Instruction Manual

Cable gripper

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1 Scope and Intendend Use

This instruction manual applies to the following cable holders:

series	class	article number
1012	1	SL000195
	2	SL000239
	3	SL000224
	4	SL000225
1018	1	SL000151
		SL000153
		SL000154
		SL000155
		SL000156
		SL000241

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1018	1	SL000247
		SL000161
		SL000162
		SL000163
		SL000164
		SL000167
		SL000168
		SL000169
		SL000170
		SL000171
	2	SL000165
		SL000192
1218	1	SL000121
		SL000204

A graphic overview of all cable holder incl. article numbers and basic dimensions are enclosed in the attachment.

Please note the different maximum working loads as well as the minimum and maximum rope diameters of the different series.

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2 Safety Instructions and fields of application

	➢ The cable holders, fasteners and attachments may be used in a temperature range of -20 °C to +50 °C.
	➢ The cable holders are allowed only in the interior zone. (Home, public / object area) ➢ Our cable holders, fasteners and attachments may not be used in an outdoor area. ➢ Storage may only be carried out in closed and dry rooms. ➢ During storage, protection against unauthorized use by third parties must be ensured.
	➢ The use on or in locations with high corrosion potential, such as in swimming pools (chlorine-containing substances) or seawater (substances with high salinity) is not permitted. ➢ If you have any questions about the surrounding, please contact our Carl Stahl Technocables team.
	➢ The maximum working loads given in the tables have to be followed. Higher working loads are not permitted. ➢ **!! IMPORTANT: pay attention to the tables with working loads for the different wire rope holder series !!!** ➢ Impact forces during the installation are not to exceed the permitted maximum workloads. ➢ Once overloaded, a wire rope holder incl. fastener and attachments must not be used and must be exchanged. ➢ The cable holders incl. fasteners and attachments are only approved for receiving static loads.
	➢ The fixing of cable holders to pieces of furniture can adversely affect the stability.
	➢ For the connection to ceilings or walls, solely suitable dowel or screws are to be used. The fasteners that are to be used must fit to the weight-bearing upper material. For this purpose, observe the instructions of the fastener manufacturer. ➢ A durable upper material is a prerequisite. The weight-bearing material is to be checked before the installation for sufficient load-carrying capacity. When using fasteners, the relevant instructions and the assembly instructions of the fastener manufacturer must be observed. ➢ When drilling holes in the upper material, particular attention must be paid to the course of electrical cables, as well as the course of gas and water pipes. ➢ When mounting the cable holders incl. fasteners and attachment parts, all provided fixing screws must be used.

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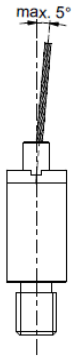
	➢ The maximum exit angle of the wire rope must not exceed a max. of 5 degrees with respect to the axis of the cable holder (see adjacent diagram). ➢ Cable holders must always be used in pairs to prevent rotation of the suspended object. ➢ If a cable holder with safety nut is used, it must be tightened as far as possible by hand after the object has been suspended. ➢ Depending on the product, existing safety flaps must be securely closed. ➢ Depending on the product, existing fixing screws must be tightened securely. 
	➢ For the safe operation of the cable holders, a minimum rope overhang of 20 mm is absolutely recommended. ➢ The recommended minimum rope overhang of 20 mm during the assembly is to be guaranteed by suitable measures. For example, marks on the rope before introducing in the cable holder, opening the components to be taken down or visibility of the roping during the assembly. ➢ Particular attention should be paid to these measures in cable holders without side exit, in which the exiting rope end is not readily visible.
	➢ All fasteners and attachments must be secured against unintentional loosening in the further processing, by appropriate measures

For all items that are not listed in this manual, or that are unclear, it is essential to consult the manufacturer BEFORE using the product.

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2.1 Maximum working loads series 1012

wire rope -Ø [mm]	Ø1,00	Ø1,20	Ø1,50	Ø1,80
galvanized wire rope – 6x7-WSC [1)]	SE000491	SE000492	–	–
maximum working loads [kg] [2)]	8 kg	13 kg	–	–

[1)] nominal strength min. 2.400 N/mm²

[2)] ATTENTION: Working loads **ONLY** apply to 1012 series

2.2 Maximum working loads series 1018

wire rope -Ø [mm]	Ø1,00	Ø1,20	Ø1,50	Ø1,80
galvanized wire rope – 6x7-WSC [1)]	SE000491	SE000492	SE000494	SE000496
maximum working loads [kg] [3)]	10 kg	15 kg	22 kg	28,5 kg
Stainless steel rope,(AISI 316) – 6x7-WSC [2)]	SE000497	SE000498	SE000499	SE000500
maximum working loads [kg] [3)]	7 kg	10 kg	19 kg	24 kg

[1)] nominal strength min. 2.400 N/mm²

[2)] nominal strength min. 1.570 N/mm²

[3)] ATTENTION: Working loads **ONLY** apply to 1018 series

2.3 Maximum working loads series 1018 – SL000167 - LOOP

wire rope -Ø [mm]	Ø1,00	Ø1,20	Ø1,50	Ø1,80
galvanized wire rope – 6x7-WSC [1)]	–	–	SE000494	SE000496
maximum working loads [kg] [2)]	–	–	33 kg	40 kg

[1)] nominal strength min. 2.400 N/mm²

[2)] ATTENTION: Working loads **ONLY** apply to 1018 series loop suspension.

2.4 Maximum working loads series 1218

wire rope -Ø [mm]	Ø1,00	Ø1,20	Ø1,50	Ø1,80
galvanized wire rope – 6x7-WSC [1)]	–	SE000492	SE000494	SE000496
maximum working loads [kg] [2)]	–	13 kg	17 kg	26,5 kg

[1)] nominal strength min. 2.400 N/mm²

[2)] ATTENTION: Working loads **ONLY** apply to 1218 series

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3 Installation and Application

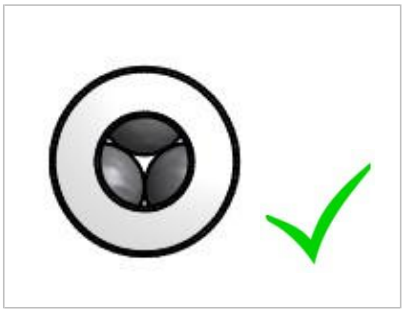
The attachment and installation of the cable holder may only be carried out by persons with the appropriate expertise. Wire rope ends represent an increased risk of injury. It is important to ensure that the ends of the wire ropes are tightly closed and that no individual wires or strands protrude. We recommend, wearing suitable gloves for protection against injury.

3.1 Check before Installation

Before installing the cable holder, fasteners and attachments, the proper condition of the cable holder and the wire rope must be checked.

3.1.1 Cable Holder

- No visible damage from outside.
- It should not be possible to open the cable holder housing by hand.
- Smooth running of the spring pressure piece.
- Proper condition of the cable holder can be checked by looking at the pin.
  All three balls have to be seen:



- A damaged cable holder is not to be used.

3.1.2 Wire Ropes

- Suspension ropes must not be greased or oiled and must be clean and free from corrosion.
- The ends of the wire rope must be tightly united, no individual strands or wires must protrude from the cable assembly. In this case, the end of the wire rope must be cut off again. We recommend the use of special wire rope cutter / wire rope pliers.
- The wire rope must not contain kinks, loops or knots.
- Damaged wire ropes (protruding wires, kinked ropes, etc.) must not be used.
- Other rope constructions (deviating from 6x7-WSC), materials and strengths as specified require technical consultation with the Carl Stahl Technocables Team.

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3.2 Initial Assembly

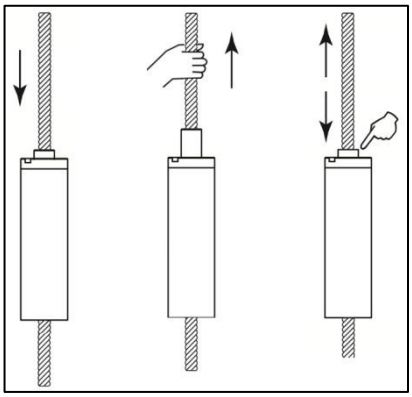
1. Cable holder is to be fixed on desired object (via internal / external threading, or fixing with screw / dowel)
2. Insert the rope with a slight pressure against the resistance of the push button
3. Push the rope / cable holder to the desired position.
4. With a slight pull on the load the clamping is carried out.
5. If existing: tighten the safety nut
   Cable holder for Y-suspension: secure the cross-span with a fixing screw
   Cable holder with hook: Close / check the spring latch

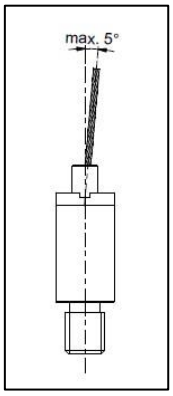
3.3 Repositioning of the Load

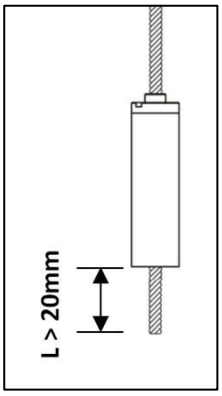
1. Relieve the cable holder (by lifting or supporting the load)
2. If existing: Release the safety nut on the push button
3. Unlock the wire rope by pressing the push button
4. Move and reposition the cable holder while pressing the push button
5. Release the push button
6. With a slight pull on to the load the clamping is carried out.
7. If existing: tighten the safety nut
   Cable holder for Y-suspension: secure the cross-span with a fixing screw
   Cable holder with hook: Close / check the spring latch

3.4 Dismantling / Disassembly

1. All loads must be careful and completely secured before dismantling / disassembly.
2. If existing: Release the safety nut
3. Unlock the wire rope by pressing the push button
4. Remove the wire rope from the cable holder / disconnect the cable holder from the wire rope







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4 Applications

SL000164

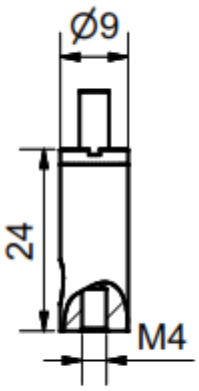
SL000192

SL000167

5 Attachment – overview Cable Holders

5.1 series 1012

SL000195



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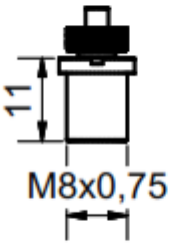

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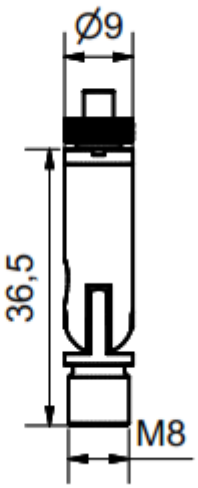

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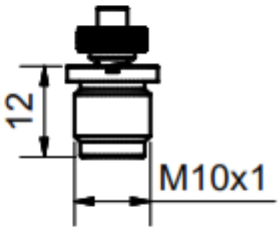

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5.2 series 1018

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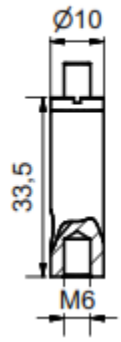

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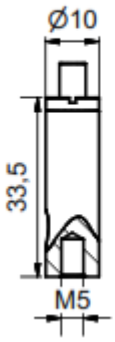

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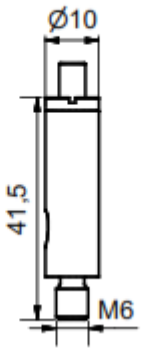

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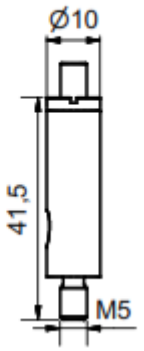

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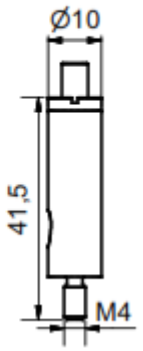

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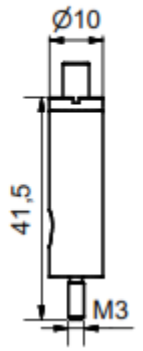

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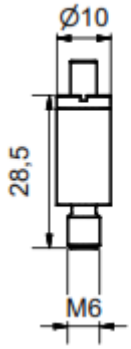

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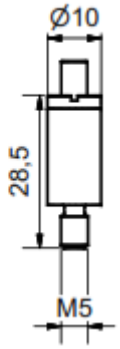

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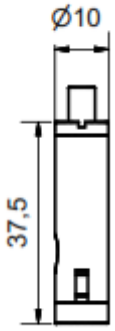

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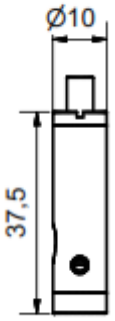

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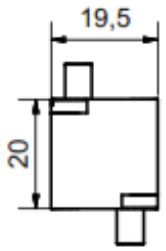

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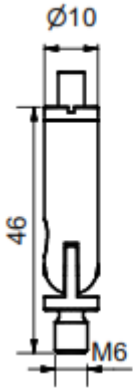

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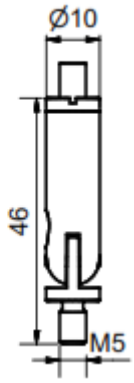

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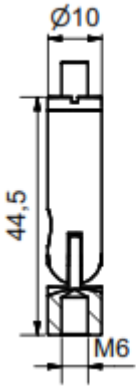

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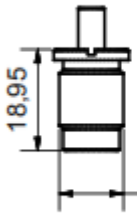

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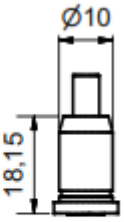

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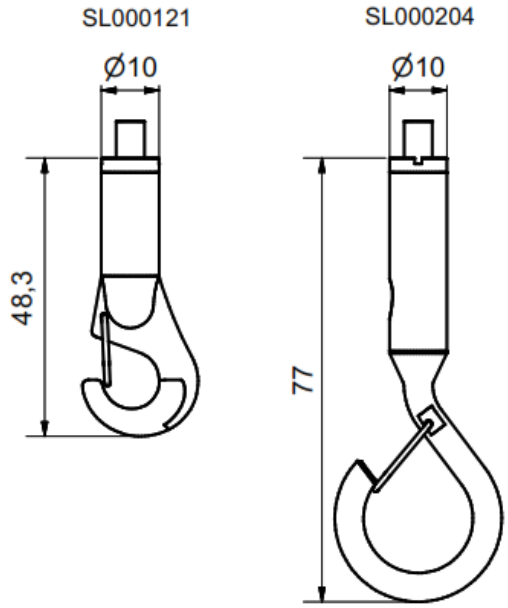
5.3 series 1218



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