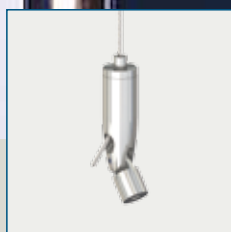
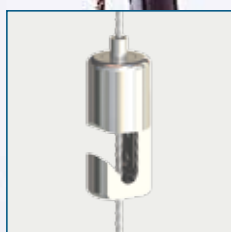


# Mini

## Type 10|12

- Lighting Fixtures
- Museums
- Interior Construction
- Shop Fittings



REUTLINGER<sup>®</sup>  
systematic suspension

## REUTLINGER – The only TÜV-certified holders



The TÜV-certificate –  
a safety guarantee from REUTLINGER.



### TÜV-certification

All REUTLINGER holders type 10  
and 12 have been certified

#### Holder type 10

Certificate-Nr.  
Z1A 0604 14229 027

#### Holder type 12

Certificate-Nr.  
Z1A 0604 14229 024

### REUTLINGER – the only TÜV-certified holders

The German TÜV is internationally renowned as a rigorous testing institution and is highly trusted by producers and consumers – especially for technical products.

The highest and most comprehensive level of TÜV-testing is GS-certification, denoting safe equipment and recognizable by the well-known blue sticker.

REUTLINGER is the world's only manufacturer of cable suspension systems that has succeeded in complying with the demands of GS-certification with every product line: our promise of safety confirmed by the TÜV.





Product design with  
3D-CAD-systems



Fully automatic cable-production  
with testing

**Loadable and flexible**

Whether you're suspending light or small loads: REUTLINGER holders are infinitely adjustable up and down the cable without tools.

Unscrew safety-cap, suppress plunger, slide the holder, release the plunger and screw down the safety-cap – that's it.

**REUTLINGER · Specialists for cable attachments and suspension** 04

**Technical Information** 05

**Type 10** 06

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Cable ends ..... 12

Cables ..... 13

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## REUTLINGER - Specialists for cable attachments and suspension



### From a traditional workshop into a global high-tech company

„Technology should help us reach our goals. Therefore REUTLINGER constantly strives for logic and simplicity in all our products. Every detail must be functional and each function must make sense.“

Wolf Reutlinger, who has lead the company since 1987, continued this tradition of craftsmanship while initiating innovative processes which opened up new applications and markets.

### More than meets the eye

The use of REUTLINGER fastening attachments always results in permanent connections.

This is the effect guaranteed by the self-locking mechanisms inside our holders. The elements devised specifically for this purpose are based on the following principle: the heavier the load – the greater the clamping force. For safe working loads (SWL) up to 400 kg.

By continually expanding the range of our products we were able to dominate the world market for suspended lighting fixtures within a few years. Today we are proud to count virtually all producers of high-quality lighting fixtures – as well as the automobile industry, sign- and shelf-manufacturers, galleries and museums – among our regular customers.

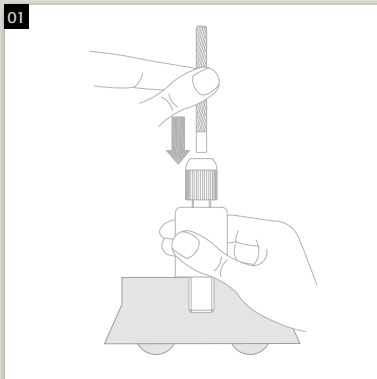
### Customer demands – a constant incentive to innovate

Highly qualified employees, the use of modern CAD systems and fully automated production facilities allow us to consistently turn out innovative products of unvarying high quality. We individually develop and manufacture our products in close cooperation with our customers. We put all our know-how at the disposal of our customers – from initial planning to detailed construction and manufacture right up to final installation.

### »Improve what is good, change what is ineffective«

Keeping an eye on quality and costs reflects this thinking – in all of our products. We pay special attention to the constant optimising of the following factors:

- increase loadability of the complete system
- reduce size to improve visual adaptability
- increase design variations
- reduce customers' installation time

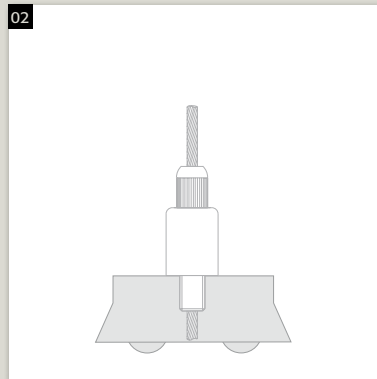


### Adjusting without tools

First, the knurled cap is unscrewed a few thread-turns so the cable can be inserted (see illustration 1).

Once the holder is put in place the cap is screwed down until firm resistance is felt. This pulls the cable into the cone (see illustration 2).

Vertical readjustment of the holder follows the same procedure (see illustration 3).

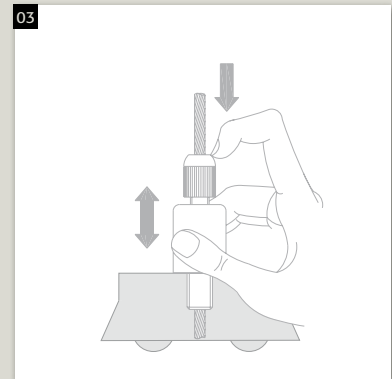


Inadvertent un-clamping through skewed loading or inattentiveness can no longer result in fallen loads.

We recommend occasional readjustment of the safety-cap.

### Safety-caps

Safety-caps prevent inadvertent release of the clamping mechanism inside the holders. That's why the plunger is threaded. Safety-caps are available in various versions.



- Cylindrical safety-caps available with cross knurling or vertical knurling (see p. 9)
- Domed safety-caps are available with cross- oder vertical knurling, or without

Cables			Recommended cables & Safe Working Loads		
Cable diameter	Cable material	cable construction	Serial number	Type 10	Type 12
0,8	stainless steel	6x7+1SE, 1.570 N/mm <sup>2</sup>	031.010.081	5 kg	
1,0	stainless steel	6x7+1SE, 1.570 N/mm <sup>2</sup>	031.010.101	6 kg	9 kg
	zinc plated	6x7+1SE, 2.300 N/mm <sup>2</sup>	015.580.111	9 kg	13 kg
1,2	stainless steel	6x7+1SE, 1.570 N/mm <sup>2</sup>	031.010.121		12 kg
	zinc plated	6x7+1SE, 2.300 N/mm <sup>2</sup>	015.580.121		16 kg

Chart 1: Recommended cables and Safe Working Loads

## Holder type 10 | 12

10

### Discreet – but always in a leading role

Holders type 10 and type 12 are the smallest members of the REUTLINGER product range. They are especially called for when the suspension of lighting fixtures or other objects should be nearly invisible.

Holders type 10 are usable in connection with cable-Ø from 0.8 mm to 1.0 mm. Holders type 12 are usable for cable-Ø from 0.8 mm to 1.2 mm.



Subtle integration into the  
suspended object



Numerous applications

The Holders are very small and easy to overlook. But they are distinguished by an extremely high loadability.

Numerous coupling attachments onto various holder types make holders type 10 and type 12 almost universally usable.

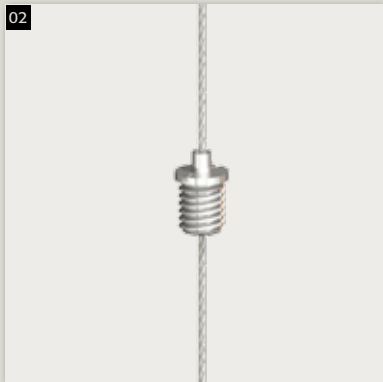
Holders have been certified by the German TÜV.

Central  
cable exit



**01**  
**Holder type 10**  
**M6x8**

Diameter	6 mm
Length	8 mm
Coupling thread	M6
Thread length	8 mm
Art. no.	193.008.000



**02**  
**Holder type 10**  
**M6x7 A7**

Diameter	7 mm
Length	8 mm
Coupling thread	M6
Thread length	7 mm
Art. no.	193.008.005



**04**  
**Holder type 10**  
**fork M4x8 with safety bolt**

Diameter	8 mm
Length	23 mm
Fork width	4 mm
Art. no.	193.008.002



**03**  
**Holder type 10**  
**Hook**

Diameter	9 mm
Length	20 mm
Art. no.	193.008.001



# Holder type 10

Cable diameter 0.8 mm to 1.0 mm (all illustrations to scale)



Holder in use  
(luminaire by TAL)

## Lateral cable exit



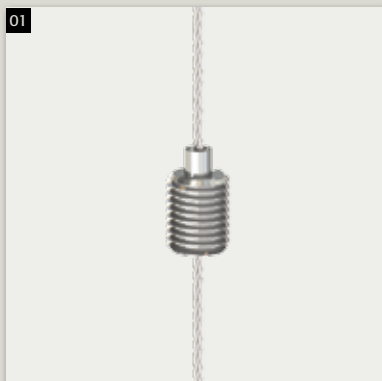
<b>01</b>	
<b>Holder type 10ZW</b>	
<b>M4x4</b>	
Diameter	7 mm
Length	19 mm
Coupling thread	M4
Usable thread depth	4 mm
Art. No.	193.008.007



<b>02</b>	
<b>Holder type 10ZW</b>	
<b>M4x4 slit 1,2 mm</b>	
<b>with set-screw M4x4</b>	
Diameter	7 mm
Length	19 mm
Art. No.	193.008.006



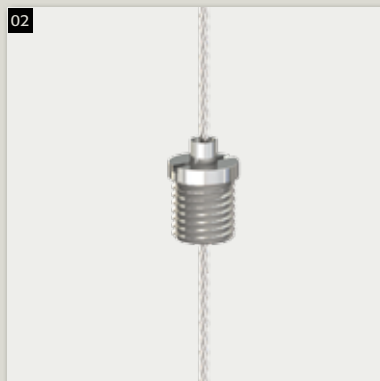


**01**
**Holder type 12  
M8x10**

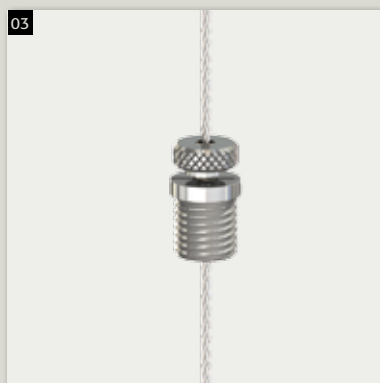
Diameter	8 mm
Length	10 mm
Coupling thread	M8
Thread length	10 mm
Art. No.	193.000.098

**Holder type 12V M8x10  
with knurled safety-nut M3**

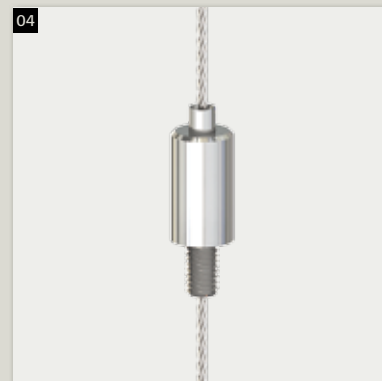
Diameter	8 mm
Length	10 mm
Coupling thread	M8
Thread length	8 mm
Art. No.	193.000.766

**02**
**Holder type 12  
M8x1 A9**

Diameter	9 mm
Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Art. No.	193.000.139

**03**
**Holder type 12 M8x1 A9  
with knurled safety-nut M3**

Diameter	9 mm
Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Art. No.	193.000.137

**04**
**Holder type 12  
M4x7 o.R.**

Diameter	8 mm
Length	21 mm
Coupling thread	M4
Thread length	6 mm
Art. No.	193.000.134

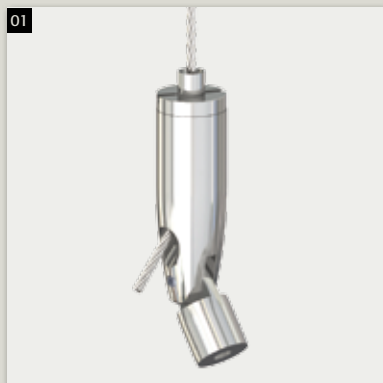
**Holder type 12  
M4x7 m. LR**

Diameter	8 mm
Length	21 mm
Coupling thread	M4
Thread length	6 mm
Art. No.	193.000.133

## Holder type 12

Cable diameter 0.8 mm to 1.2 mm (all illustrations to scale)

Lateral  
cable exit



**01**  
**Holder type 12ZW**  
**hinged M3x4**

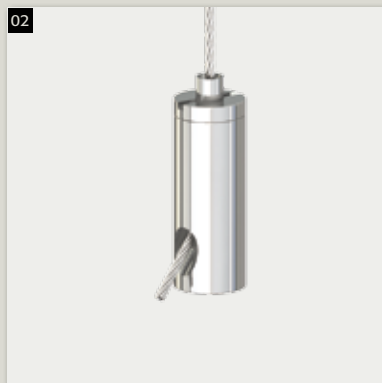
Diameter	9 mm
Length	32 mm
Coupling thread	M3
Usable thread depth	4 mm
Art. No.	193.002.075

**Holder type 12ZW**  
**hinged M4x4**

Diameter	9 mm
Length	32 mm
Coupling thread	M4
Usable thread depth	4 mm
Art. No.	193.000.798

**Holder type 12ZW**  
**hinged M5x4**

Diameter	9 mm
Length	32 mm
Coupling thread	M5
Usable thread depth	4 mm
Art. No.	193.000.887



**02**  
**Holder type 12ZW**  
**M3x4**

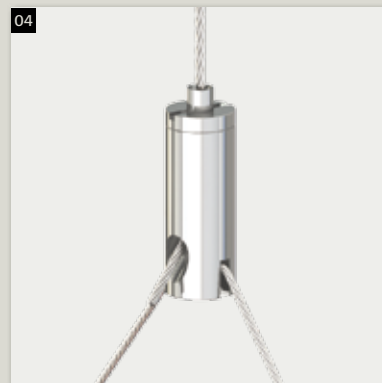
Diameter/Length	9/24 mm
Coupling thread	M3
Usable thread depth	4 mm
Art. No.	193.000.281

Coupling thread	M4
Art. No.	193.000.142
Coupling thread	M5
Art. No.	193.001.722



**03**  
**Holder type 12 ZW-NK**  
**with lateral cable exit**

Diameter/Length	8/26 mm
Flange width/depth from	3,5/8 mm
Flange height	2,5 mm
Art. No.	193.000.143



**04**  
**Y-Holder type 12ZW**  
**M4x4 Slit 1,6 mm**  
**with set-screw Mx6**

Diameter	9 mm
Length	24 mm
Slit	1,6 mm
Art. No.	193.000.136

**Y-Holder type 12ZW**  
**M4x4 Slit 1,6 mm**  
**with set-screw M4**

Art. No.	193.000.777
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**Y-Holder type 12ZW**  
**M4x4 lateral bore ø 1,6 mm**  
**with set-screw M4**

Art. No.	193.000.763
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## Special versions



### 01 Insulation holder type 12 on low-voltage power feed nickel plated

for cable diameter	1,0 - 1,2 mm
with and without insulating	
Length	10 mm
Diameter	9 mm
Art. No.	193.002.040



### 02 Holder type 12 ball ø 12

Diameter	12 mm
Art. No.	193.000.017



### 03 Holder type 12 N7x10

To attach securing- or clamping-plates	
Diameter	8 mm
Diameter	10 mm
Nut-ø	7 mm
Nuthöhe	1 mm
Length	10 mm
Art. No.	193.000.135



### 04 Sloped-Ceiling attachment Type 12, with M6i

Diameter	16 mm
Length	21 mm
Art. No.	193.000.207



### 05 Holder type 12 M8x1 A9 with fork 5x10 and safety-bolt

Diameter	10 mm
Length	28 mm
Fork width	5 mm
Fork length	16 mm
bolt-ø	5 mm
Art. No.	193.000.141

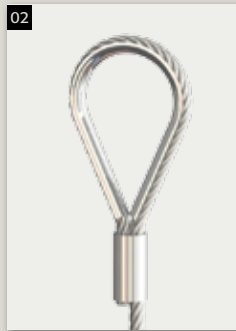
## Accessories | Cable ends

On demand cables with various cable-ends custom-made to fit individual suspensions (length, materials, diameter.)



**01**  
**Loop**

Dimensions according to drawing



**02**  
**Loop & thimble**

Dimensions according to drawing



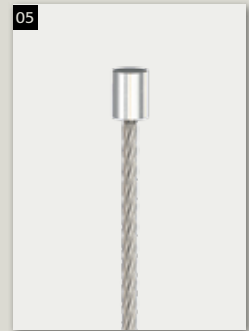
**03**  
**Threaded bolt**

Dimensions according to drawing, M4, M5



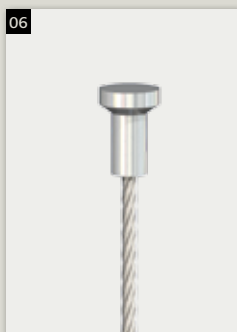
**04**  
**Eyelet**

for bolts-ø 5,0 mm



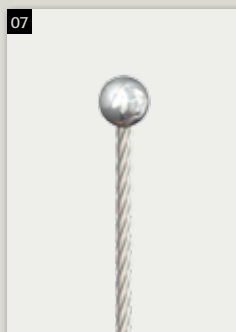
**05**  
**Cylinder sleeve**

ø 4,0 mm  
Length 6,0 mm



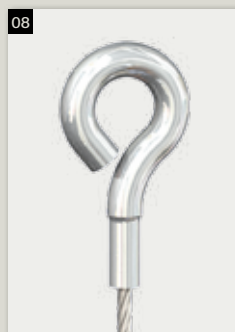
**06**  
**T-sleeve 02**

Head-ø 6,0 mm  
Length 8,5 mm



**07**  
**Ball-sleeve 36**

ø 6,0 mm



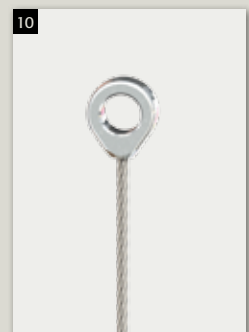
**08**  
**Wire eyelet**

for bolts-ø 7,0 mm  
Max. WLL 10 kg



**09**  
**Wire hook**

hook opening 4,0 mm



**10**  
**Z-eyelet ø 5mm**

ø 1,2 mm  
Length 10,0 mm

Cables			Terminals (cable ends)									
Cable diameter	Cable material	Cable construction	Illustration									
			1	2	3	4	5	6	7	8	9	10
0,8	Stainless	6x7+1SE 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•	•	•
1,0	Stainless	6x7+1SE 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•	•	•
	Galvanized	6x7+1SE 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•	•	•
1,2	Stainless	6x7+1SE 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•	•	•
	Galvanized	6x7+1SE 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•	•	•

Chart 2: Cables and cable-ends (• available)

## Cables for Holders

### 1. Materials and coatings

Cables are available in two degrees of durability

- 1.1. galvanized steel for normal indoor use;
- 1.2. stainless steel for exterior use and decorative requirements

### 2. Specific cable strength

Along with the standard strength cables with 1570 N/mm<sup>2</sup> we also offer high-tensile- strength cables with up to 2400 N/mm<sup>2</sup>. With these you get a higher system strength with the same cable diameter.

### 3. Cable construction

The new cables for Holders are all very flexible, no matter what construction. Therefore we normally offer only 6x7+WSC (aka 7x7). Should cables have to run on wheels, a special solution must be found.

### 4. Cable diameter

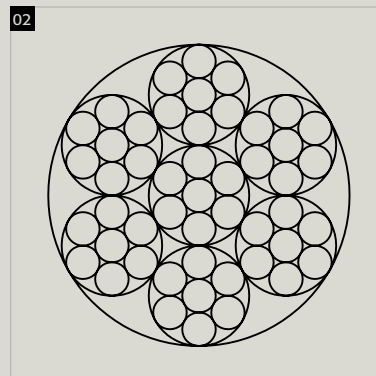
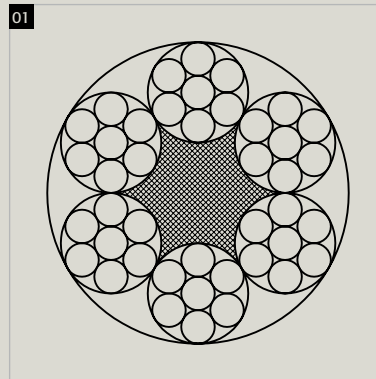
REUTLINGER offers cables from 0.8 mm to 1.2 mm suitable for Holders.

### 5. Use of other cables

REUTLINGER cables are free of tension, stress-free, not twisted and cut-proofed. When using other cables take care that cutting does not untwist the cable, because it's possible that they will not fit into the holder after they have been tinned.

### 6. Individual solutions

Let us help you choose the best solution among our variety of cable ends.



01 DIN EN 12385-4 6x7+1FSC

02 DIN EN 12385-4 6x7+1WSC

## Attaching power-feeds to cables



### 03 Cable clip ›Flex Plus small‹

Power-feed-ø	5,0 - 8,0 mm
Cable-ø	1,0 - 2,0 mm
Colour	Art. No.
black	029.006.598
white	029.006.595
grey	029.006.596
transparent	029.006.597

### Cable clip ›Flex Plus large‹

Power-feed-ø	7,0 - 10,5 mm
cable-ø	1,0 - 2,0 mm
Colour	Art. No.
black	029.006.592
white	029.006.590
grey	029.006.593
transparent	029.006.594

### Cable clip ›Flex Standard‹

Power-feed-ø	6,0 - 8,0 mm
Cable-ø	1,0 - 1,6 mm
Colour	Art. No.
black	029.005.124
white	029.005.123
transparent	029.005.249

## Accessories | Ceiling attachments

### Single piece ceiling attachments



01

#### Ceiling attachment M6i o.R. SW7

Diameter	8 mm
Length	20 mm
Coupling thread	M6i
Wrench opening	7 mm
Art. No.	029.004.078



02

#### Ceiling attachment M6i m.R.

Diameter	10 mm
Length	20 mm
Coupling thread	M6i
Art. No.	029.006.200

### Two-piece ceiling attachments



03

#### Ceiling attachment M8x1

Diameter	11 mm
Diameter	9 mm
Length	14 mm
Coupling thread	M8x1
with M6i Art. No.	193.001.380



04

#### Ceiling attachment M10x1

Diameter	16 mm
Diameter	12 mm
Length	115 mm
Coupling thread	M10x1
with M6i Art. No.	193.000.116

### Options



05

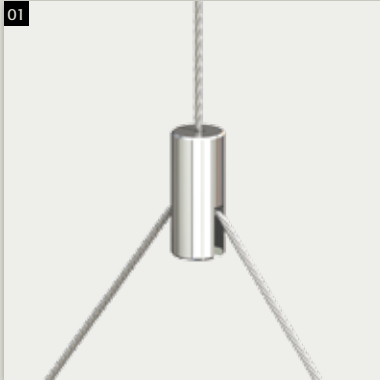
#### Screw cap M8x1 ›Quick‹ with Slit

Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Art. No.	029.005.732
German utility patent	20.2004 005 788.3

#### Screw cap M10x1 ›Quick‹ with Slit

Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Art. No.	029.005.705
German utility patent	20.2004 005 788.3

### Y-coupling parts



01

#### Combination Y-coupling part M5x5 with Slit and set-screw M5x6

for cable- $\varnothing$  1,0 -1,5 mm

Diameter 6 mm

Length 17 mm

Thread length 5 mm

Art. No. 193.000.028



02

#### Combination Y-coupling part M5x5 with lateral bore and set-screw M5x6

for cable- $\varnothing$  1,0 -1,5 mm

Diameter 6 mm

Length 17 mm

Thread length 5 mm

Art. No. 193.000.898

### Ceiling holder



03

#### Ceiling attachment M8x1 with Slit and Holder Type 12 M8x1 A9

Diameter 11 mm

Length 22 mm

Coupling thread M8x1

Thread length 8 mm

Art. No. 193.000.819



04

#### Ceiling attachment M10x1 with Slit and Holder Type 15 M10x6 A

Diameter 16 mm

Length 24 mm

Anschlussgewinde M10x1

Thread length 12 mm

Art. No. 193.000.427

Further solutions  
by request!





**Please request  
the following catalogs:**

**Standard**

Holders & Accessories  
Type 15, 18, 20

**Heavy Load**

Holders & accessories  
Type 25, 30, 50, 80

**Shop | Display**

Presentation – and Shelving –  
Systems for retail applications

**Gallery**

Suspension systems for galleries  
and exhinits

**Rigging & Event Technology**

Holders and Accessories  
Type 50SV II and Type 80SV II

Have we gotten you interested?  
Do you have questions concerning  
technical details? Please give us a  
call!

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Dipl. Ing. Wolf Reutlinger  
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