Standard 2007
Type 15|18|20

- Luminaire
- Museum
- Interior fittings
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.

The only TÜV-certified holders

The only TÜV-certified holders

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.

The TÜV-certificate – a safety guarantee from REUTLINGER
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.

<table>
<thead>
<tr>
<th>Cables · Accessories</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopies</td>
<td>22</td>
</tr>
<tr>
<td>1 or 2 piece ceiling attachments</td>
<td>23</td>
</tr>
<tr>
<td>Combinations</td>
<td>27</td>
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<tr>
<td>Y-coupling parts</td>
<td>28</td>
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<tr>
<td>Cables</td>
<td>29</td>
</tr>
<tr>
<td>Cable Clips</td>
<td>29</td>
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<tr>
<td>Cable Ends</td>
<td>30</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Type 15</th>
<th>06</th>
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</thead>
<tbody>
<tr>
<td>Central cable exit without knurl</td>
<td>06</td>
</tr>
<tr>
<td>Lateral cable exit without knurl</td>
<td>08</td>
</tr>
<tr>
<td>Central cable exit with knurl</td>
<td>10</td>
</tr>
<tr>
<td>Special versions</td>
<td>10</td>
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<table>
<thead>
<tr>
<th>Type 18</th>
<th>12</th>
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<tr>
<td>Central cable exit without knurl</td>
<td>12</td>
</tr>
<tr>
<td>Lateral cable exit without knurl</td>
<td>14</td>
</tr>
<tr>
<td>Special versions</td>
<td>17</td>
</tr>
<tr>
<td>Central cable exit with knurl</td>
<td>18</td>
</tr>
<tr>
<td>Lateral cable exit with knurl</td>
<td>20</td>
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<table>
<thead>
<tr>
<th>Type 20</th>
<th>21</th>
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</thead>
<tbody>
<tr>
<td>Central cable exit</td>
<td>21</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Loadable &amp; flexible</th>
<th>04</th>
</tr>
</thead>
<tbody>
<tr>
<td>REUTLINGER holders are infinitely adjustable up and down the cable, without tools.</td>
<td></td>
</tr>
<tr>
<td>Unscrew safety-cap, suppress plunger, slide the holder, release the plunger and screw down the safety-cap – that’s it.</td>
<td></td>
</tr>
</tbody>
</table>

| Fully automatic cable-production with testing | 04 |

| Product design with 3D-CAD-systems | 04 |

| Product review | 04 |
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

**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.
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.

---

### Technical Information

#### Chart 1: Recommended cables and Safe Working Loads

<table>
<thead>
<tr>
<th>Cable diameter</th>
<th>Cable material</th>
<th>Construction/Specific strength of cable</th>
<th>Art. No.</th>
<th>Type 15</th>
<th>Type 18</th>
<th>Type 18 S</th>
<th>Type 20</th>
<th>Type 20 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>stainless steel</td>
<td>6x7+1SE, 1,570 N/mm²</td>
<td>031.010.101</td>
<td>8 kg</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+1SE, 2,300 N/mm²</td>
<td>015.580.111</td>
<td>10 kg</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1.2</td>
<td>stainless steel</td>
<td>6x7+1SE, 1,570 N/mm²</td>
<td>031.010.121</td>
<td>10 kg</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+1SE, 2,300 N/mm²</td>
<td>015.580.121</td>
<td>15 kg</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1.5</td>
<td>stainless steel</td>
<td>6x7+1SE, 1,570 N/mm²</td>
<td>031.010.151</td>
<td>16 kg</td>
<td>16 kg</td>
<td>20 kg</td>
<td>16 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+1SE, 2,300 N/mm²</td>
<td>015.580.151</td>
<td>25 kg</td>
<td>25 kg</td>
<td>30 kg</td>
<td>25 kg</td>
<td>30 kg</td>
</tr>
<tr>
<td>1.8</td>
<td>stainless steel</td>
<td>6x7+1SE, 1,570 N/mm²</td>
<td>031.010.175</td>
<td>16 kg*</td>
<td>23 kg</td>
<td>28 kg</td>
<td>23 kg</td>
<td>28 kg</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+1SE, 2,300 N/mm²</td>
<td>015.580.175</td>
<td>25 kg*</td>
<td>30 kg</td>
<td>36 kg</td>
<td>30 kg</td>
<td>36 kg</td>
</tr>
<tr>
<td>2.0</td>
<td>stainless steel</td>
<td>6x7+1SE, 1,570 N/mm²</td>
<td>031.010.201</td>
<td>-</td>
<td>-</td>
<td>28 kg</td>
<td>28 kg</td>
<td>33 kg</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+1SE, 2,300 N/mm²</td>
<td>015.580.201</td>
<td>-</td>
<td>-</td>
<td>36 kg</td>
<td>40 kg</td>
<td>48 kg</td>
</tr>
</tbody>
</table>

* only after consultation

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#### 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.
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

02 Holder Type 15
M10x6A
Flange diameter 12 mm
Length 16 mm
Coupling thread M10x1
Thread length 14 mm
Ser. no. 193.000.155

03 Holder Type 15
tork 6x12 with safety bolt
Width 12 mm
Length 33.5 mm
Fork width 6 mm
Bolt diameter 6 mm
Ser. no. 193.000.167

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
tork 8x16 with safety bolt
Width 14 mm
Length 44.5 mm
Fork width 8 mm
Bolt diameter 8 mm
Ser. no. 193.000.169

06 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.)*

<table>
<thead>
<tr>
<th>Holder Type 15</th>
<th>Holder Type 15</th>
<th>Holder Type 15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>hook</strong></td>
<td><strong>hook strong</strong></td>
<td><strong>ring</strong></td>
</tr>
<tr>
<td>Safe working load</td>
<td>15 kg</td>
<td>Forged brass</td>
</tr>
<tr>
<td>Diameter</td>
<td>10 mm</td>
<td>Diameter</td>
</tr>
<tr>
<td>Length</td>
<td>30 mm</td>
<td>Length</td>
</tr>
<tr>
<td>Opening width of hook</td>
<td>6.5 mm</td>
<td>Opening width of hook</td>
</tr>
<tr>
<td>Exterior diameter</td>
<td>15.5 mm</td>
<td>Exterior diameter</td>
</tr>
<tr>
<td>Interior diameter</td>
<td>10 mm</td>
<td>Ser. no.</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.163</td>
<td></td>
</tr>
</tbody>
</table>

**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 |

European utility patent

000 169 594 0001 + 0002
Holder Type 15

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

Lateral cable exit without knurl (o.R.)

Holder Type 15ZW M3i o.R.
Diameter 9 mm
Length 28.5 mm
Coupling thread/length M3i/5 mm
Ser. no. 193.000.183

Holder Type 15ZW M4i o.R.
Diameter 9 mm
Length 28.5 mm
Coupling thread/length M4i/5 mm
Ser. no. 193.000.179

Holder Type 15ZW M5i o.R.
Diameter 9 mm
Length 28.5 mm
Coupling thread/length M5i/5 mm
Ser. no. 193.000.180

Holder Type 15ZW M6i o.R.
Diameter 9 mm
Length 28.5 mm
Coupling thread/length M6i/5 mm
Ser. no. 193.000.122

Y-Holder Type 15ZW M5i o.R., slit 2.0 mm with set screw
with lateral cable exit for Y-cable suspensions
Diameter 9 mm
Length 29.6 mm
Slit width 2 mm
Ser. no. 193.000.184

Y-Holder Type 15ZW M6i o.R., 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

Note
m.R. = with knurl
o.R. = without knurl
Lateral cable exit
without knurl (o.R.)

**Holder Type 15ZW**
**hinged M4i o.R.**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>9 mm</td>
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<tr>
<td>Length</td>
<td>35.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M4i</td>
</tr>
<tr>
<td>Thread length</td>
<td>4 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.194</td>
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</tbody>
</table>

**Holder Type 15ZW**
**hinged M5i o.R.**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>9 mm</td>
</tr>
<tr>
<td>Length</td>
<td>35.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M5i</td>
</tr>
<tr>
<td>Thread length</td>
<td>4 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.339</td>
</tr>
</tbody>
</table>

Pendant fixture  
Bartenbach Baureihe 99 Werfer 3  
Spectral Gesellschaft für Lichttechnik mbH, Freiburg
**Holder Type 15**

**Central cable exit with knurl (m.R.)**

01

Holder Type 15
M6x7 m.R.

| Diameter: 9.3 mm | Length: 23.6 mm | Coupling thread: M6 | Usable thread depth: 7 mm | Ser. no.: 193.000.212 |

Holder Type 15
M8x7 m.R.

| Diameter: 9.3 mm | Length: 23.6 mm | Coupling thread: M8 | Usable thread depth: 7 mm | Ser. no.: 193.000.211 |

**Note**

m.R. = with knurl
o.R. = without knurl

**Special versions**

02

Holder Type 15
N9x1.2

to be attached with securing- or clamping-washers (Art. 029.003.577)

| Diameter: 10 mm | Flange diameter: 12 mm | Groove diameter: 9 mm | Length: 16 mm | Ser. no.: 193.000.162 |

03

Holder Type 15
K18

| Diameter: 18 mm | Height: 16 mm | Ser. no.: 193.000.165 |

04

Holder Type 15
B20

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

05

Holder Type 15
K6 o.R.

| Diameter: 10 mm | Length: 22 mm | Coupling thread: M6 | Usable thread depth: 6 mm | Ser. no.: 193.001.739 |

Holder Type 15
K6 m.R.

| Diameter: 10 mm | Length: 22 mm | Coupling thread: M6 | Usable thread depth: 6 mm | Ser. no.: 193.000.161 |

**Note**

m.R. = with knurl
o.R. = without knurl
**Holder Type 15**

01  **Holder Type 15**  
**SN10x1.5**  
| Diameter | 12 mm |
| Flange diameter | 16 mm |
| Groove | 10 mm |
| Length | 16.5 mm |
| Ser. no. | 193.000.144 |

02  **Holder Type 15**  
**M5x15Q**  
| Diameter | 16 mm |
| Width | 12 mm |
| Bolt length | 15 mm |
| Coupling thread | M5 |
| Ser. no. | 193.000.174 |

03  **Holder Type 15**  
**M5x152Q**  
| Diameter | 16 mm |
| Width | 12 mm |
| Bolt length | 15 mm |
| Coupling thread | M5 |
| Ser. no. | 193.000.171 |
Central cable exit
without knurl (o.R.)

**Holder Type 18**

**M5x10 o.R.**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>30 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M5</td>
</tr>
<tr>
<td>Thread length</td>
<td>10 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.001</td>
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</table>

**Holder Type 18**

**M6x8 o.R.**

<table>
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<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>30 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M6</td>
</tr>
<tr>
<td>Thread length</td>
<td>10 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.003</td>
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</table>

**Holder Type 18**

**M8x5 o.R.**

<table>
<thead>
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<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>30 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M8</td>
</tr>
<tr>
<td>Thread length</td>
<td>10 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
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</table>

**Holder Type 18**

**M13x4B o.R.**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange diameter</td>
<td>16 mm</td>
</tr>
<tr>
<td>Length</td>
<td>20.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M13x1</td>
</tr>
<tr>
<td>Thread length</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.082</td>
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</table>

**Holder Type 18**

fork 8x16

<table>
<thead>
<tr>
<th>Width</th>
<th>14 mm</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>44.5 mm</td>
</tr>
<tr>
<td>Fork width</td>
<td>8 mm</td>
</tr>
<tr>
<td>Bolt diameter</td>
<td>8 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.378</td>
</tr>
</tbody>
</table>

**Note**

m.R. = with knurl
o.R. = without knurl

---

Pendant fixture HYBRID Type/Modell LXP 254
Herbert Waldmann GmbH & Co. KG
Villingen-Schwenningen
Central cable exit
without knurl (o.R.)

**Holder Type 18**

**M8x5 o.R. with fork 6x12; M8i**

with safety bolt

<table>
<thead>
<tr>
<th>Width</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>51 mm</td>
</tr>
<tr>
<td>Fork width</td>
<td>6 mm</td>
</tr>
<tr>
<td>Bolt diameter</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.833</td>
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</table>

**Holder Type 18**

**hook**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 mm</td>
</tr>
<tr>
<td>Exterior diameter</td>
<td>22 mm</td>
</tr>
<tr>
<td>Interior diameter</td>
<td>12 mm</td>
</tr>
<tr>
<td>Opening width of hook</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.121</td>
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</tbody>
</table>

**Safety design holder Type 18**

**hook**

with locking clip,
max. breaking load 25 kg

<table>
<thead>
<tr>
<th>Width</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 mm</td>
</tr>
<tr>
<td>Opening width of hook</td>
<td>8 mm</td>
</tr>
<tr>
<td>Interior diameter</td>
<td>12 mm</td>
</tr>
<tr>
<td>Exterior diameter</td>
<td>23 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.001.512</td>
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**Holder Type 18**

**ring**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>38 mm</td>
</tr>
<tr>
<td>Exterior diameter</td>
<td>24 mm</td>
</tr>
<tr>
<td>Interior diameter</td>
<td>14 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.120</td>
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</tbody>
</table>

Also available with 6 balls:
Ser. no. | 193.000.093 |

**Holder Type 18**

**Bo4**

<table>
<thead>
<tr>
<th>Width</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>32 mm</td>
</tr>
<tr>
<td>Bore</td>
<td>4.2 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.015</td>
</tr>
</tbody>
</table>
Holder Type 18

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

Lateral cable exit
without knurl (o.R.)

Holder Type 18ZW
M4i o.R.
Diameter 10 mm
Length 34.5 mm
Coupling thread M4i
Thread length 6 mm
Ser. no. 193.000.051

Holder Type 18ZW
M5i o.R.
Diameter 10 mm
Length 34.5 mm
Coupling thread M5i
Thread length 6 mm
Ser. no. 193.000.053

Y-Holder Type 18ZW
M6i o.R. 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

Y-Holder Type 18ZW
M5i o.R. 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 18ZW
M6i o.R. 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

Note
m.R. = with knurl
o.R. = without knurl
Holder Type 18ZW
hinged M5i o.R.
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

Holder Type 18ZW
hinged M5 o.R.
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

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)
Holder Type 18

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

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

Holder Type 18ZW
M8x7 o.R.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>42 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M8</td>
</tr>
<tr>
<td>Thread length</td>
<td>7 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.057</td>
</tr>
</tbody>
</table>

Holder Type 18ZW
M10x1 o.R.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M10x1</td>
</tr>
<tr>
<td>Thread length</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.107</td>
</tr>
</tbody>
</table>

Lateral cable exit without knurl (o.R.)
Cable diameter 1.0 to 1.8 mm (all illustrations in original size)

**Holder Type 18**

**Holder Type 18ZW NG**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5 mm</td>
</tr>
<tr>
<td>Width of bar (W)</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Groove height (G)</td>
<td>3.0 mm</td>
</tr>
<tr>
<td>Foot height (F)</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Diameter (D)</td>
<td>10.0 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.059</td>
</tr>
</tbody>
</table>

**Holder Type 18ZW NK**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>33.5 mm</td>
</tr>
<tr>
<td>Width of bar (W)</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Groove height (G)</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Foot height (F)</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Diameter (D)</td>
<td>8.0 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.062</td>
</tr>
</tbody>
</table>

**Special versions**

**Holder Type 18ZW M13x4B18 o.R.**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>42.5 mm</td>
</tr>
<tr>
<td>Diameter (D)</td>
<td>18.0 mm</td>
</tr>
<tr>
<td>Foot height (F)</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M13x1</td>
</tr>
<tr>
<td>Thread length</td>
<td>6.0 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.106</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>31.6 mm</td>
</tr>
<tr>
<td>Width of bar (W)</td>
<td>4.0 mm</td>
</tr>
<tr>
<td>Groove height (G)</td>
<td>5.5 mm</td>
</tr>
<tr>
<td>Foot height (F)</td>
<td>1.5 mm</td>
</tr>
<tr>
<td>Diameter (D)</td>
<td>8.0 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.078</td>
</tr>
</tbody>
</table>

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

**Note**

m.R. = with knurl
o.R. = without knurl
Holder Type 18

Central cable suspension with knurl (m.R.)

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

02 Holder Type 18V 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

Note
m.R. = with knurl
o.R. = without knurl
## Holder Type 18

### Central cable suspension with knurl (m.R.)

<table>
<thead>
<tr>
<th>Holder</th>
<th>Type</th>
<th>Diameter</th>
<th>Flange diameter</th>
<th>Length</th>
<th>Coupling thread</th>
<th>Thread length</th>
<th>Ser. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>18</td>
<td>M13x4B m.R.</td>
<td>10 mm</td>
<td>16 mm</td>
<td>M13x1</td>
<td>10 mm</td>
<td>193.000.080</td>
</tr>
<tr>
<td>02</td>
<td>18</td>
<td>B18 m.R.</td>
<td>12.8 mm</td>
<td>18 mm</td>
<td></td>
<td></td>
<td>193.000.049</td>
</tr>
<tr>
<td>03</td>
<td>18</td>
<td>2N12x1.4 m. LR</td>
<td>13 mm</td>
<td>16 mm</td>
<td></td>
<td>24 mm</td>
<td>193.000.060</td>
</tr>
</tbody>
</table>

Cable diameter 1.0 to 1.8 mm (all illustrations in original size)
Holder Type 18

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

Lateral cable exit
with knurl (m.R.)

Holder Type 18ZW
M4i m.R.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M4i</td>
</tr>
<tr>
<td>Thread length</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.052</td>
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</table>

Holder Type 18ZW
M5i m.R.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M5i</td>
</tr>
<tr>
<td>Thread length</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.054</td>
</tr>
</tbody>
</table>

Holder Type 18ZW
M6i m.R.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M6i</td>
</tr>
<tr>
<td>Thread length</td>
<td>6 mm</td>
</tr>
<tr>
<td>Ser. no.</td>
<td>193.000.056</td>
</tr>
</tbody>
</table>

Note
m.R. = with knurl
o.R. = without knurl
Central cable exit without knurl (o.R.)

**Holder Type 20**

**M13x10A**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>13 mm</td>
</tr>
<tr>
<td>Flange diameter</td>
<td>15 mm</td>
</tr>
<tr>
<td>Length</td>
<td>18 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M13x1</td>
</tr>
<tr>
<td>Thread length</td>
<td>10 mm</td>
</tr>
<tr>
<td>Ser. no. (3-ball)</td>
<td>193.000.100</td>
</tr>
<tr>
<td>Ser. no. (6-ball)</td>
<td>193.000.222</td>
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</table>

**Holder Type 20**

**M16x12A**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>16 mm</td>
</tr>
<tr>
<td>Flange diameter</td>
<td>18 mm</td>
</tr>
<tr>
<td>Length</td>
<td>18 mm</td>
</tr>
<tr>
<td>Coupling thread</td>
<td>M16x1</td>
</tr>
<tr>
<td>Thread length</td>
<td>12 mm</td>
</tr>
<tr>
<td>Ser. no. (3-ball)</td>
<td>193.000.226</td>
</tr>
<tr>
<td>Ser. no. (6-ball)</td>
<td>193.000.225</td>
</tr>
</tbody>
</table>

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

### Technical specifications
- **VDE-approval**
- **Voltage:** 250 V
- **Current:** 16/6 A (trough-switching/tapping light-fixture), multipolar (5), suitable for looping through
- **Loadability:** 20 kg
- **Diameter:** ø 75 mm, Height 56 mm

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

- **With power-feed**
  - Ser. no.: 029.009.000
- **Without power-feed**
  - Ser. no.: 029.009.001

### Universal-canopy cone ø 115x57
- **Silver (similar to RAL 9022)**
- **Max. breaking load:** 20 kg
- **Power feed-ø up to:** 7 mm
- **Cable-ø from/to:** 0.8 - 2.0 mm
- **Cone-ø:** 115 mm
- **Height:** 57 mm
- **Ser. no.:** 029.005.184

### Universal-canopy cone ø 115x57
- See above, but white (similar to RAL 9010)
- **Ser. no.:** 029.005.183

### Universal-canopy cylinder ø 67x90
- **White (similar to RAL 9010), without loading function, with inside fixing screw**
- **Power feed-ø up to:** 11.6 mm
- **Cable-ø from/to:** 1.0 - 2.5 mm
- **Cylinder-ø:** 67 mm
- **Height:** 90 mm
- **Ser. no.:** 029.005.127

### Standard-canopy cylinder ø 31x56
- **White (similar to RAL 9001), without loading function, with inside fixing screw**
- **Cable-ø from/to:** 0.8 - 1.8 mm
- **Cylinder-ø:** 31 mm
- **Height:** 56 mm
- **Ser. no.:** 029.005.261

### Other canopies on demand!
Ceiling attachments

Single piece ceiling attachments

01

Ceiling attachment M6i o.R. 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

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. 029.006.030

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
Bore-Ø 2 mm
Ser. no. 029.005.732

German utility patent
20.2004 005 788.3
Ceiling attachments

Two piece ceiling attachments M10x1

Ceiling attachment M10x1; M6i short
- Flange diameter: 16 mm
- Diameter: 12 mm
- Length: 15 mm
- Coupling thread: M10x1
- Ser. no.: 029.006.007

Ceiling attachment M10x1; M6i with bore
- Flange diameter: 16 mm
- Diameter: 12 mm
- Length: 26 mm
- Coupling thread: M10x1
- Ser. no.: 029.006.010
- Ser. no. without bore: 029.006.009

Ceiling attachment M10x1; M6i with slit
- Flange diameter: 16 mm
- Diameter: 12 mm
- Length: 26 mm
- Coupling thread: M10x1
- Ser. no.: 029.006.012

Screw cap M10x1
- Diameter: 12 mm
- Length: 10 mm
- Coupling thread: M10x1
- Thread length: 8 mm
- Bore-ø: 2.2 mm
- Ser. no.: 029.006.011

Screw cap M10x1 Quick
- Diameter: 12 mm
- Length: 10 mm
- Coupling thread: M10x1
- Thread length: 8 mm
- Bore-ø: 2.2 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 25) cable pending objects can be clamped on T-bars of standard ceiling grids without tools.

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

Please demand our special brochure or ask for further details.
Ceiling attachments

01
Track-Clip ›Premium‹ M6x11 white
with spring clamp, for track 25 mm
Bolt M6x11 mm
Ser. no. 029.005.135

02
Track-Clip ›Profi‹ M6x10 white RAL 9003
with snap nob, for track 25 mm
Bolt M6x10 mm
Ser. no. 029.006.027

03
Track-Clip ›Basic‹ 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

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

Two piece ceiling attachments M13x1

01 Ceiling attachment M13x1
Flange diameter 20 mm
Diameter 16 mm
Length 21 mm
Coupling thread M13x1
with M6i Ser. no. 029.006.003
without M6i Ser. no. 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. 029.006.002

03 Ceiling attachment M13x1 with bore
Flange diameter 20 mm
Diameter 16 mm
Length 21 mm
Coupling thread M13x1
with M6i Ser. no. 029.006.001
without M6i Ser. no. 029.006.042

04 Ceiling attachment M13x1; M6i with long slit
Flange diameter 20 mm
Diameter 16 mm
Length 34 mm
Coupling thread M13x1
Ser. no. 029.006.005

05 Ceiling attachment M13x1; M6i with short slit
Flange diameter 20 mm
Diameter 16 mm
Length 21 mm
Coupling thread M13x1
Ser. no. 029.006.004

06 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

07 Screw cap M13x1 ›Quick‹ with slit
Diameter 16 mm
Length 12 mm
Coupling thread M13x1
Thread length 10 mm
Ser. no. 029.006.055

German utility patent
20.2004 005 788.3
Combinations of ceiling attachment and screw cap

01
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

02
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

03
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

04
Ball joint attachment small, without mechanism
Diameter 15 mm
Complete length 21 mm
Coupling thread M6
Ser. no. 193.000.177

05
Ball joint attachment big, without mechanism
Diameter 24 mm
Complete length 28 mm
Coupling thread M6
Ser. no. 193.000.170
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 Ball joint holder Type 15 and ceiling plate
For sloped ceilings
Diameter 24 mm
Complete length 28 mm
Coupling thread M6
Ser. no. 193.000.166

04 Ceiling holder Type 15ZW
M10ix1 ›cone‹ and ceiling plate
M10x1
Diameter top 20 mm
Diameter bottom 9 mm
Complete length 33 mm
Ser. no. (with Logo) 193.000.197

05 Combination of Y-coupling part M5ix5 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

06 Combination of Y-coupling part M5ix5 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
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/mm². 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

### Cable clip »Flex Plus small«

<table>
<thead>
<tr>
<th>Power feed-ø</th>
<th>5.0 - 8.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable-ø</td>
<td>1.0 - 2.0 mm</td>
</tr>
<tr>
<td>Colour</td>
<td>Ser. no.</td>
</tr>
<tr>
<td>black</td>
<td>029.006.598</td>
</tr>
<tr>
<td>white</td>
<td>029.006.595</td>
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<tr>
<td>grey</td>
<td>029.006.596</td>
</tr>
<tr>
<td>transparent</td>
<td>029.006.597</td>
</tr>
</tbody>
</table>

   *German utility patent 400 04 183.9*

### Cable clip »Flex Plus large«

<table>
<thead>
<tr>
<th>Power feed-ø</th>
<th>7.0 - 10.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable-ø</td>
<td>1.0 - 2.0 mm</td>
</tr>
<tr>
<td>Colour</td>
<td>Ser. no.</td>
</tr>
<tr>
<td>black</td>
<td>029.006.592</td>
</tr>
<tr>
<td>white</td>
<td>029.006.590</td>
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<tr>
<td>grey</td>
<td>029.006.593</td>
</tr>
<tr>
<td>transparent</td>
<td>029.006.594</td>
</tr>
</tbody>
</table>

   *German utility patent 400 04 183.9*

### Cable clip »Flex Standard«

<table>
<thead>
<tr>
<th>Power feed-ø</th>
<th>6.0 - 8.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable-ø</td>
<td>1.0 - 1.6 mm</td>
</tr>
<tr>
<td>Colour</td>
<td>Ser. no.</td>
</tr>
<tr>
<td>black</td>
<td>029.005.124</td>
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<tr>
<td>white</td>
<td>029.005.123</td>
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<tr>
<td>transparent</td>
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</table>
Cable ends

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

<table>
<thead>
<tr>
<th>Cable diameter</th>
<th>Cable material</th>
<th>Cable construction</th>
<th>(01) Loop</th>
<th>(02) Loop &amp; thimble</th>
<th>(03) Threaded bolt</th>
<th>(04) Eyelet</th>
<th>(05) Cylindrical sleeve 13</th>
<th>(06) Cylindrical sleeve 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>stainless steel</td>
<td>6x7+15E, 1,570 N/mm²</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+15E, 2,300 N/mm²</td>
<td>•</td>
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<td>1.2</td>
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<td>6x7+15E, 1,570 N/mm²</td>
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<td>zinc plated</td>
<td>6x7+15E, 2,300 N/mm²</td>
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<td>•</td>
<td>•</td>
<td>•</td>
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</tr>
<tr>
<td>1.5</td>
<td>stainless steel</td>
<td>6x7+15E, 1,570 N/mm²</td>
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<tr>
<td></td>
<td>zinc plated</td>
<td>6x7+15E, 2,300 N/mm²</td>
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<td>zinc plated</td>
<td>6x7+15E, 2,300 N/mm²</td>
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<td></td>
<td>zinc plated</td>
<td>6x7+15E, 2,300 N/mm²</td>
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</tbody>
</table>

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/mm² strength.

<table>
<thead>
<tr>
<th>Cable ends</th>
<th>01 T-sleeve 02</th>
<th>02 Ball sleeve 36</th>
<th>03 Wire eyelet</th>
<th>04 Wire hook</th>
<th>05 Wire hook with locking clip</th>
<th>06 Forged eyelet</th>
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</thead>
<tbody>
<tr>
<td>T-sleeve</td>
<td></td>
<td></td>
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<tr>
<td>Head-ø 6.0 mm</td>
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<td></td>
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<tr>
<td>Shaft-ø 3.5 mm</td>
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<tr>
<td>Length 8.5 mm</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head-ø 6.0 mm</td>
<td></td>
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</tr>
<tr>
<td>Shaft-ø 3.5 mm</td>
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<tr>
<td>Length 8.5 mm</td>
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<td></td>
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</tr>
</tbody>
</table>

Table 3:
Cables with cable ends (+ available)
Please ask for further available brochures:

Mini holders & accessories

Shop | Display | Galerie

Presentation- and shelfsystems for Shop & Gallery

Heavy