

# Standard

## Type 15 | 18 | 20


- Luminaire
- Museum
- Interior fittings



REUTLINGER<sup>®</sup>  
systematic suspension

## The only TÜV-certified holders

ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ СЕРТИФИКАТ ♦ 認証証書




Product Service

# CERTIFICATE

No. Z1A 13 03 14229 043

**Holder of Certificate:** **Reutlinger GmbH**  
 Offenbacher Landstr. 190  
 60599 Frankfurt  
 GERMANY

**Certification Mark:**


**Product:** **Cable glider  
Type 15**


**Tested according to:** PPP 52347A:2012

The product meets the safety and health requirements of the German Product Safety Act section 20 to 22 ProdSG. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. See also notes overleaf.

**Test report no.:** 713020858


**Valid until:** 2018-03-13



**Date,** 2013-03-14   
 (Edgar Hamisch)

Page 1 of 2

TÜV SÜD Product Service GmbH - Zertifizierstelle - Ridlerstraße 65 - 80339 München - Germany



The TÜV-certificate –  
a safety guarantee from REUTLINGER



### TÜV-certification

All REUTLINGER holders type 15,  
18 and 20 have been certified

#### Holder Type 15

Certificate-No.  
Z1A 13 03 14229 043

#### Holder Type 18 & 20

Certificate-No.  
Z1A 13 03 14229 042

### 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 recognisable by the well-known blue sticker.

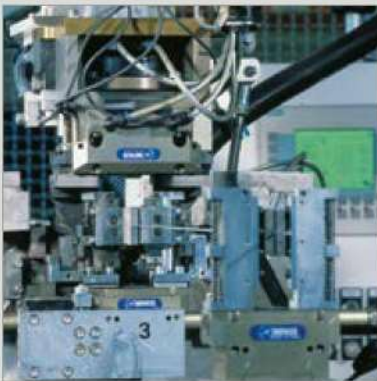
REUTLINGER is the world's only manufacturer of cable suspension systems that has succeeded in complying with the demands of GS-certification with every product line. Our promise: safety confirmed by the TÜV.



Cover picture:  
suspended lamp ›Platos‹  
by courtesy of Schmitz-Leuchten  
GmbH & Co. KG  
[www.schmitz-leuchten.de](http://www.schmitz-leuchten.de)



Product design with 3D-CAD-systems



Fully automatic cable-production with testing

**Loadable & flexible**

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 15 06**

Central cable exit without knurl ..... 06

Lateral cable exit without knurl ..... 08

Central and lateral cable exit with knurl .....10

Special versions ..... 11

**Type 18 14**

Central cable exit without knurl ..... 14

Lateral cable exit without knurl ..... 17

Special versions ..... 20

Central cable exit with knurl ..... 21

Lateral cable exit with knurl ..... 23

**Type 20 24**

Central cable exit ..... 21

**Stainless holders & ceiling attachments 26**

Stainless holders ..... 26

Stainless ceiling attachments ..... 27

**Cables · Accessories 28**

1 or 2 piece ceiling attachments ..... 28

Combinations ..... 31

Ball joint holders and attachments ..... 32

Track clips | Y-coupling parts ..... 34

Canopies ..... 36

Cables | Cable Clips ..... 37

Cable Ends ..... 38

**Contact 40**



## REUTLINGER - Specialists for cable attachments and suspensions



### 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 automotive 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

**WILHELM REUTLINGER**  
MECHAN. SEILERWAREN-  
HANF- U. DRAHTSEIL-FABRIK  
— FRANKFURT A. M. —

## Adjusting without tools

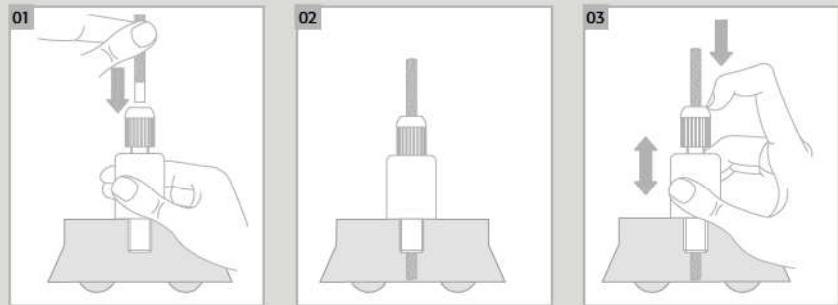
First, the knurled cap is unscrewed a few thread-turns so the cable can be inserted (see illustration 1).

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

## Working loads & cables

A system's SWL equals 20% of its breaking load. Holders with 6-ball mechanisms show an SWL of 20% above the 3-ball version.

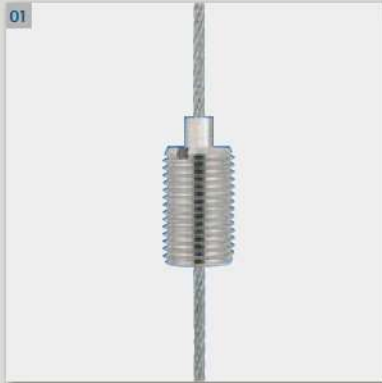
Cables				Safe working loads					
ø mm	Material	Surface	Construction/specific strength	Art. No.	Type 15	Type 18	Type 18 S	Type 20	Type 20 S
1,0	Stainless Steel	Stainless Steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	031.010.101	8 kg	7 kg	8 kg	7 kg	8 kg
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	015.580.111	13 kg	12 kg	14 kg	12 kg	14 kg
1,2	Stainless Steel	Stainless Steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	031.010.121	12 kg	10 kg	12 kg	10 kg	12 kg
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	015.580.121	16 kg	20 kg	24 kg	20 kg	24 kg
1,5	Stainless Steel	Stainless Steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	031.010.151	16 kg	16 kg	20 kg	16 kg	19 kg
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	015.580.151	25 kg	29 kg	35 kg	29 kg	34 kg
1,8	Stainless Steel	Stainless Steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	031.010.175	-	30 kg	36 kg	30 kg	36 kg
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	015.580.175	-	34 kg	41 kg	34 kg	40 kg
2,0	Stainless Steel	Stainless Steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	031.010.201	-	-	-	38 kg	45 kg
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	015.580.201	-	-	-	55 kg	66 kg

Chart 1: Recommended cables and Safe Working Loads

# Holder Type 15

Cable diameter 1.0 to 1.5 mm (all illustrations in original size)

Central cable exit  
without knurl (o.R.)



**01**  
Holder Type 15  
M10x16

Diameter	10 mm
Length	16 mm
Coupling thread	M10x1
Thread length	16 mm
Ser. no.	193.000.150
Optional with safety-cap	
Art. Nr.	193.000.843



**02**  
Holder Type 15  
M10x6A

Flange diameter	12 mm
Length	16 mm
Coupling thread	M10x1
Thread length	14 mm
Ser. no.	193.000.155
Optional with safety-cap	
Art. Nr.	193.000.216



**03**  
Holder Type 15  
fork 6x12 with safety bolt

Width	12 mm
Length	33.5 mm
Fork width	6 mm
Bolt diameter	6 mm
Ser. no.	193.000.167

**Holder Type 15  
fork 6x24 with safety bolt**

Width	10 mm
Length	45.5 mm
Fork width	6 mm
Bolt diameter	6 mm
Ser. no.	193.000.168

**Holder Type 15  
fork 8x16 with safety bolt**

Width	14 mm
Length	44.5 mm
Fork width	8 mm
Bolt diameter	8 mm
Ser. no.	193.000.169



**04**  
Holder Type 15  
M10x14B

Flange diameter	13 mm
Length	16 mm
Coupling thread	M10x1
Thread length	14 mm
Ser. no.	193.000.153



**05**  
Holder Type 15  
Bo3

Width	9 mm
Length	24 mm
Bore-ø	3.2 mm
Ser. no.	193.000.147





Central cable exit  
without knurl (o.R.)



**01**  
**Holder Type 15  
hook**

Safe working load	15 kg
Diameter	10 mm
Length	30 mm
Opening width of hook	6.5 mm
Exterior diameter	15.5 mm
Interior diameter	10 mm
Ser. no.	193.000.163
Optional with safety-cap	
Art. Nr.	193.000.624



**02**  
**Safety design holder  
Type 15 hook**

with locking clip	
Diameter	10.5 mm
Length	35 mm
Opening width of hook	8 mm
Ser. no.	193.001.400
Optional with safety-cap	
Art. Nr.	193.000.419

European utility patent  
000 169 594 0001 + 0002



**03**  
**Holder Type 15  
ring**

Diameter	10 mm
Length	30 mm
Exterior diameter	18 mm
Interior diameter	10 mm
Ser. no.	193.000.159
Optional with safety-cap	
Art. Nr.	193.000.625

# Holder Type 15

Cable diameter 1.0 to 1.5 mm (all illustrations in original size)

Lateral cable exit  
without knurl

15



01

### Holder Type 15 ZW M3x5

Diameter	9 mm
Length	28.5 mm
Coupling thread/length	M3i/5 mm
Ser. no.	193.000.183

### Holder Type 15 ZW M4x5

Diameter	9 mm
Length	28.5 mm
Coupling thread/length	M4i/5 mm
Ser. no.	193.000.179

### Holder Type 15 ZW M5x5

Diameter	9 mm
Length	28.5 mm
Coupling thread/length	M5i/5 mm
Ser. no.	193.000.180

### Holder Type 15 ZW M6x5

Diameter	9 mm
Length	28.5 mm
Coupling thread/length	M6i/5 mm
Ser. no.	193.000.122



02

### Y-Holder Type 15 ZW M5x5, slit 2.0 mm with set screw

with lateral cable exit  
for Y-cable suspensions

Diameter	9 mm
Length	29.6 mm
Coupling thread	M5i
Slit width	2 mm
Ser. no.	193.000.184

### Y-Holder Type 15 ZW M6x6, slit 2.6 mm with set screw

with lateral cable exit  
for Y-cable suspensions

Diameter	9 mm
Length	29.6 mm
Coupling thread	M6i
Slit width	2,6 mm
Ser. no.	193.000.188



03

### Y-Holder Type 15 ZW M5x6, lateral bore 2.0 mm with set screw

with lateral cable exit  
for Y-cable suspensions

Diameter	9 mm
Length	29.6 mm
Coupling thread	M5i
Lateral bore	2 mm
Ser. no.	193.000.175



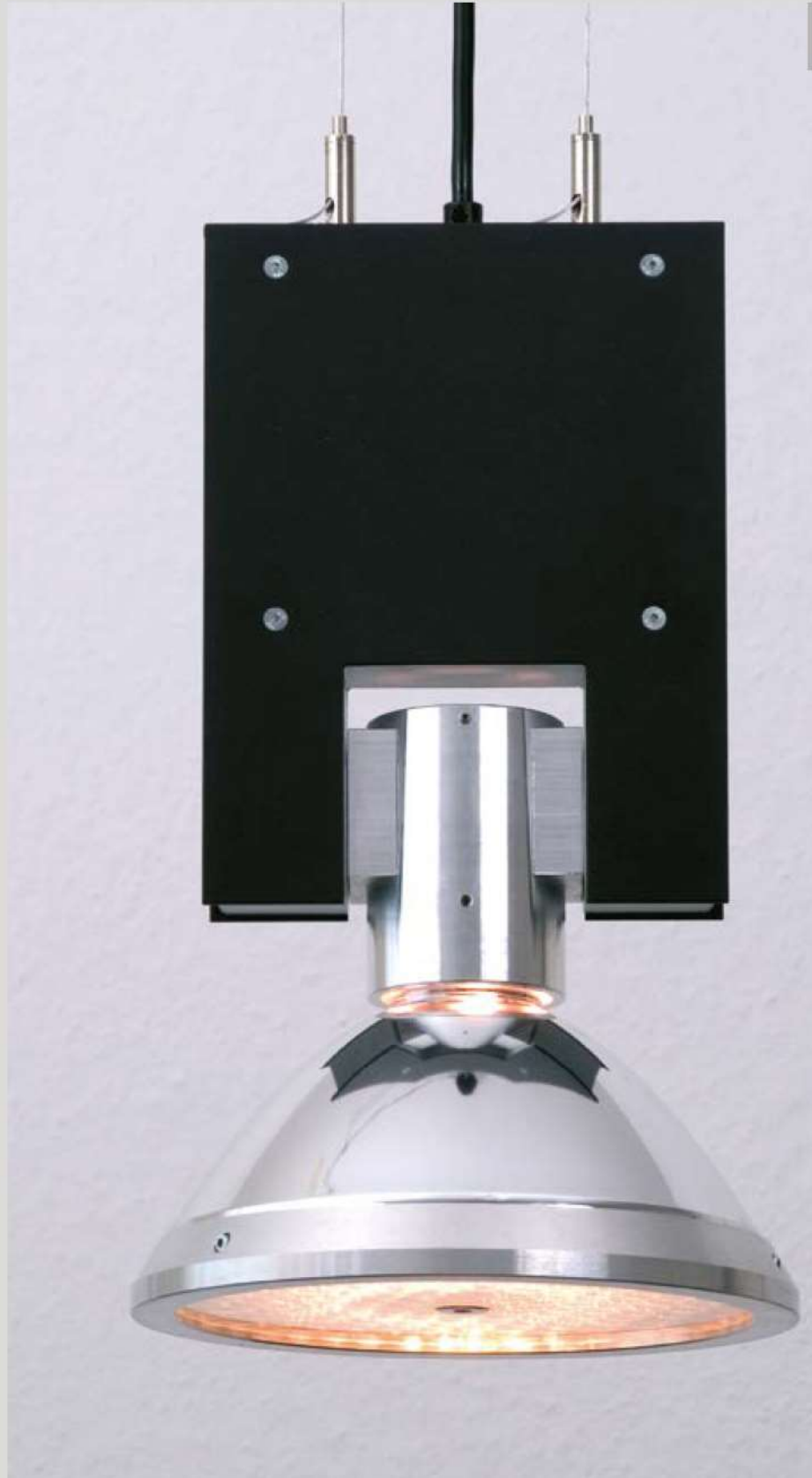


**Lateral cable exit  
without knurl**



**Y- cable holder type 15 ZW Q 2  
mm with locking screw**

Diameter	9 mm
Length	29 mm
Coupling thread	M5i
Thread length	6 mm
Crosshole	2 mm
Ser. no.	193.000.863
Optional with safety-cap	
Art. Nr.	193.000.958



Pendant fixture  
Bartenbach Baureihe 99 Werfer 3  
Spectral Gesellschaft für  
Lichttechnik mbH, Freiburg

# Holder Type 15

Cable diameter 1.0 to 1.5 mm (all illustrations in original size)

Lateral cable exit  
without knurl



**01**  
Holder Type 15 ZW  
hinged M4i

Diameter	9 mm
Length	35.5 mm
Coupling thread	M4i
Usable thread depth	4 mm
Ser. no.	193.000.194

**Holder Type 15 ZW  
hinged M5i**

Diameter	9 mm
Length	35.5 mm
Coupling thread	M5i
Thread length	4 mm
Ser. no.	193.000.339

Lateral cable exit  
with knurl



**02**  
Cable holder type 15 ZW  
M6 m. R.

Diameter	9 mm
Length	30 mm
Coupling thread	M6
Thread length	8 mm
Ser. no.	193.002.737

Central cable exit  
with knurl



**03**  
Holder Type 15  
M6x7 m.R.

Diameter	9.3 mm
Length	23.6 mm
Coupling thread	M6
Thread length	7 mm
Ser. no.	193.000.212

**Holder Type 15  
M8x7 m.R.**

Diameter	9.3 mm
Length	23.6 mm
Coupling thread	M8
Thread length	7 mm
Ser. no.	193.000.211

**Note**

m.R. - with knurl



Special versions



**01**  
Cable holder type 15  
N11x1.2

Diameter	13 mm
Length	16 mm
Two times graded groove	1.2 mm
Ser. No.	193.006.940



**02**  
Cable holder type 15 ZW  
groove 3 mm

Diameter	12 mm
Length	29.6 mm
Groove	3 mm
Ser. No.	193.000.223



**03**  
Cable holder type 15 ZW  
NK

Diameter	9 mm
Length	28.4 mm
Groove	2 mm
Ser. No.	193.000.172



**03**  
Cable holder type 15 ZW  
with set screw M4x14 and  
sliding block 20x3 mm

Diameter	9 mm
Length	29 mm
Coupling thread	M4i
Thread length	10 mm
Ser. No.	193.001.859



**05**  
Holder Type 15  
M5x152Q

Diameter	16 mm
Width	12 mm
Bolt length	15 mm
Coupling thread	M5
Ser. no.	193.000.171





# Holder Type 15

Cable diameter 1.0 to 1.5 mm (all illustrations in original size)

## Special versions

15



01  
Holder Type 15  
B20

Diameter	10 mm
Flange diameter	20 mm
Length	16 mm
Ser. no.	193.000.146



02  
Holder Type 15 K6

Diameter	10 mm
Length	22 mm
Coupling thread	M6
Usable thread depth	6 mm
Ser. no. (without knurl)	193.001.739
Ser. no. (with knurl)	193.000.161



04  
Cable holder type 15  
Top K20

Pull the plunger to unlock  
the mechanism

Diameter	10 mm
Flange diameter	20 mm
Length	22 mm
Ser. no.	193.001.720

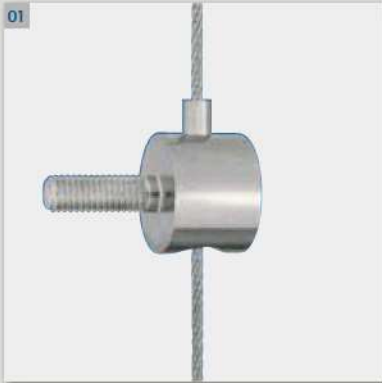


03  
Holder Type 15  
5N10x1.5

Diameter	12 mm
Flange diameter	16 mm
Groove	10 mm
Length	16.5 mm
Ser. no.	193.000.144

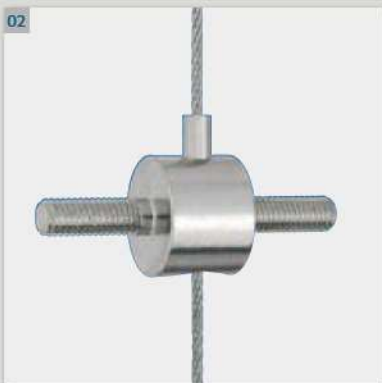


## Special versions



01  
**Holder Type 15**  
**M5x15Q**

Diameter	16 mm
Width	12 mm
Bolt length	15 mm
Coupling thread	M5
Ser. no.	193.000.174
Optional with safety-cap	
Art. Nr.	193.000.337



02  
**Holder Type 15**  
**M5x152Q**

Diameter	16 mm
Width	12 mm
Bolt length	15 mm
Coupling thread	M5
Ser. no.	193.000.171



Pendant fixture HYBRID Type/Modell LXP 254  
Herbert Waldmann GmbH & Co. KG  
Villingen-Schwenningen

# Holder Type 18

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

Central cable exit  
without knurl

18



**01**  
**Holder Type 18**  
**M5x10**

Diameter	10 mm
Length	28 mm
Coupling thread	M5
Thread length	10 mm
Ser. no.	193.000.001

**Holder Type 18**  
**M6x8**

Diameter	10 mm
Length	28 mm
Coupling thread	M6
Thread length	8 mm
Ser. no.	193.000.003

**Holder Type 18**  
**M8x5**

Diameter	10 mm
Length	28 mm
Coupling thread	M8
Thread length	8 mm
Ser. no.	193.000.005



**02**  
**Holder Type 18**  
**M13x4B**

Diameter	10 mm
Flange diameter	16 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	6 mm
Ser. no.	193.000.082



**03**  
**Holder Type 18**  
**M13x7B**

Diameter	10 mm
Flange diameter	16 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	4.6 mm
Ser. no.	193.000.077



**04**  
**Holder Type 18**  
**M13x13B**

Diameter	13 mm
Flange diameter	24 mm
Collar diameter	22 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	15 mm
Ser. no.	193.000.090





Central cable exit  
without knurl



**01**  
**Holder Type 18**  
**fork 8x16**

with safety bolt	
Width	14 mm
Length	44.5 mm
Fork width	8 mm
Bolt diameter	8 mm
Ser. no.	193.000.378



**02**  
**Holder Type 18**  
**M8x5 with fork 6x12; M8i**

with safety bolt	
Width	12 mm
Length	51 mm
Fork width	6 mm
Bolt diameter	6 mm
Ser. no.	193.000.833



**04**  
**Safety design holder Type 18**  
**hook**

with locking clip, max. breaking load 25 kg	
Length	36 mm
Opening width of hook	8 mm
Interior diameter	12 mm
Exterior diameter	23 mm
Ser. no.	193.001.512
Optional with safety-cap	
Art. Nr.	193.006.696



**03**  
**Holder Type 18**  
**hook**

Diameter	10 mm
Length	36 mm
Exterior diameter	22 mm
Interior diameter	12 mm
Opening width of hook	6 mm
Ser. no.	193.000.121

# Holder Type 18

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

Central cable exit  
without knurl

18



**01**  
**Holder Type 18**  
**ring**

Diameter	10 mm
Length	38 mm
Exterior diameter	24 mm
Interior diameter	14 mm
Ser. no.	193.000.120

Also available with 6 balls:

Ser. no.	193.000.093
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**02**  
**Holder Type 18**  
**Bo4**

Width	10 mm
Length	32 mm
Flange length	12 mm
Bore diameter	4.2 mm
Ser. no.	193.000.015



**03**  
**Holder Type 18 2**  
**Bo3**

Width	10 mm
Length	40 mm
Flange length	20 mm
Bore diameter	3.2 mm
Ser. no.	193.000.047



**04**  
**Cable holder type 18/20**  
**K8**

Pull the plunger to unlock  
the mechanism.

Diameter	12 mm
Length	39 mm
Coupling thread	M8
Usable thread depth	6 mm
Bolt length	8 mm
Ser. No.	193.000.897



**Lateral cable exit  
without knurl (o.R.)**



**01**  
**Holder Type 18 ZW  
M4i**

Diameter	10 mm
Length	34.5 mm
Coupling thread	M4i
Thread length	6 mm
Ser. no.	193.000.051

**Holder Type 18 ZW  
M5i**

Diameter	10 mm
Length	34.5 mm
Coupling thread	M5i
Thread length	6 mm
Ser. no.	193.000.053

**Holder Type 18 ZW  
M6i**

Diameter	10 mm
Length	34.5 mm
Coupling thread	M6i
Thread length	6 mm
Ser. no.	193.000.055

**Holder Type 18 ZW  
M8i**

Diameter	10 mm
Length	34.5 mm
Coupling thread	M8i
Thread length	6 mm
Ser. no.	193.000.076



**02**  
**Y-Holder Type 18 ZW  
M6i slit 2.5  
with set screw**

with lateral cable exit for Y-cable suspensions	
Diameter	10 mm
Length	34.5 mm
Coupling thread	M6i
Slit width	2.5 mm
Ser. no.	193.000.087



**03**  
**Y-Holder Type 18 ZW  
M5i lateral bore 2.5  
with set screw**

with lateral cable exit for Y-cable suspensions	
Diameter	10 mm
Length	34.5 mm
Coupling thread	M5i
Lateral bore	2.5 mm
Ser. no.	193.000.084

**Y-Holder Type 18 ZW  
M6i lateral bore 4.5  
with set screw**

with lateral cable exit for Y-cable suspensions	
Diameter	10 mm
Length	34.5 mm
Coupling thread	M5i
Lateral bore	4.5 mm
Ser. no.	193.000.085
Lateral bore	2.5 mm
Ser. no.	193.000.086





# Holder Type 18

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

18



Fixture ›Zirkel  
Spectral Gesellschaft für  
Lichttechnik mbH

## Lateral cable exit without knurl



### Holder Type 18 ZW hinged M5

Diameter	10 mm
Length	46.5 mm
External thread	M5
Thread length	8 mm
Ser. no.	193.000.064

#### Other external threads

M6	Ser. no.	193.000.066
M8	Ser. no.	193.000.069
M10x1	Ser. no.	193.000.072



### Holder Type 18 ZW hinged M5i

Diameter	10 mm
Length	46.5 mm
Internal thread	M5i
Thread length	7 mm
Ser. no.	193.000.063

#### Other internal threads

M4i	Ser. no.	193.000.067
M6i	Ser. no.	193.000.065
M8i	Ser. no.	193.000.068



**Lateral cable exit  
without knurl**



**Holder Type 18 ZW  
M8x7**

Diameter	10 mm
Length	42 mm
Coupling thread	M8
Thread length	7 mm
Ser. no.	193.000.057



**Holder Type 18 ZW  
M10x1**

Diameter	10 mm
Length	34.5 mm
Coupling thread	M10x1
Thread length	6 mm
Ser. no.	193.000.107



Multifunctional system  
H-profile with glass cylinder  
Spectral Gesellschaft für Lichttechnik mbH  
Freiburg

# Holder Type 18

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

## Special versions

18



**01**  
Holder Type 18 ZW  
NG

Length	34.5 mm
Width of bar (W)	3.5 mm
Groove height (G)	3.0 mm
Foot height (F)	2.5 mm
Diameter (D)	10.0 mm
Ser. no.	193.000.059

**Holder Type 18 ZW  
NK**

Length	33.5 mm
Width of bar (W)	3.5 mm
Groove height (G)	2.0 mm
Foot height (F)	2.5 mm
Diameter (D)	8.0 mm
Ser. no.	193.000.062



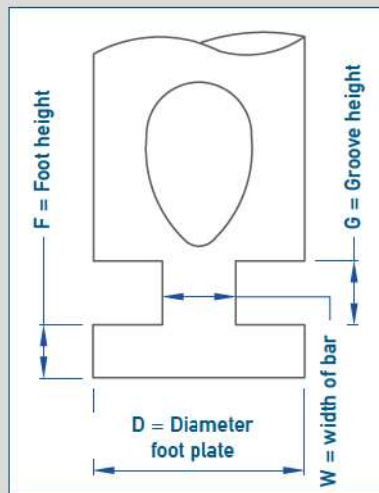
**02**  
Holder Type 18 ZW  
M13x4B18

Length	42.5 mm
Diameter (D)	18.0 mm
Foot height (F)	2.0 mm
Coupling thread	M13x1
Thread length	6.0 mm
Ser. no.	193.000.106



**03**  
Holder Type 18 ZW  
NK with locking nut M10x1

Length	31.6 mm
Width of bar (W)	4.0 mm
Groove height (G)	5.5 mm
Foot height (F)	1.5 mm
Diameter (D)	8.0 mm
Ser. no.	193.000.078



We recommend a test of breaking load with the profile used.



**Central cable suspension  
with knurl**



**01**  
**Holder Type 18**  
**M5x10 m.R.**

Diameter	10 mm
Length	30 mm
Coupling thread	M5
Thread length	10 mm
Ser. no.	193.000.000

**Holder Type 18**  
**M6x8 m.R.**

Diameter	10 mm
Length	28 mm
Coupling thread	M6
Thread length	8 mm
Ser. no.	193.000.002

**Holder Type 18**  
**M8x5 m.R.**

Diameter	10 mm
Length	27 mm
Coupling thread	M8
Thread length	7 mm
Ser. no.	193.000.004

**Note**  
m.R. - with knurl



**02**  
**Holder Type 18 V**  
**M8x5 m.R.**  
with safety nut

Diameter	10 mm
Length	27 mm
Coupling thread	M8
Thread length	7 mm
Ser. no.	193.000.010



**03**  
**Holder Type 18**  
**M13x8 m.R.**

Diameter	10 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	8 mm
Ser. no.	193.000.070



**04**  
**Holder Type 18**  
**M13x8A m.R.**

Diameter	10 mm
Flange diameter	16 mm
Collar diameter	14 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	10 mm
Ser. no.	193.000.200





# Holder Type 18

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)



BLUEmotion  
Trilux GmbH & Co. KG  
Arnsberg

## Central cable suspension with knurl



01  
**Holder Type 18  
M13x4B m.R.**

Diameter	10 mm
Flange diameter	16 mm
Length	20.5 mm
Coupling thread	M13x1
Thread length	10 mm
Ser. no.	193.000.080



03  
**Holder Type 18  
2N12x1.4 m.LR.**

to be attached with securing- or clamping-washers (Art. 029.003.566)

Diameter	13 mm
Groove diameter	12 mm
Complete length	24 mm
Ser. no.	193.000.060



02  
**Holder Type 18  
B18 m.R.**

Diameter	12.8 mm
Flange diameter	18 mm
Length	21.5 mm
Ser. no.	193.000.049



**Lateral cable exit  
with knurl**



**01**

**Holder Type 18 ZW  
M4i m.R.**

---

Diameter	10 mm
Length	34.5 mm
Coupling thread	M4i
Thread length	6 mm
Ser. no.	193.000.052

**Holder Type 18 ZW  
M5i m.R.**

---

Diameter	10 mm
Length	34.5 mm
Coupling thread	M5i
Thread length	6 mm
Ser. no.	193.000.054

**Holder Type 18 ZW  
M6i m.R.**

---

Diameter	10 mm
Length	34.5 mm
Coupling thread	M6i
Thread length	6 mm
Ser. no.	193.000.056

**Note**

m.R. - with knurl



**02**

**Cable holder type 18 VZW  
M6i with safety cap**

---

Diameter	10.3 mm
Length	34,6 mm
Coupling thread	M6i
Thread length	6 mm
Ser. no.	



**03**

**Holder Type 18 ZW  
M13x4B16 m.R.**

---

Diameter	10 mm
Flange diameter	16 mm
Length	39.5 mm
Coupling thread	M13x1
Thread length	6 mm
Ser. no.	193.000.105

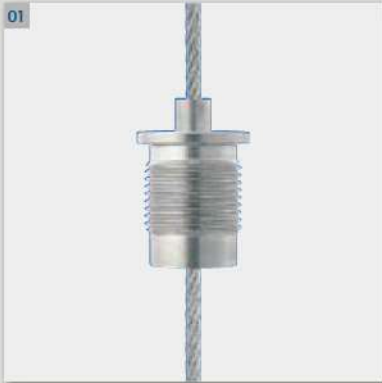


# Holder Type 20

Cable diameter 1.0 to 2.0 mm (all illustrations in original size)

Central  
cable exit

20



01  
**Holder Type 20**  
**M13x10A**

Diameter	13 mm
Flange diameter	15 mm
Length	18 mm
Coupling thread	M13x1
Thread length	10 mm
Ser. no. (3-ball)	193.000.100
Ser. no. (6-ball)	193.000.222



02  
**Holder Type 20**  
**M16x12A**

Diameter	16 mm
Flange diameter	18 mm
Length	18 mm
Coupling thread	M16x1
Thread length	12 mm
Ser. no. (3-ball)	193.000.226
Ser. no. (6-ball)	193.000.225



03  
**Cable holder type 20**  
**Bo4 spoke**

Breaking load	180 kg
Diameter	10 mm
Length	36 mm
Flange length	11.7 mm
Bore diameter	4.2 mm
Ser. no.	193.001.854



### Central cable exit



### 01 Cable holder type 20 hook PA

For suspension with  
polyamide-wire

Breaking load	25 kg
Diameter	11 mm
Length	39 mm
Opening width of hook	5.9 mm
Ser. No.	193.001.606



Fixture ›HYBRID‹  
Type/Modell DHPL 254-12  
Herbert Waldmann GmbH & Co. KG  
Villingen-Schwenningen



## Stainless holders

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

### Lateral cable exit



01

#### Stainless steel Y-Holder type 18 ZW M6i with slit 2,5 mm

Diameter	10 mm
Length	34,5 mm
Coupling thread	M6i
Slit width	2,5 mm
Ser. No.	193.006.795

02



02

#### Stainless steel holder type 18 ZW M6i

Diameter	10 mm
Length	34,5 mm
Coupling thread	M6i
Ser. No.	193.006.826

### Central cable exit



03

03

#### Stainless steel holder type 18 M6x8

Diameter	10 mm
Length	29 mm
Coupling thread	M6i
Thread length	8 mm
Ser. No.	193.006.835

### Zweiteilige Deckenbefestiger M10x1



01

01

#### Stainless steel ceiling attachment M10x1, M6i with stainless steel screw cap

Diameter	12 mm
Flange diameter	16 mm
Length	15 mm
Ser. No.	032.006.077

## Stainless ceiling attachments

### Schraubkappen M10x1



02

### Stainless steel screw M10x1 with slit

Diameter	12 mm
Length	10 mm
Ser. No.	032.006.078

03



03

### Stainless steel screw cap M10x1 ›Quick‹

With slit to clip the cable  
from the side

Diameter	12 mm
Length	10 mm
Slit width	2,2 mm
Ser. No.	032.006.080



Pendant fixture ›Straight‹  
Type/Modell LXP 254  
Herbert Waldmann GmbH & Co. KG  
Villingen-Schwenningen



## Accessories | Ceiling attachments

### Single piece ceiling attachments



**01**

**Ceiling attachment M6i SW7**

Diameter	8 mm
Length	20 mm
Coupling thread	M6i
Collar diameter	7 mm
Bore-ø	2.2 mm
Ser. no.	029.004.078



**02**

**Ceiling attachment M6i m.R.**

Diameter	10 mm
Length	20 mm
Coupling thread	M6i
Bore-ø	2.2 mm
Ser. no.	029.006.200

### Two piece ceiling attachments M8x1



**03**

**Ceiling attachment M8x1 short**

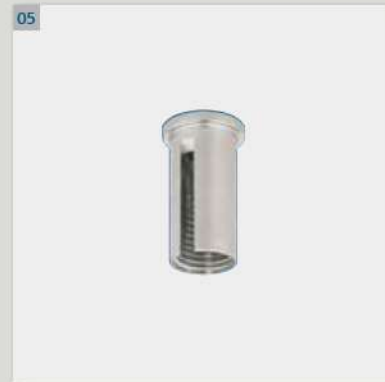
Flange diameter	11 mm
Diameter	9 mm
Length	14 mm
Coupling thread	M8x1
with M6i Ser. no.	029.006.203
without M6i Ser. no.	029.006.201



**04**

**Screw cap M8x1**

Diameter	9 mm
Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Bore-ø	2 mm
Ser. no. (without knurl)	029.006.030
Ser. no. (with knurl)	029.006.085



**05**

**Ceiling attachment M8x1 with slit**

Flange diameter	11 mm
Diameter	9 mm
Length	20 mm
Coupling thread	M8x1
with M6i Ser. no.	029.006.044
without M6i Ser. no.	029.006.031



**06**

**Screw cap M8x1 ›Quick‹**

with slit	
Diameter	9 mm
Length	10 mm
Coupling thread	M8x1
Thread length	8 mm
Slit width	2,0 mm
Ser. no.	029.005.732

German utility patent  
20.2004 005 788.3

#### Note

m.R. - with knurl



### Two piece ceiling attachments M10x1



**01**  
Ceiling attachment M10x1; M6i short

Flange diameter	16 mm
Diameter	12 mm
Length	15 mm
Coupling thread	M10x1
Ser. no.	029.006.007



**03**  
Ceiling attachment M10x1; M6i with bore

Flange diameter	16 mm
Diameter	12 mm
Length	26 mm
Coupling thread	M10x1
Ser. no.	029.006.010



**05**  
Ceiling attachment M10x1; M6i with slit

Flange diameter	16 mm
Diameter	12 mm
Length	26 mm
Coupling thread	M10x1
Ser. no. (with slit)	029.006.012
Ser. no. (without slit)	029.006.009



**02**  
Screw cap M10x1 with slit

Diameter	12 mm
Length	10 mm
Coupling thread	M10x1
Thread length	8 mm
Bore-ø	2.2 mm
Ser. no. (without knurl)	029.006.011
Ser. no. (with knurl)	029.006.090



**04**  
Screw cap M10x1 ›Quick‹ with slit

Diameter	12 mm
Length	10 mm
Coupling thread	M10x1
Thread length	8 mm
Slit width	2,5 mm
Ser. no.	029.005.705

German utility patent  
20.2004 005 788.3

### REUTLINGER Track-Clips Clamping attachments for T-bars of ceiling grids

With REUTLINGER track-clips (page 34) cable pending objects can be clamped on T-bars of standard ceiling grids without tools.

Track-clips will be delivered with individual matched coupling-varieties (clip/cable).

Please demand our special brochure or ask for further details.



## Accessories | Ceiling attachments

### Two piece ceiling attachments M13x1



01

#### Ceiling attachment M13x1

Flange diameter	20 mm
Diameter	16 mm
Length	21 mm
Coupling thread	M13x1
Ser. no. (with M6i)	029.006.003
Ser. no. (without M6i)	029.006.024



02

#### Screw cap M13x1 with bore 2.4 mm SW14

Diameter	16 mm
Length	12 mm
Coupling thread	M13x1
Thread length	10 mm
Collar diameter	14 mm
Ser. no. (without knurl)	029.006.002
Ser. no. (with knurl)	029.006.080



03

#### Ceiling attachment M13x1 with bore

Flange diameter	20 mm
Diameter	16 mm
Length	21 mm
Coupling thread	M13x1
Ser. no. (with M6i)	029.006.001
Ser. no. (without M6i)	029.006.042



04

#### Screw cap M13x1

##### »Quick«

with slit	
Diameter	16 mm
Length	12 mm
Coupling thread	M13x1
Thread length	10 mm
Slit width	2,5 mm
Ser. no.	029.006.055

German utility patent  
20.2004 005 788.3



05

#### Ceiling attachment M13x1; M6i long with slit

Flange diameter	20 mm
Diameter	16 mm
Length	34 mm
Coupling thread	M13x1
Ser. no.	029.006.005

#### Ceiling attachment M13x1; M6i short with slit

Flange diameter	20 mm
Diameter	16 mm
Length	21 mm
Coupling thread	M13x1
Ser. no.	029.006.004

#### Screw cap M13x1 with bore 3.5 mm

Diameter	16 mm
Length	12 mm
Coupling thread	M13x1
Thread length	10 mm
Ser. no.	029.006.016

### Combinations of ceiling attachment and screw cap



**01**  
Ceiling attachment M8x1, M6i short and screw cap M8x1 with bore 2 mm

Diameter	9 mm
Flange diameter	11 mm
Complete length	16 mm
Ser. no.	193.001.380



**02**  
Ceiling attachment M10x1; M6i short and screw cap M10x1

Diameter	12 mm
Flange diameter	16 mm
Complete length	17 mm
Ser. no.	193.000.116



**03**  
Ceiling attachment M10x1, M6i and screw cap M10x1 with bore 2.2 mm

Diameter	12 mm
Flange diameter	16 mm
Complete length	28 mm
Ser. no.	193.000.012



**04**  
Ceiling attachment M10x1, M6i and screw cap M10x1 with bore 2.2 mm

With directional borehole in the ceiling attachment	
Diameter	12 mm
Flange diameter	16 mm
Complete length	28 mm
Ser. no.	193.000.540



**05**  
Ceiling attachment M13x1; M6i short and screw cap M13x1 with bore 2.4 mm SW 14

Diameter	16 mm
Flange diameter	20 mm
Complete length	23 mm
Ser. no.	193.005.245



**06**  
Ceiling attachment M13x1; M6i and screw cap M13x1 with bore 3.5 mm

Diameter	16 mm
Flange diameter	20 mm
Complete length	23 mm
Ser. no.	193.005.206

## Ceiling attachments

Combinations of ceiling attachment and holder



01

**Ceiling attachment M10x1; M6i with bore and holder  
Type 15 M10x6A**

Diameter	12 mm
Flange diameter	16 mm
Complete length	28 mm
Ser. no.	193.000.289



02

**Ceiling attachment M10x1, M6i with slit and holder  
Type 15 M10x6A**

Diameter	12 mm
Flange diameter	16 mm
Complete length	28 mm
Ser. no.	193.000.427



03

**Ceiling holder Type 15 ZW M10x1 ›cone‹ and ceiling plate M10x1**

Diameter top	20 mm
Diameter bottom	9 mm
Complete length	33 mm
Ser. no. (with Logo)	193.000.197

**Ball joint holders  
for sloped ceilings**



01

**Ball joint holder Type 15**

With ceiling plate	
Diameter	24 mm
Complete length	28 mm
Coupling thread	M6i
Ser. no.	193.000.166

**Ball joint attachments  
for sloped ceilings**



02

02

**Ball joint attachment  
small**

With ceiling plate	
Diameter	15 mm
Complete length	21 mm
Slit width	2.1 mm
Coupling thread	M6i
Ser. no.	193.000.177



04

04

**Ball joint attachment  
small 360°**

With ceiling plate	
Diameter	16 mm
Flange diameter	19 mm
Coupling thread	M6i
Ser. No.	193.003.177



03

03

**Ball joint attachment  
big**

With ceiling plate	
Diameter	24 mm
Complete length	28 mm
Slit width	4.5 mm
Coupling thread	M6i
Ser. no.	193.000.170



## Ceiling attachments

### REUTLINGER Track-Clips Clamping attachments for T-bars of ceiling grids

With REUTLINGER track-clips (page 25) cable pending objects can be clamped on T-bars of standard ceiling grids without tools.

Track-clips will be delivered with individual matched coupling-varieties (clip/cable).



**01**  
**Track-Clip ›Premium‹**  
**M6x11, white RAL 9003**

with spring clamp,  
for track 25 mm

Bolt	M6x11 mm
Ser. no.	029.005.135

**Track-Clip ›Premium‹**  
**M6x7, white RAL 9016**

with spring clamp,  
for track 25 mm

Bolt	M6x7 mm
Ser. no.	029.007.030



**02**  
**Track-Clip ›Premium‹**  
**M6x11, galvanized**

mit Federklammer,  
für Schiene 25 mm

Bolt	M6x11 mm
Ser. no.	029.005.335



**03**  
**Track-Clip ›Premium‹**  
**with bore ø 4.3 mm,**  
**white RAL 9003**

with spring clamp,  
for track 25 mm

Bore-ø	4,3 mm
Ser. no.	029.005.423



**01**  
Track-Clip ›Profi‹  
M6x10, white RAL 9003

with snap nob,  
for track 25 mm

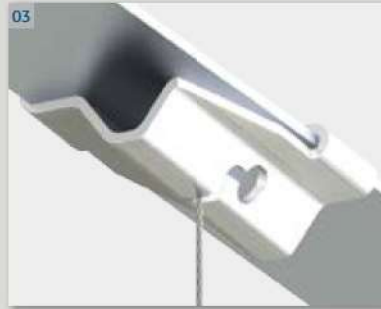
Bolt M6x10 mm  
Ser. no. 029.006.027



**02**  
Track-Clip ›Standard‹  
with eyelet ø 5.6 mm,  
white RAL 9003

with snap nob,  
for track 25 mm

Internal-ø eyelet 5.6 mm  
Ser. no. 029.005.243



**03**  
Track-Clip  
with lateral bore ø 5.1 mm,  
white RAL 9010

usable only with ball sleeve 35,  
with snap nob, for track 25 mm

Bore-ø 5,1 mm  
Ser. no. 029.005.440



**04**  
Track-Clip  
with bore ø 5.1 mm,  
white RAL 9010

usable only with ball sleeve 34,  
with snap nob, for track 25 mm

Bore-ø 5,1 mm  
Ser. no. 029.006.356

### Y-Koppelteile



**05**  
Combination of Y-coupling part  
M5x5 with slit and set screw  
M5x6

for cable-ø 1.0 to 1.5 mm

Diameter 6 mm  
Length 17 mm  
Ser. no. 193.000.028

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

for cable-ø 1.0 to 1.5 mm

Diameter 6 mm  
Length 17 mm  
Ser. no. 193.000.898

## Accessories | Canopies

Canopies are hollow bodies of plastic used to conceal electrical connections, usually on ceilings. They cover the power-feed exit to be connected to the appliance wiring. Therefore canopies assure not only safety (protection from exposed power-feeds), but also a decorative appearance by covering ungainly wiring.



01

### Multi-canopy

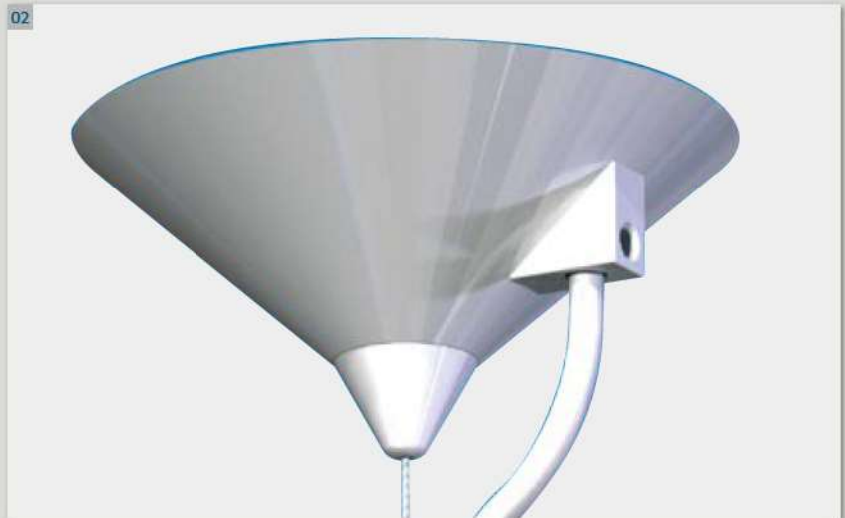
Power-feed and load-suspension in one for the easiest installation without tools.

with power-feed

Ser. no. 029.009.000

### Technical specifications

- VDE-approbation
- Voltage: 250 V
- Current: 16/6 A (trough-switching/tapping light-fixture), multipolar (5), suitable for looping through
- Loadability 20 kg
- Diameter  $\varnothing$  75 mm, Height 56 mm



02

### Universal-canopy cone $\varnothing$ 115x57

silver (similar to RAL 9022)

max. breaking load 20 kg

Power feed- $\varnothing$  up to 7 mm

Cable- $\varnothing$  from/to 0.8 - 2.0 mm

Cone- $\varnothing$  115 mm

Height 57 mm

Ser. no. 029.005.184

### Universal-canopy cone $\varnothing$ 115x57

See above, but white (similar to RAL 9010)

Ser. no. 029.005.183



03

### Standard-canopy cylinder $\varnothing$ 31x56

white (similar to RAL 9001), without loading function, with inside fixing screw

Cable- $\varnothing$  from/to 0.8 - 1.8 mm

Cylinder- $\varnothing$  31 mm

Height 56 mm

Ser. no. 029.005.261



04

### Universal-canopy Cylinder $\varnothing$ 67x90

white (similar to RAL 9010), without loading function, with inside fixing screw

Power feed- $\varnothing$  up to 11.6 mm

Cable- $\varnothing$  from/to 1.0 - 2.5 mm

Cylinder- $\varnothing$  67 mm

Height 90 mm

Ser. no. 029.005.127

### Universal-canopy Cylinder $\varnothing$ 67x90

See above, but black (similar to RAL 9011)

Ser. no. 029.005.128

Other canopies on demand!



**Cables for holders**

**1. Materials + surfaces**

Cables are available in two degrees of durability

- 1.1 galvanized steel for normal interior use
- 1.2 stainless steel for exterior use and decorative applications

**2. Specific cable strength**

We offer high-tensile-strength cables with up to 2300 N/mm<sup>2</sup>. With these you get a higher system strength with the same cable diameter.

**3. Cable constructions**

You can choose between different cable constructions.

Please note:

- 3.1 cables with steel core have a higher strength than those with a fiber core but they are less flexible.
- 3.2. Cables running on pulleys should have fiber cores.

**4. Cable diameter**

REUTLINGER offers holders suitable for cables from 0.8 mm to 2.0 mm diameter.

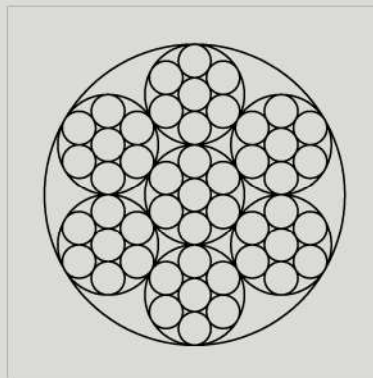
**5. Using other cables**

REUTLINGER-cables are stress-free, not twisted and cut-proof.

When using other cables, take care that cutting does not untwist the cable, because it is possible that they do not fit into the holder after they have been tinned.

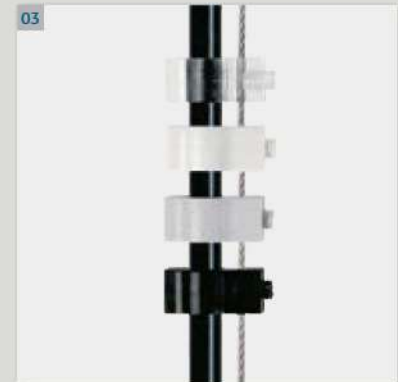
**6. Individual solutions**

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



**Tip:**  
Cables do not need to be greased or oiled

**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	Ser. no.
black	029.006.595
white	029.006.598
grey	029.006.596
transparent	029.006.597

German utility patent  
400 04 183.9

**Cable clip ›Flex Plus large‹**

Power feed-ø	7.0 - 10.5 mm
Cable-ø	1.0 - 2.0 mm
Colour	Ser. no.
black	029.006.592
white	029.006.590
grey	029.006.593
transparent	029.006.594

German utility patent  
400 04 183.9

**Cable clip ›Flex Standard‹**

Power feed-ø	6.0 - 8,0 mm
Cable-ø	1.0 - 1.6 mm
Colour	Ser. no.
black	029.005.124
white	029.005.123
transparent	029.005.249



## Accessories | Cable ends

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



01	02	03	04	05	06
<b>Loop</b>	<b>Loop &amp; thimble</b>	<b>Threaded bolt</b>	<b>Eyelet</b>	<b>Cylindrical sleeve 13</b>	<b>Cylindrical sleeve 07</b>
Dimensions according to drawing	Dimensions according to drawing	Dimensions according to drawing M4, M5, M6	for bolt- $\varnothing$ 5.0 mm	$\varnothing$ 3,5 mm Length 4,6 mm	$\varnothing$ 4,8 mm Length 5,2 mm

Cables				Cable ends							
$\varnothing$ mm	Material	Surface	Construction	(01) Loop	(02) Loop & thimble	(03) Threaded bolt			(04) Eyelet	(05) Cylindrical sleeve 13	(06) Cylindrical sleeve 07
						M4	M5	M6			
1.0	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
1.2	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
1.5	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
1.8	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•	•	•	•	•
2.0	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•						•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•						•

Table 2: Cables with cable ends (\* available)

Sleeves will be manufactured by swaging or injection molding. Swaged sleeves can also be manufactured with hexagonal shaft. Some stainless steel cables could also be supplied in 2,300 N/mm<sup>2</sup> strength.



07	08	09	10	11	12
<b>T-sleeve</b> 02	<b>Ballsleeve</b> 36	<b>Wire eyelet</b>	<b>Wire hook</b>	<b>Wire hook with locking clip</b>	<b>Forged eyelet</b>
Head-ø 6.0 mm Shaft-ø 3.5 mm Length 8.5 mm	ø 6.0 mm	for bolt-ø 6.0 mm Safe working load 10 kg	Hook opening 4.0 mm Safe working load 10 kg	Hook opening 4.0 mm	for bolt-ø 8.0 mm Complete length 45 mm

Cables				Cable ends					
ø mm	Material	Surface	Construction	(07) T-sleeve 02	(08) Ballsleeve 36	(09) Wire eyelet	(10) Wire hook	(11) Wire hook with locking clip	(12) Forged eyelet
1.0	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•		
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•		
1.2	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•	•	
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•	•	
1.5	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•	•	•		•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•	•	•		•
1.8	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>	•	•				•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>	•	•				•
2.0	Stainless steel	Stainless steel	DIN EN 12385-4, 7x7, 1.570 N/mm <sup>2</sup>		•				•
	Steel	Silver zinc-plated	DIN EN 12385-4, 7x7, 2.300 N/mm <sup>2</sup>		•				•

Table 3: Cables with cable ends (\* available)