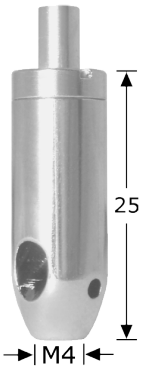



## 9-38M4CH2

Gripper with transversal hole.

**Old art. no:** 933803
**Size:** Ø 9 x 25 mm
**Thread:** M4
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Including :**
M4 set screw (Art. no. 710MM4L5BK)

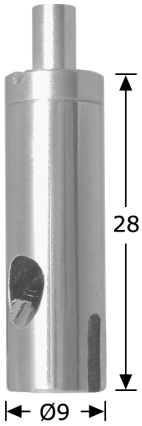



## 9-38M5U

Gripper with transversal slit.

**Old art. no:** 933807
**Size:** Ø 9 x 28 mm
**Thread:** M5
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Use with:**
M5 set screw (Art. no. 710MM5L5BK)
or M5 T-screw (Art. no. 719MM5L6)

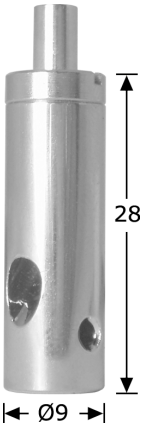



## 9-38M5H2

Gripper with transversal hole.

**Old art. no:** 933808
**Size:** Ø 9 x 28 mm
**Thread:** M5
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,0 - 1,2 mm

**Use with:**
M5 set screw (Art. no. 710MM5L5BK)
or M5 T-screw (Art. no. 719MM5L6)



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# Grippers

## 9-18TD8

Gripper with two side slits.

| | |
|---|---|
| **Size:** | Ø 8 x 22 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 0,8 - 1,2 mm |

## 9-18M4BL21

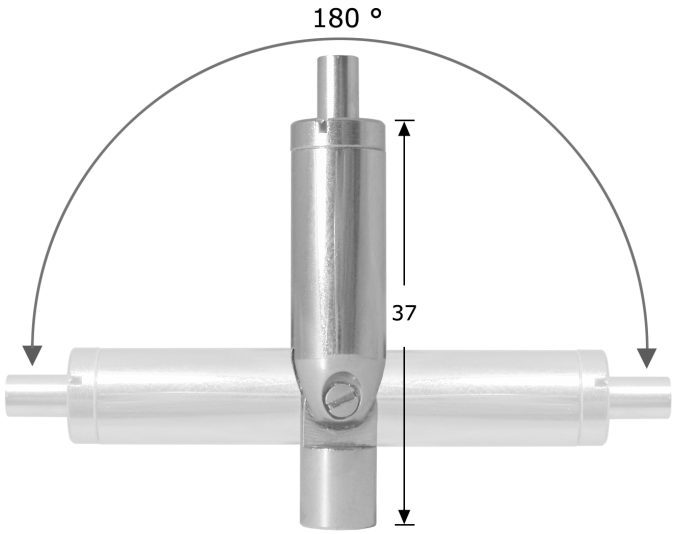
Gripper with female thread

| | |
|---|---|
| **Size:** | Ø 9 x 21 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 0,8 - 1,2 mm |

## 9-38V8M4

Gripper with female threaded joint.

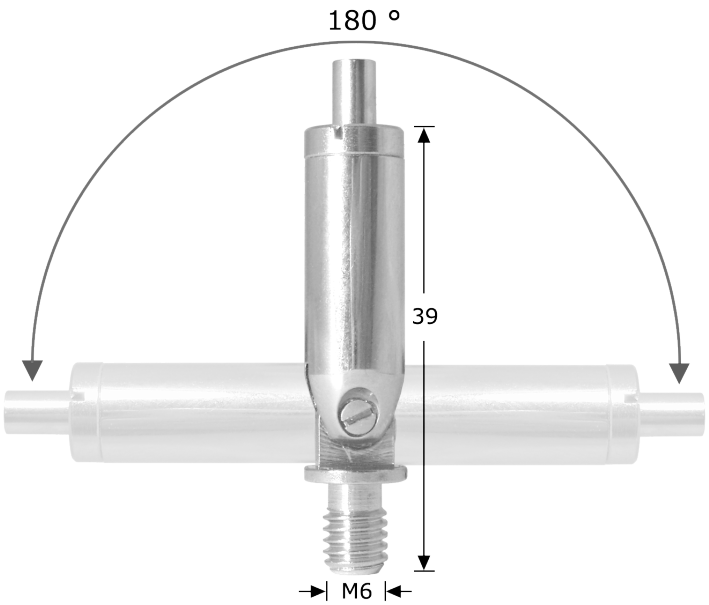
| | |
|---|---|
| **Old art. no:** | 933811 |
| **Size:** | Ø 9 x 37 mm |
| **Thread:** | M4 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-38V8MM6L8

Gripper with male threaded joint.

| | |
|---|---|
| **Old art. no:** | 933812 |
| **Size:** | Ø 9 x 39 mm |
| **Thread:** | M6 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |



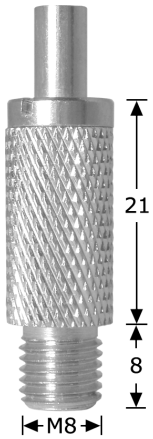
# Grippers

## 9-75MM8P1CK

Gripper with heavy knurls.

**Old art. no:** 937701
**Size:** Ø 10 x 29 mm
**Thread:** M8 x 1
**Finish:** Nickel plating
**Wire exit:** Bottom
**Rec. wire:** Ø 1,2 - 1,8 mm

**Also available with:**
Thread M8 with pitch 1,25
(Art. no. 9-75MM8P125)

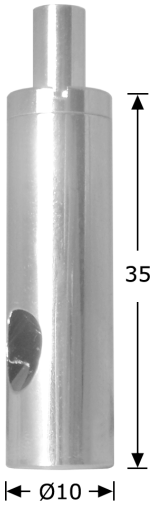



## 9-78M6

Gripper with female thread.

**Old art. no:** 937813
**Size:** Ø 10 x 35 mm
**Thread:** M4
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,2 - 1,5 mm

**Also available with:**
M4 Thread (Art. no. 9-78M4)
M5 Thread (Art. no. 9-78M5)

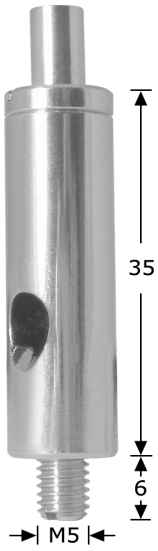



## 9-78MM5L6

Gripper with male thread.

**Old art. no:** 937804
**Size:** Ø 10 x 35 mm
**Thread:** M5
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,2 - 1,5 mm

**Also available with:**
Various threads

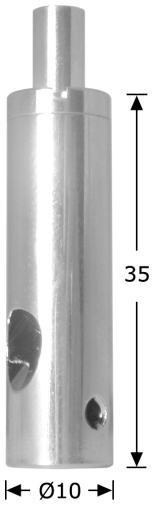



## 9-78M6H2

Gripper with transversal hole.

**Old art. no:** 937807
**Size:** Ø 10 x 35 mm
**Thread:** M6
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,2 - 1,5 mm

**Use with:**
M5 set screw (Art. no. 710MM5L5BK)
or M5 T-screw (Art. no. 719MM5L6)

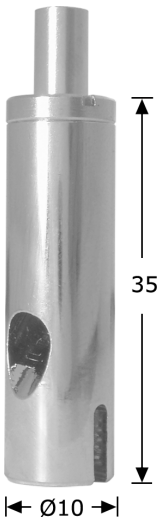



## 9-78M6U

Gripper with transversal slit.

**Old art. no:** 937806
**Size:** Ø 10 x 35 mm
**Thread:** M6
**Finish:** Nickel plating
**Wire exit:** Side
**Rec. wire:** Ø 1,2 - 1,5 mm

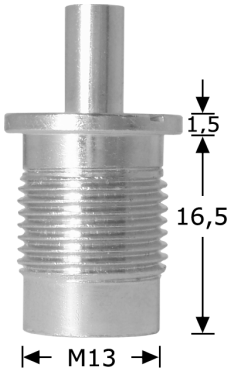
**Use with:**
M6 set screw (Art. no. 710MM6L6BK)
or M6 T-screw (Art. no. 719MM6L7)




## 9-73MM13

Gripper with collar.

**Old art. no:** 933401
**Size:** Ø 15 x 18 mm
**Thread:** M13 x 1
**Finish:** Nickel plating
**Wire exit:** Bottom
**Rec. wire:** Ø 1,5 - 2,0 mm



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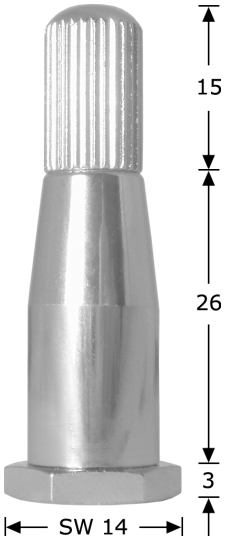
# Grippers

## 697-M10BL44

Gripper with safety cap.

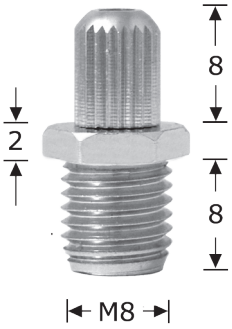
| | |
|---|---|
| **Old art. no:** | 937805 |
| **Size:** | SW 14 x 44 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,5 - 2,0 mm |




## 9-16H

Gripper with safety cap.

| | |
|---|---|
| **Old art. no:** | |
| **Size:** | SW10 x 18 mm |
| **Thread:** | M8 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |

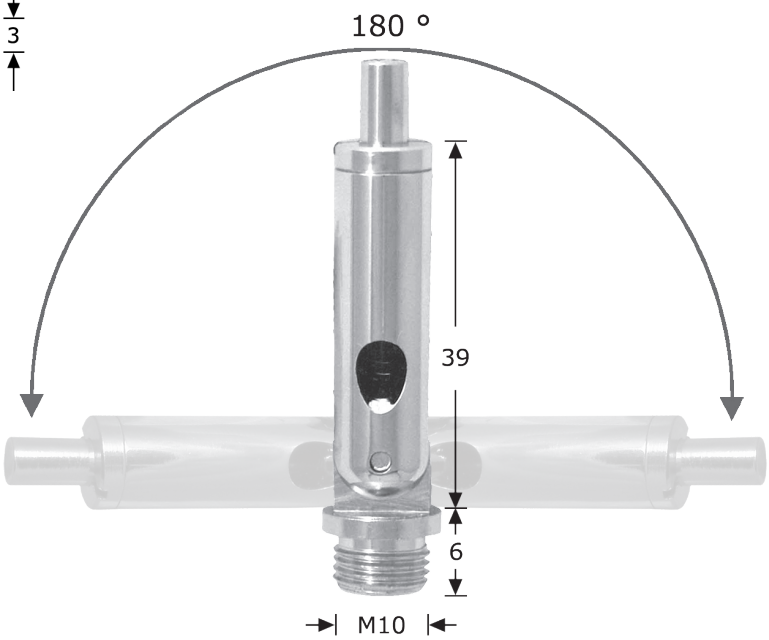



## 9-78V8MM10P1

Gripper with male threaded joint.

| | |
|---|---|
| **Old art. no:** | 937810 |
| **Size:** | Ø 10 x 45 mm |
| **Thread:** | M10 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 1,2 - 1,5 mm |

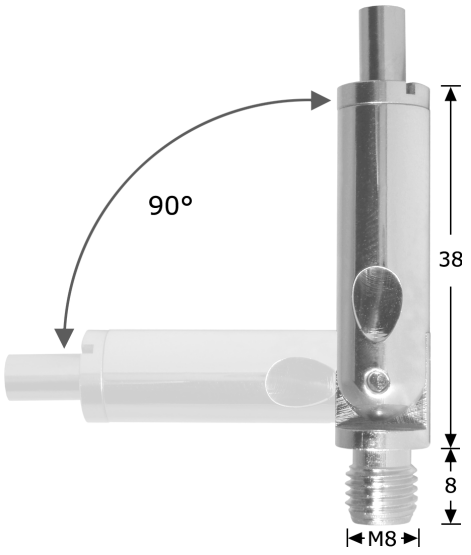
**Also available with:**
M13 x 1 Thread (Art. no. 9-78V8MM13P1)




## 9-78V9MM8L8

Gripper with male threaded joint.

| | |
|---|---|
| **Old art. no:** | 937809 |
| **Size:** | Ø 10 x 46 mm |
| **Thread:** | M8 x 1 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Side |
| **Rec. wire:** | Ø 1,2 - 1,5 mm |

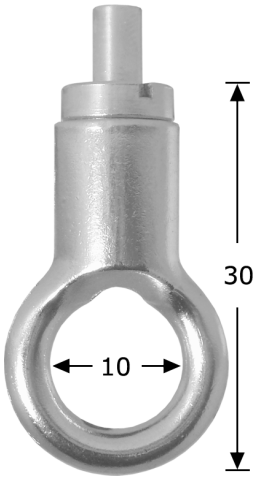


# Grippers

## 9-39Q

Gripper with moulded body.

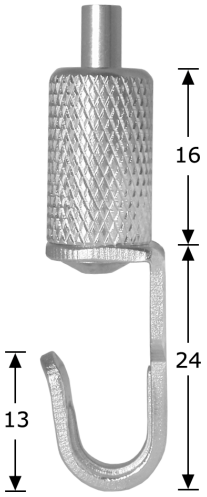
| | |
|---|---|
| **Old art. no:** | 933810 |
| **Size:** | Ø 10 x 30 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |




## 9-39J

Gripper with hook.

| | |
|---|---|
| **Old art. no:** | 937703 |
| **Size:** | Ø 10 x 40 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,2 - 1,5 mm |




## 9-39UPDNW

Double gripper with special function.

| | |
|---|---|
| **Size:** | 18 x 9 x 22 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Top & bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |

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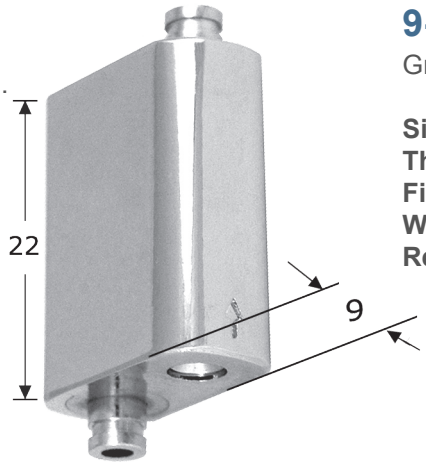



## 9-11P125

Gripper with full body thread.

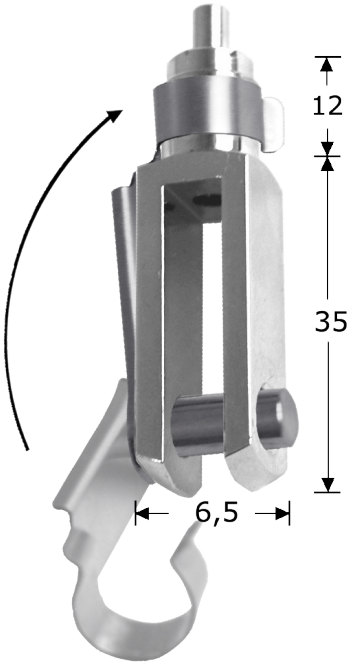
| | |
|---|---|
| **Size:** | Ø 8 x 18,5 mm |
| **Thread:** | M8 x 1,25 |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |

## 9-39U

Gripper with spring attachment.

| | |
|---|---|
| **Size:** | 47 x 6,5 mm |
| **Finish:** | Nickel plating |
| **Wire exit:** | Bottom |
| **Rec. wire:** | Ø 1,0 - 1,2 mm |

**Also available with:**
Different dimensions



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# Attachments

## 42T24M5L5H

Ceiling attachment with 2 holes.

**Old art. no:** 945301
**Size:** 26 x 42 mm
**Thread:** M5 x 5 mm
**Finish:** White colour

**Also available with:**
M5 x 10 mm thread (Art. no. 42T24M5L10H)

## 31SM5L5

Click clip for ceiling system T15 track.

**Size:** 25 x 42 mm
**Thread:** M5 x 5 mm
**Finish:** White colour

**Also available with:**
M5 x 10 mm thread (Art. no. 31SM5L10)
M6 x 7 mm thread (Art. no. 31SM6L7)
Hook (Art. No. 31SD4L30J)

## 32SM5L5

Click clip for ceiling system T24 track.

**Size:** 31 x 42 mm
**Thread:** M5 x 5 mm
**Finish:** White colour

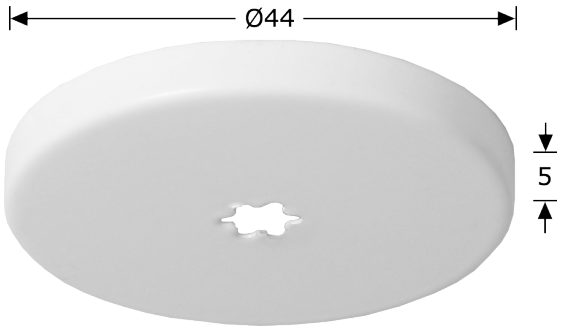
**Also available with:**
M5 x 10 mm thread (Art. no. 32SM5L10)
M6 x 7 mm thread (Art. no. 32SM6L7)
Hook (Art. No. 32SD4L30J)

# Attachments

## 43M5WK

Cover for ceiling clips M5.

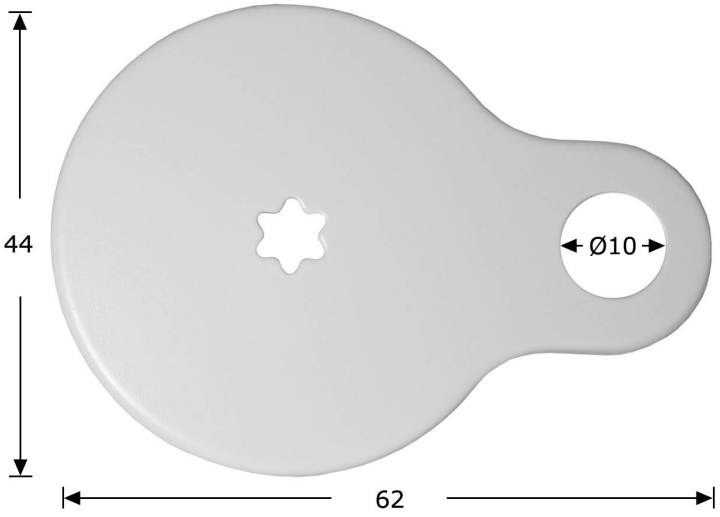
**Old art. no:** 965602
**Size:** Ø 44 x 5 mm
**Finish:** White colour




## 43M5H10WK

Cover with 10 mm hole for ceiling clips M5.

**Old art. no:** 965604
**Size:** 44 x 62 x 5 mm
**Finish:** White colour

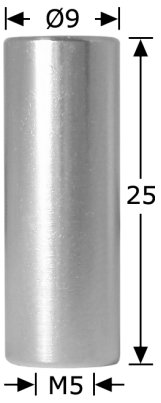



## 412M5D9BL25

Attachment for clips.

**Old art. no:** 945501
**Size:** Ø 9 x 25 mm
**Thread:** M5
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm

**Also available with:**
M6 (Art. no. 412M6D9BL25)



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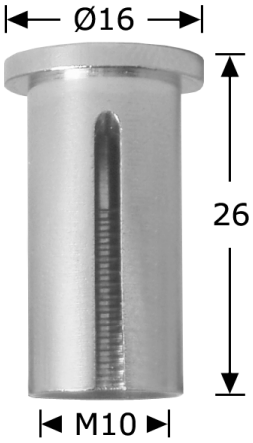
# Attachments

## 412M10M6BL26U

Ceiling attachment with slit.
For gripper 9-33MM10.

**Old art. no:** 948605
**Size:** Ø 16 x 26 mm
**Thread:** M6, M10 x 1
**Finish:** Nickel plating

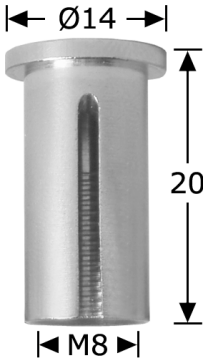
.




## 412M8M6BL20U

Ceiling attachment with slit for gripper 9-13R.

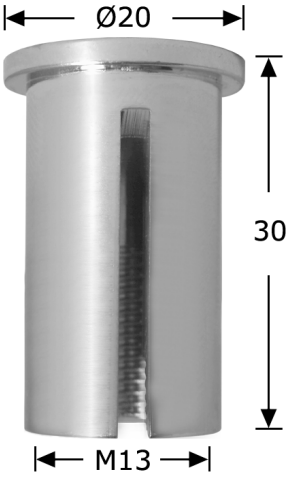
**Old art. no:** 948601
**Size:** Ø 14 x 20 mm
**Thread:** M6, M8 x 1
**Finish:** Nickel plating




## 412M13M6BL30U

Ceiling attachment with slit.
For gripper 9-73MM13.

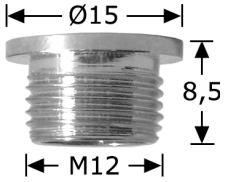
**Old art. no:** 948604
**Size:** Ø 20 x 30 mm
**Thread:** M6, M13 x 1
**Finish:** Nickel plating




## 412MM12M5BL9

Ceiling attachment.

**Old art. no:** 948001
**Size:** Ø 15 x 8,5 mm
**Thread:** M5, M12 x 1
**Finish:** Nickel plating

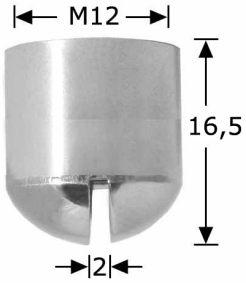



## 411M12BL17U

Cap with slit for 412MM12M5BL9.
Suitable for angled ceilings.

**Size:** Ø 15 x 16,5 mm
**Thread:** M12 x 1
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm

**Also available with:**
13,5 mm length
(Art. no. 411M10M6BL14U)

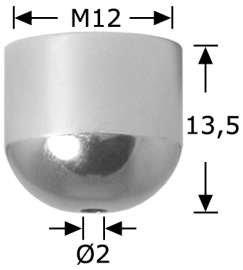



## 411M12BL14H

Cap for 412MM12M5BL9.

**Old art. no:** 968001
**Size:** Ø 15 x 13,5 mm
**Thread:** M12 x 1
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm

**Also available with:**
16,5 mm length
(Art. no. 411M12BL17H)



# Attachments

## 412M13M6BL20

M13 ceiling attachment.

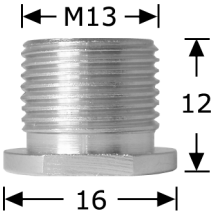
**Old art. no:** 945401
**Size:** Ø 20 x 20 mm
**Thread:** M6, M13 x 1
**Finish:** Nickel plating

**Also available with:**
30 mm length (Art. no. 412M13M6BL30)

## 411MM13BL12

M13 cap.

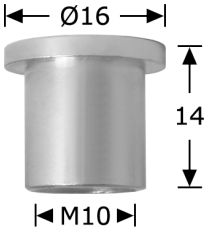
**Old art. no:** 968005
**Size:** 12 x 16 mm
**Thread:** M13 x 1
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 2,0 mm




## 412M10M6BL14

M10 ceiling attachment.

**Old art. no:** 948602
**Size:** Ø 16 x 14 mm
**Thread:** M6, M10 x 1
**Finish:** Nickel plating




## 411MM10BL10

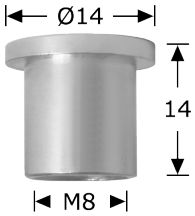
M10 cap.

**Old art. no:** 968004
**Size:** Ø 12 x 10 mm
**Thread:** M10 x 1
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm

## 412M8M6BL14

M8 ceiling attachment.

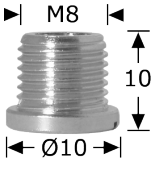
**Old art. no:** 948607
**Size:** Ø 14 x 14 mm
**Thread:** M6, M8 x 1
**Finish:** Nickel plating




## 411MM8BL10

M8 cap.

**Old art. no:** 968003
**Size:** Ø 10 x 10 mm
**Thread:** M8 x 1
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm



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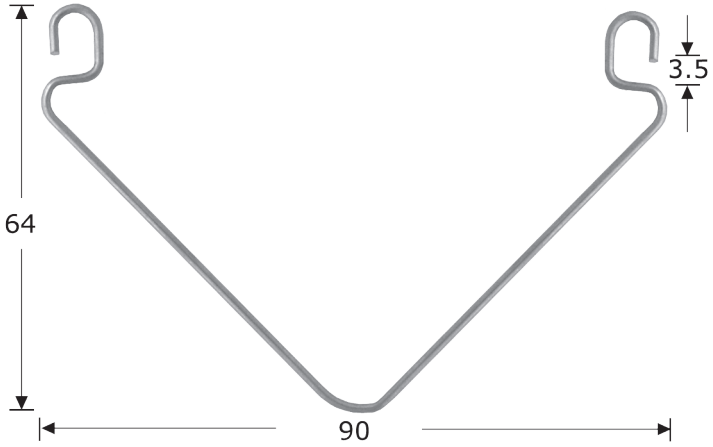
# Accessories

## 4801

Spring steel bracket.

**Length:** 64 x 90 mm
**Thickness:** Ø 1,5 mm
**Finish:** Nickel plating

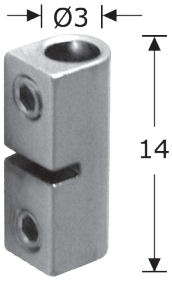



## 7801

Socket with M3 set screw.

**Length:** Ø 3 x 14 mm
**Finish:** Nickel plating

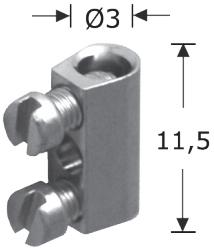
**Also available with:**
Hex key (Art. no. 796D1-5) for M3 set screw.




## 7802

Socket.

**Length:** Ø 3 x 11,5mm
**Finish:** Zinc plating

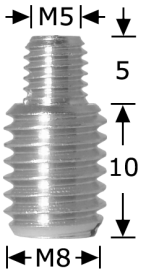



## 47M8M5BL15

Thread converter.

**Old art. no:** 965801
**Length:** 15 mm
**Thread:** M5, M8
**Finish:** Nickel plating

**Also available with:**
Various threads




## 726M6D10

M6 pitch 1 Nut.

**Old art. no:** 982002
**Thread:** M6
**Finish:** Nickel plating

**Also available with:**
M8 pitch 1 (Art. no. 726M8P1)
M10 pitch 1 (Art. no. 726M10P1)
M13 pitch 1 (Art. no. 726M13P1 )

# Accessories

## 9-4401

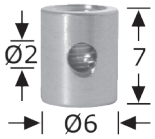
Lock with screw.

**Old art. no:** 934401
**Size:** Ø 5 x 7 mm
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm

## 9-4402

Lock with screw.

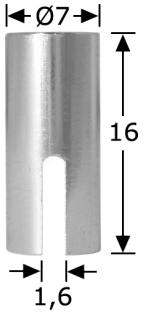
**Old art. no:** 934402
**Size:** Ø 6 x 7 mm
**Finish:** Nickel plating
**Rec. wire:** Ø 1,2 - 1,5 mm




## 46M5BD7BL16

Pipe with slit.

**Old art. no:** 939002
**Size:** Ø 7 x 16 mm
**Thread:** M5
**Finish:** Nickel plating
**Rec. wire:** Ø 1,0 - 1,5 mm




## 711MM5L7

Screw for 46M5BD7BL16.

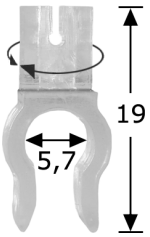
**Old art. no:** 965802
**Size:** Ø 7 x 12 mm
**Thread:** M5
**Finish:** Nickel plating

## 451260

Rotatable cable clip for Ø 1,2 mm wire.

**Old art. no:** 968202
**Size:** 19 x 9 mm
**Finish:** Transparent
**Rec. wire:** Ø 1,2 mm

**Also available for:**
Ø 1,0 mm wire (Art. no. 451060)

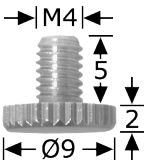



## 719MM4L5

T-screw.

**Old art. no:** 981005
**Size:** Ø 9 x 7 mm
**Thread:** M4
**Finish:** Nickel plated

**Also available for:**
M5 (Art. no. 719MM5L6)
M6 (Art. no. 719MM6L7)



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# Accessories

## 44D6BL25AK

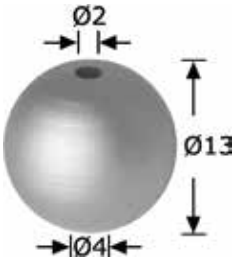
Pipe for pull switch.

**Old art. no:** 966003
**Size:** Ø 6 x 25 mm
**Finish:** Matt plating

## 44D13HAK

Ball for pull switch.

**Old art. no:** 966001
**Size:** Ø 13 mm
**Finish:** Matt plating

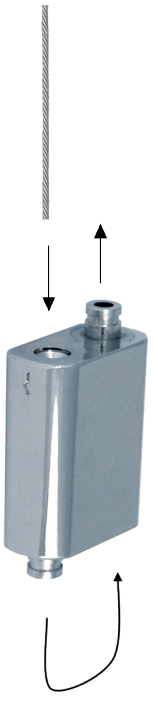


# How to use

1

2

1



2

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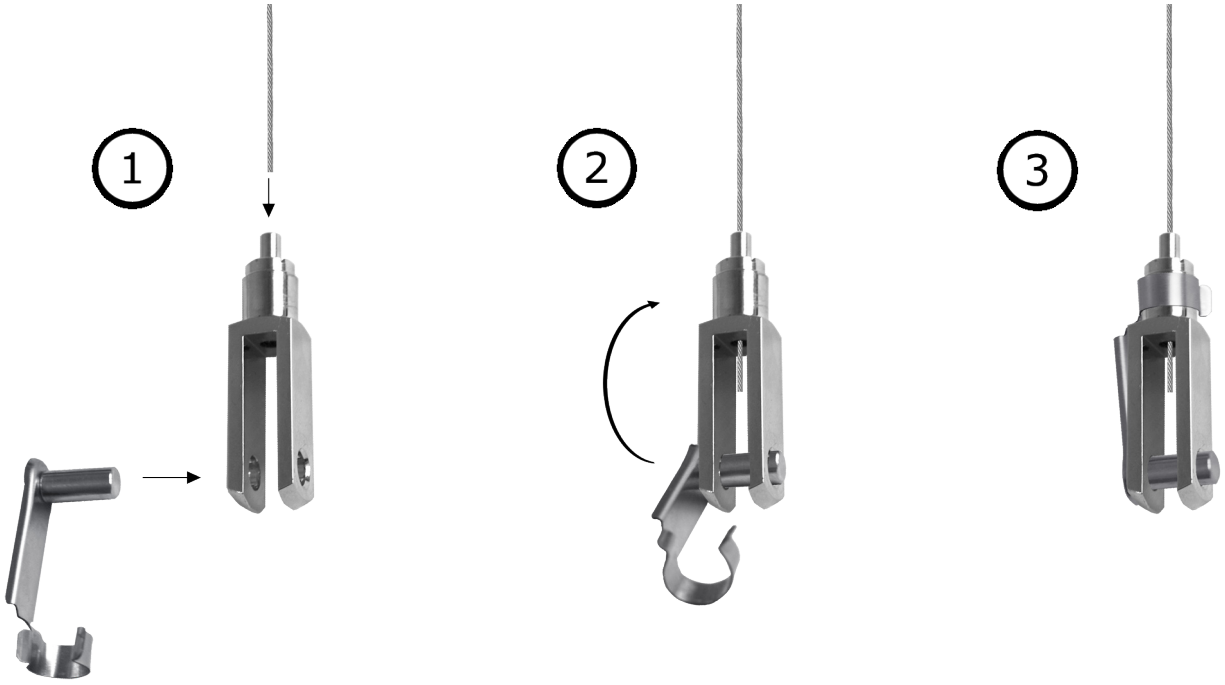
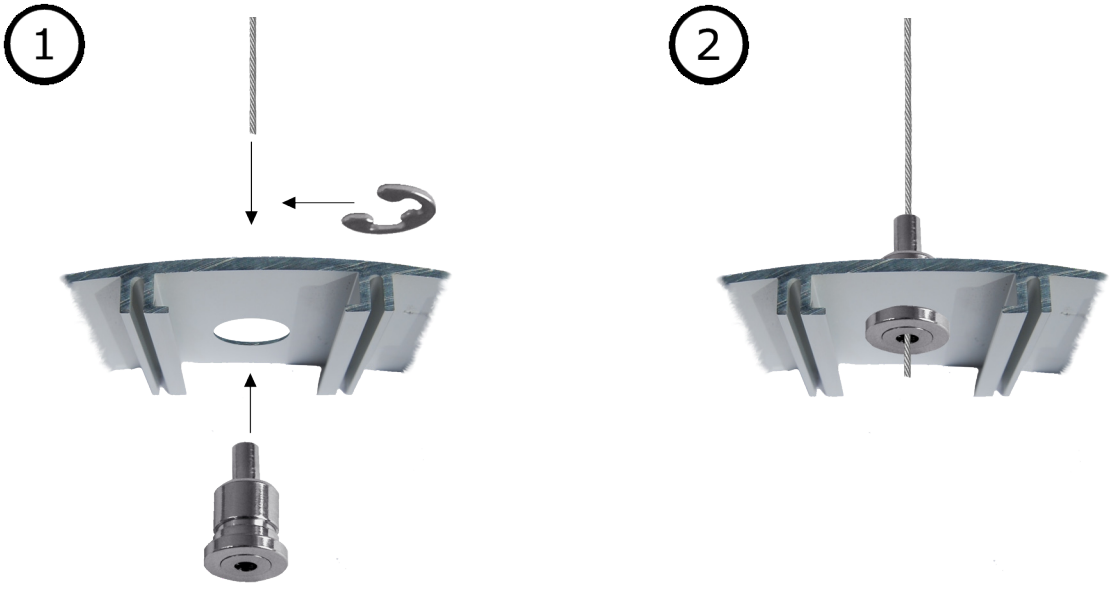
# How to use



# How to use

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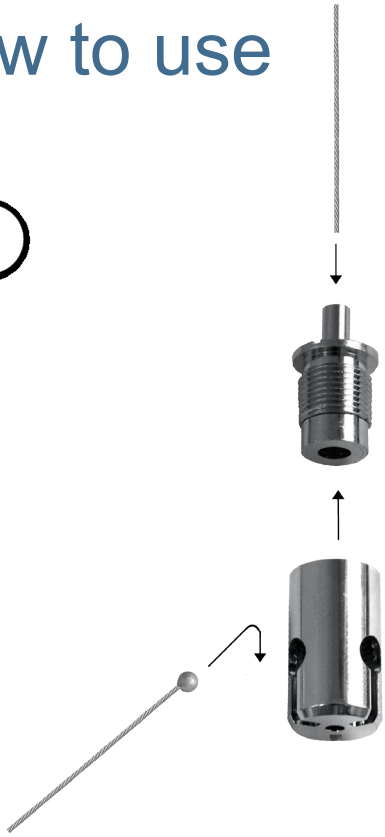

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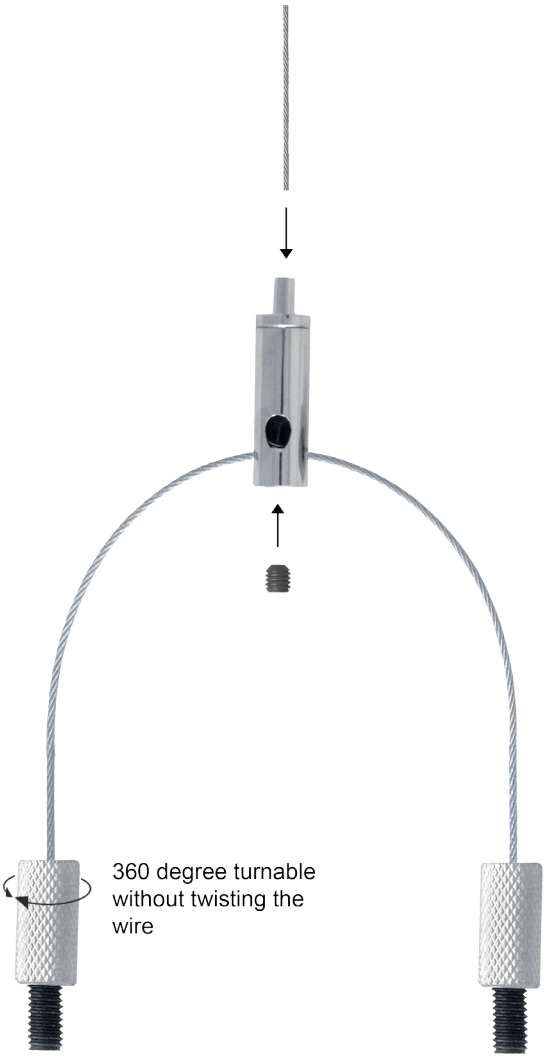




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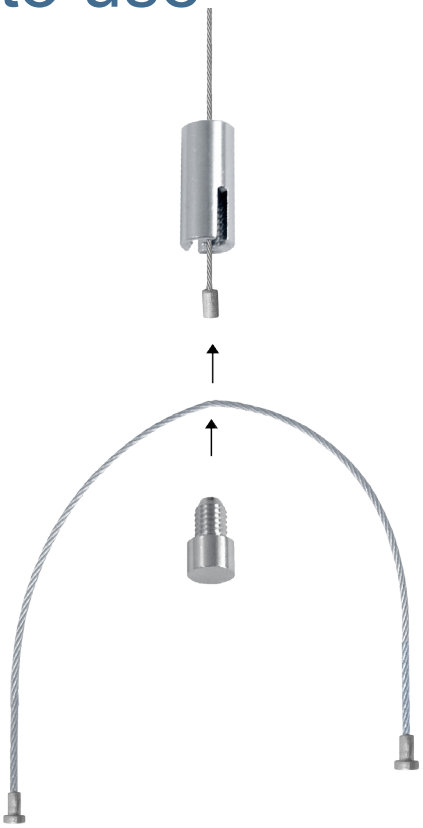
# How to use

1



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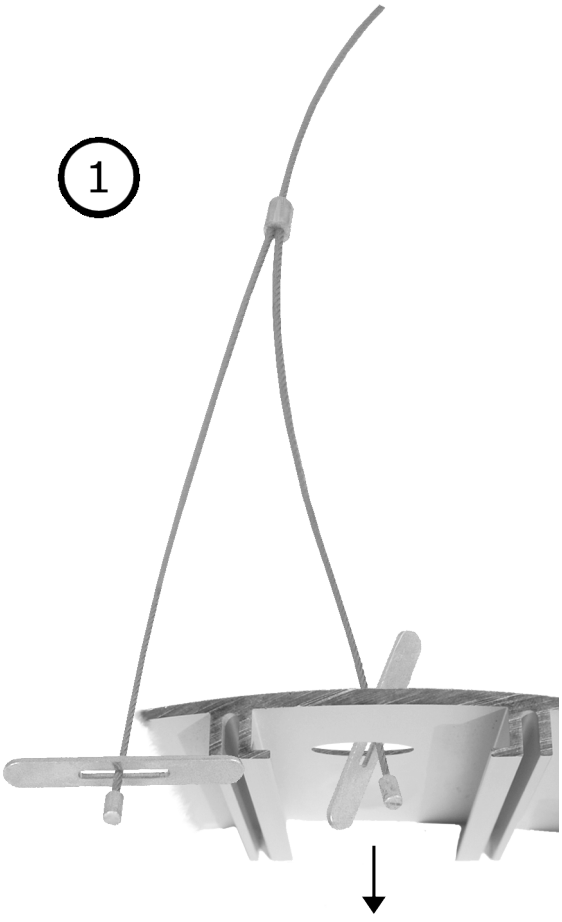

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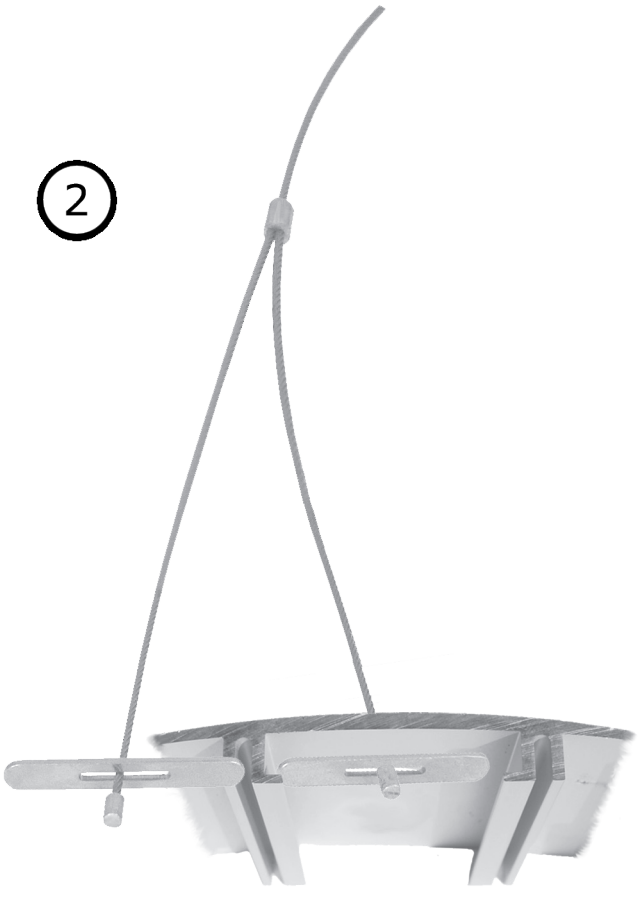

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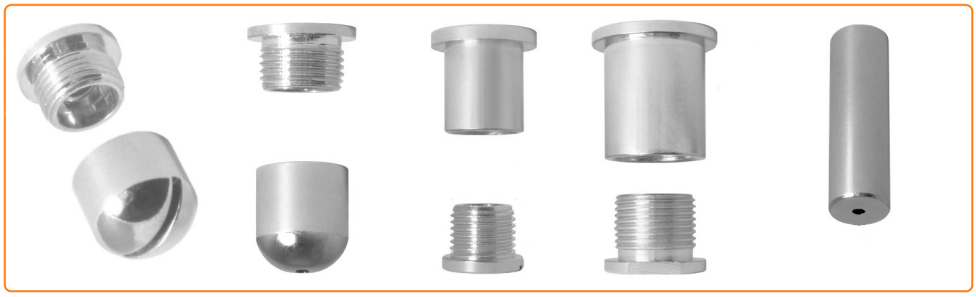
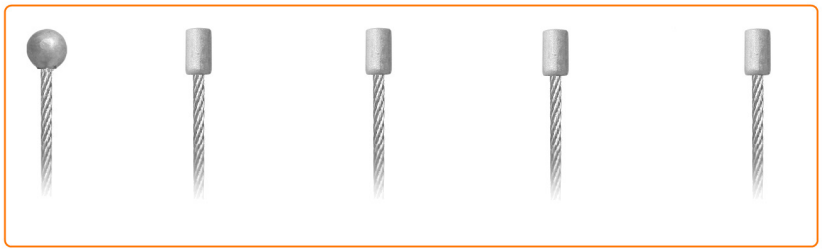
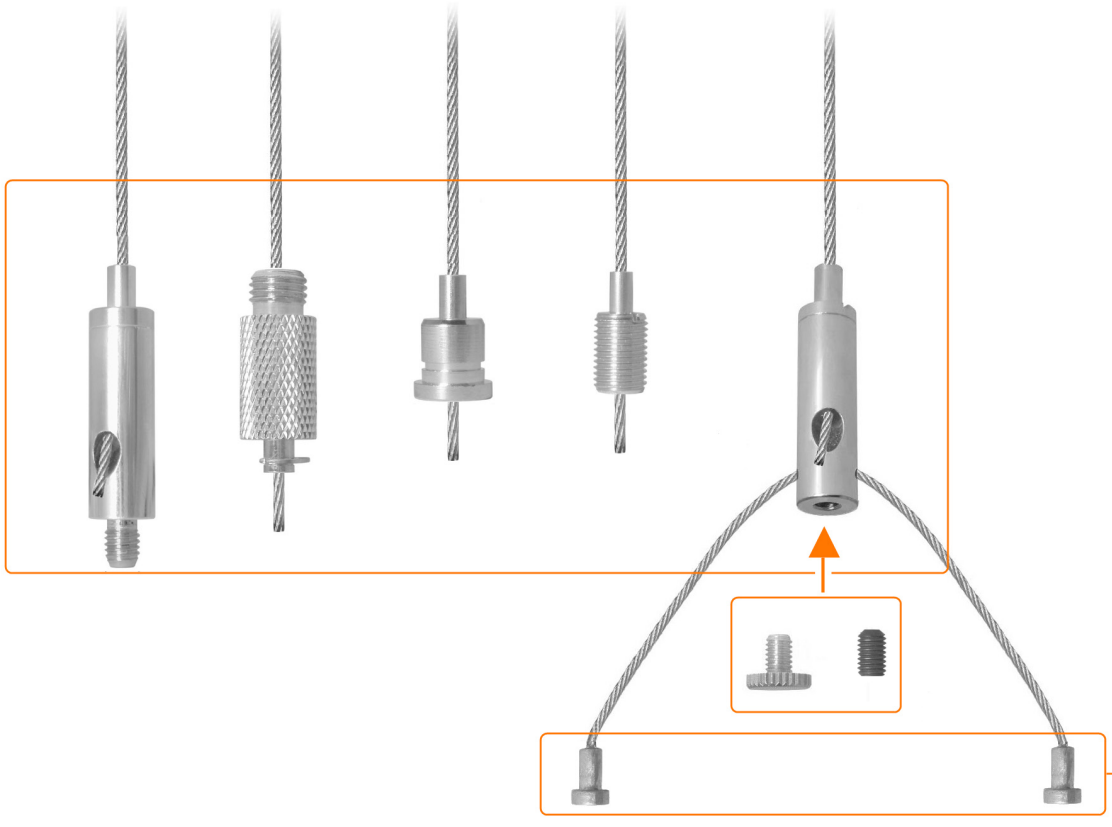
# Overview









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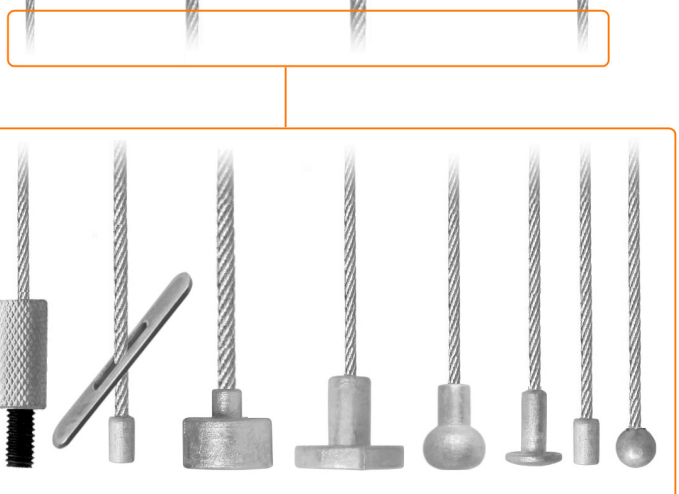
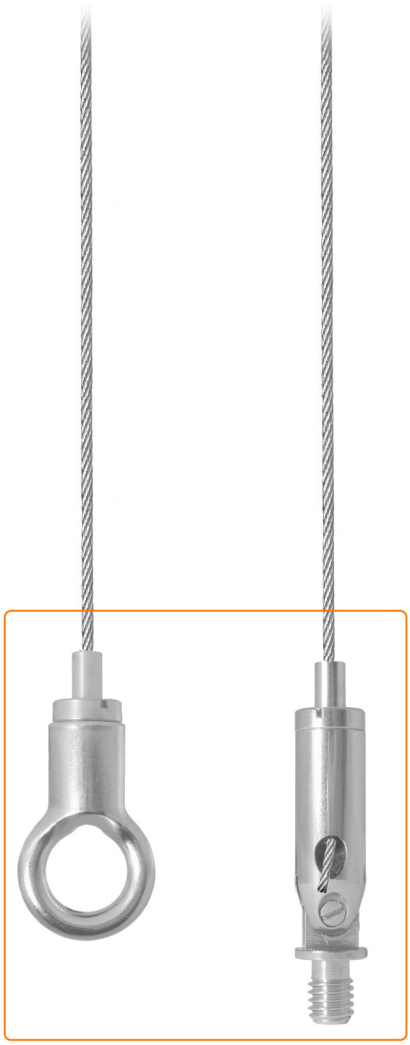




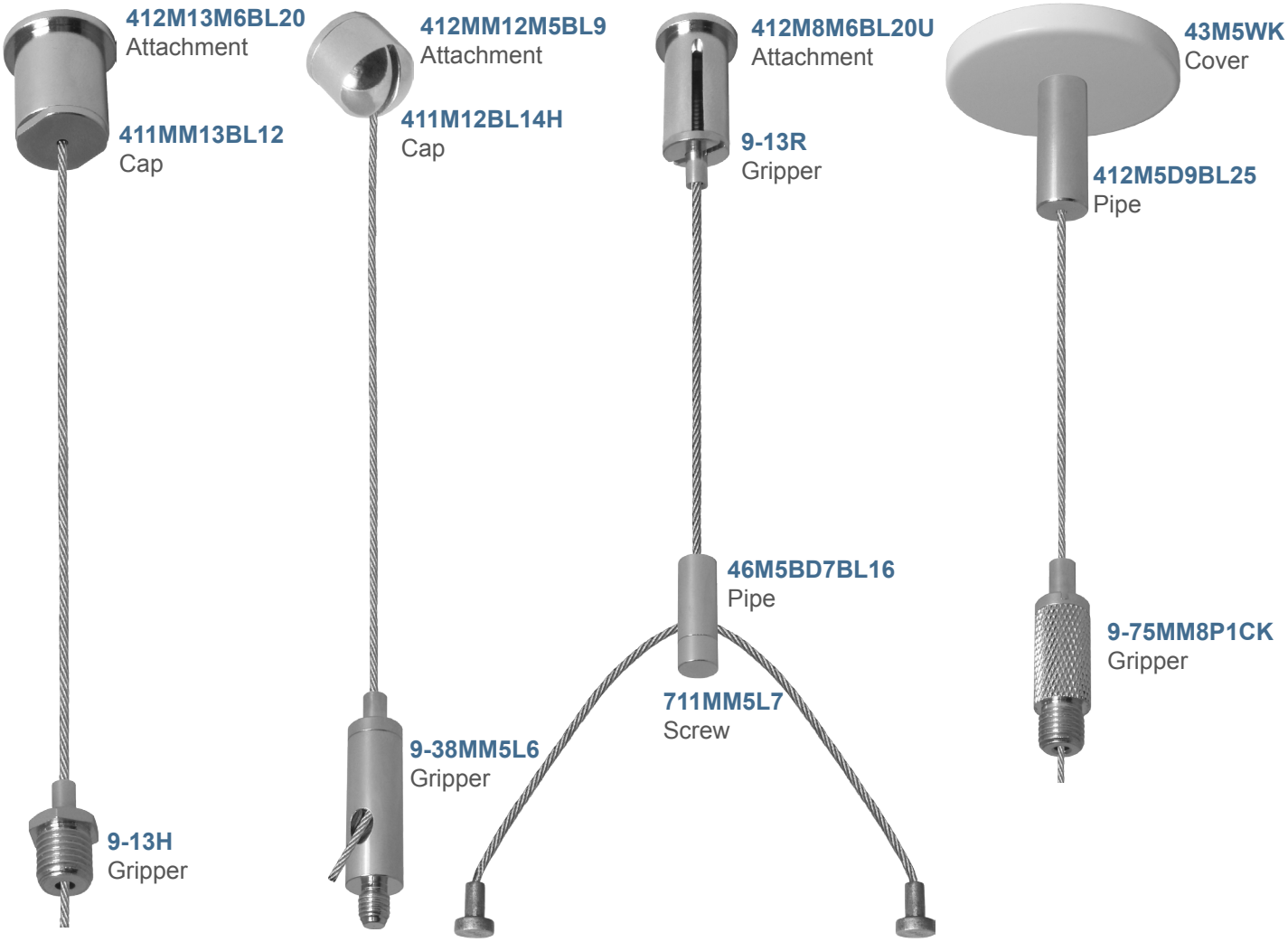
# Kits

## Custom made kits

We can make installation kits containing gripper, attachment, wire, accessories, installation instructions, etc.

Kits are supplied in welded plastic bags or zipper bags. Please contact us for further information.

## Kit installation examples



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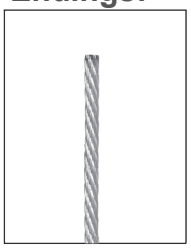
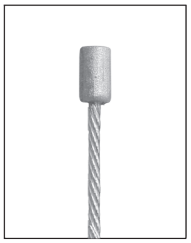
# Wires

**Endings:**

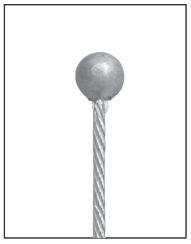


## Free



## Stopper

## T



## Ball

## Hook

## Loop & Ring

## Available specifications

**Materials :**

Stainless steel
Zinc plated

**Diameters :**

Ø 1.0 mm
Ø 1.2 mm
Ø 1.5 mm
Ø 1.8 mm
Ø 2.0 mm
Custom specified

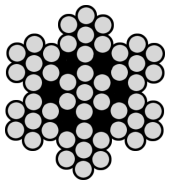
**Lenghts :**

- 500 mm
- 1000 mm
- 1500 mm
- 2000 mm
- Custom specified

## How to cut the wire

You can cut the wire to a suitable length by using a sharp wire cutter.

After cutting, the wire end must be sealed, preferably by glueing or tinning.



7 x 7 interlaced

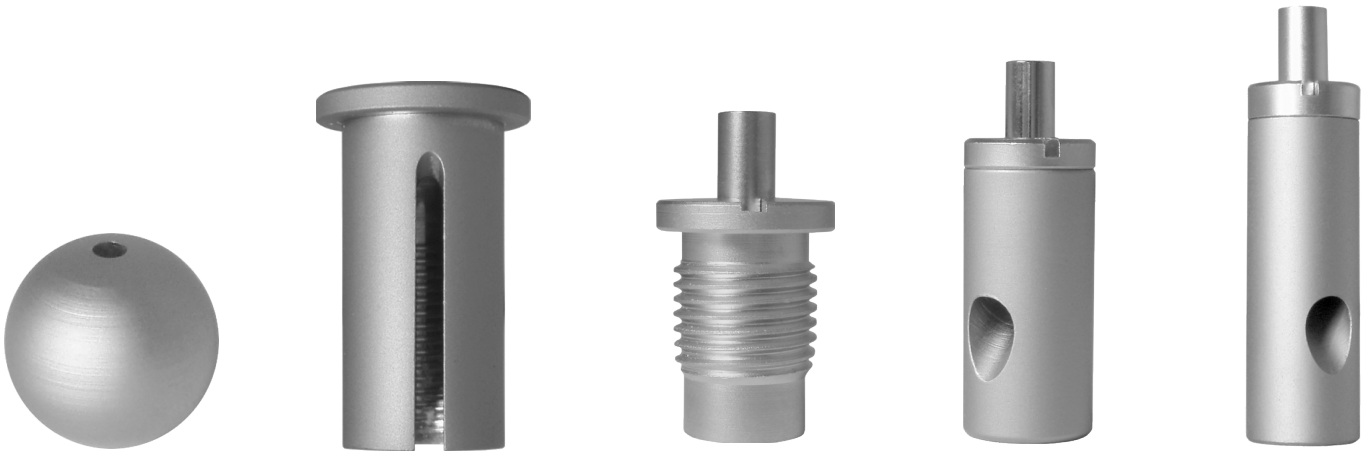
Please contact our sales office for more details regarding wires.

STANDARD PITCH IS USED, UNLESS OTHERWISE STATED.
PRODUCT INFORMATION MAY BE MODIFIED. FOR MORE DETAILS, PLEASE CONTACT OUR SALES OFFICE.

# Aluminium look

## Product examples

In addition to our standard nickel plated products, we can manufacture products with a matt nickel plated finish, which gives them a stylish aluminium look.



Note that the shades may vary from one product to another depending on shapes, surfaces and materials. Please contact our sales office for more information about matt nickel plated finish.

# Technical

## Weight Guidelines

Wire Diameter :
Each value shows the diameter of the wire.

Breaking Load :
Each value shows the weight when the wire/gripper combination breaks.

Recommended Load :
Each value shows 1/5 of the Breaking Load and are for guidelines only.

| Wire Diameter | Breaking Load | Recommended Load |
|---|---|---|
| Ø 1.0 mm | 40 kg | 8 kg |
| Ø 1.2 mm | 60 kg | 12 kg |
| Ø 1.5 mm | 90 kg | 18 kg |
| Ø 2.0 mm | 140 kg | 28 kg |

The table shows results using the right gripper suited for each one of the diameters.
Improper installation and wrong choice of components may give undesirable results.

## Test Reports

Our tests are conducted with original Alem Teknik products. We can supply you with test report documents.

We have a well implemented quality control system, and take full responsibility for our products.

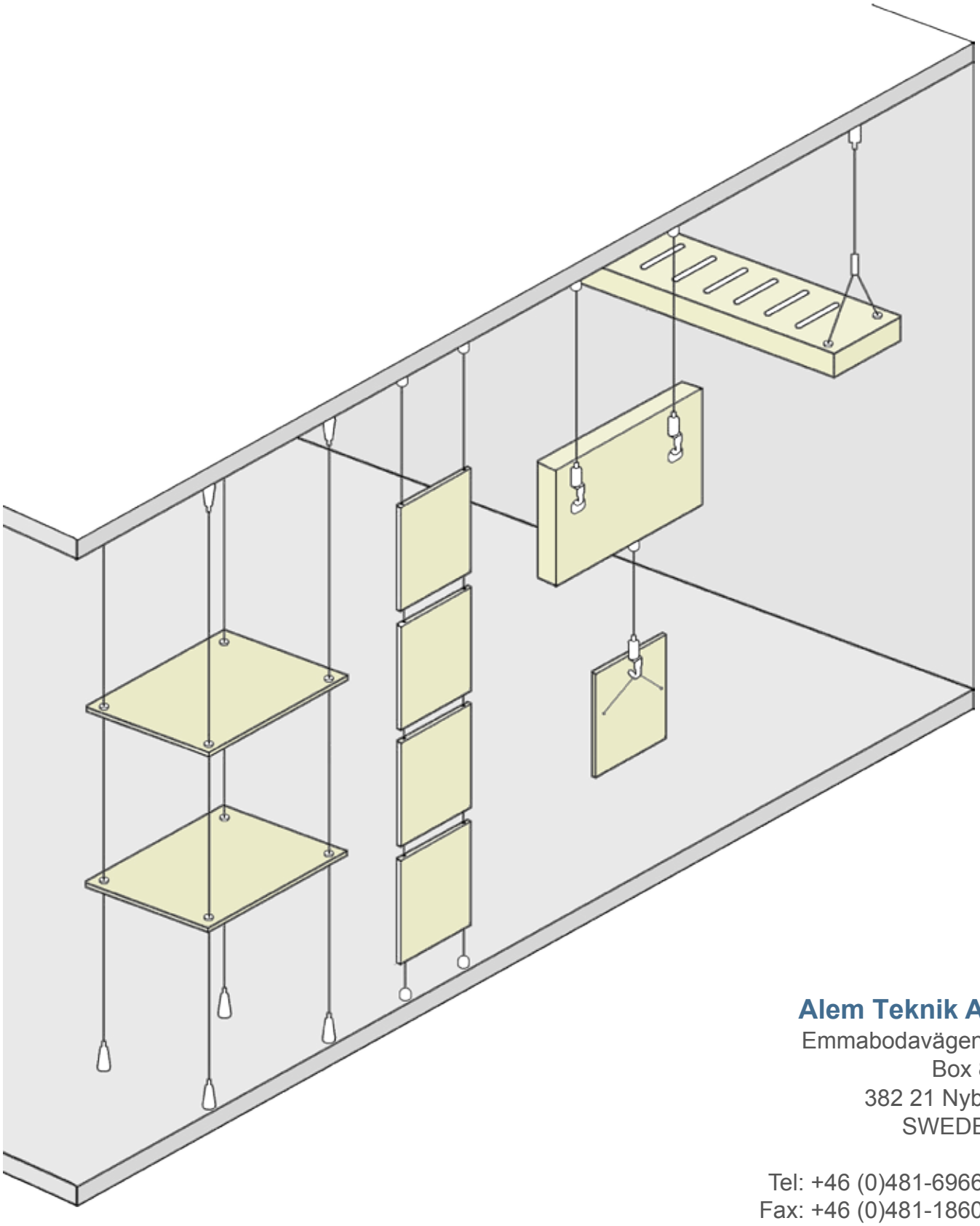
## Technical Support

Contact our technicians if you need technical advice or support when using our suspension systems.

## Caution

Beware of the risk for electrical shock when the wire enters an electrical appliance
Any attempt to manipulate the gripper mechanism voids all our liabilities
Impulses and vibrations can considerably reduce the total strength
Keep oils/fats away from the wire and grippers
Do not paint or coat the wire or grippers
Dust and small particles can clog the gripper mechanism
Combining other products with original Alem Teknik products voids our responsibility

# Suspension Systems



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