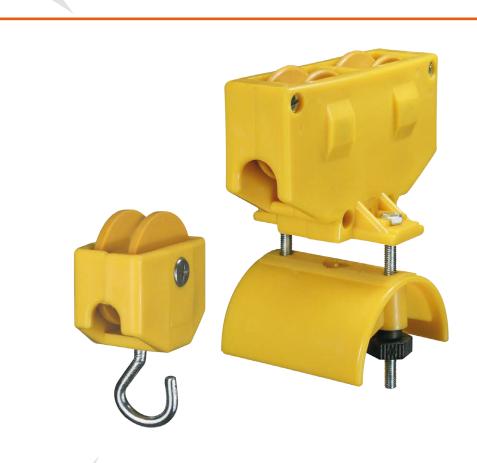
Festoon Systems for Wire Ropes Series 0210 | 0215



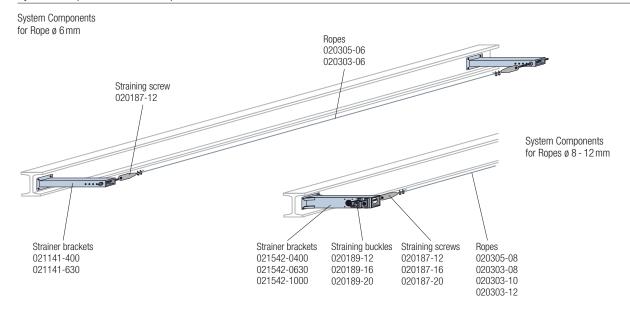


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Ropes and Accessories Series 0210 and 0215

System Components for Wire Ropes with Diameter 6-12 mm



Wire Ropes







· Rope: galvanized steel · Cover: plastic

Plastic covered ropes 020305 have the best performance.

with without Plastic Cover Plastic Cover

Order No.	Туре	ød [mm]	øD [mm]	Min. Brak. Strength F _{Br} [kN]	Perm. Tensil Strength F _{zul.} [kN]	for Straining Screw
020305-06	with plastic cover	4	6	14.5	3.6	020187-12
020303-06	without plastic cover	6	-	20.3	5.1	020187-12
020305-08	with plastic cover	6	8	20.3	5.1	020187-12
020303-08		8	-	37.2	9.3	020187-12
020303-10	without plastic cover	10	-	58.1	14.5	020187-16
020303-12		12	-	81.2	20.3	020187-20

Straining Screws



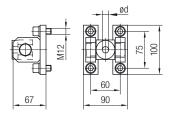
Order No.	ød	l [mm]	for Rope ø [mm]
020187-12	M12	330	6 - 8
020187-16	M16	424	10
020187-20	M 20	458	12

Material: galvanized steel

Ropes and Accessories Series 0210 and 0215

Straining Buckles



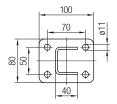


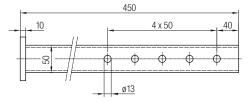
Order No.	ød [mm]	suitable Strainer Bracket	
020189-12	13		
020189-16	17	021542	
020189-20	21		

Material: galvanized steel Application: for flexible reception of the straining screw

Strainer Brackets



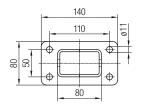


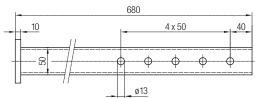


Order No.: 021141-400 Material: galvanized steel

Suitable straining screw 020187-12







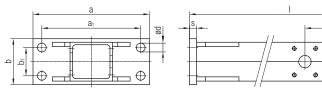
Order No.: 021141-630 Material: galvanized steel

Suitable straining screw 020187-12

160

80





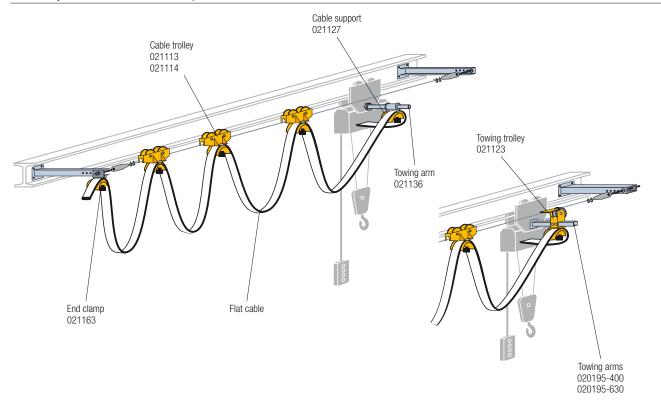
Order No.	l [mm]	a [mm]	b [mm]	a ₁ [mm]	b₁ [mm]	ød [mm]	s [mm]
021542-0400	495	290	120	250	80	21	15
021542-0630	730	330	130	280	80	25	20
021542-1000	1105	390	150	330	90	31	25

Material: galvanized steel

- To be ordered only in connection with straining buckle 020189
 This strainer bracket is also used with two ropes running in parallel Distance between ropes $= 160 \, \text{mm}$

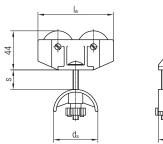
Cable Trolleys for Flat Cables Series 0210

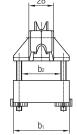
Festoon Systems for Flat Cables on Rope with Diameter 6 mm



Plastic Cable Trolleys with Load Capacity up to 6 kg





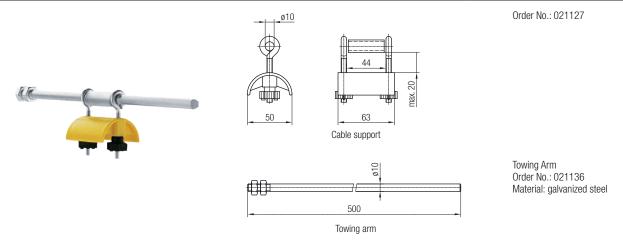


Cable Trolley Order No.	d _a [mm]	l _w [mm]	b₁ [mm]	b ₂ [mm]	s [mm]
021113	50	085	63	44	17
021114	80	125	80	54	22

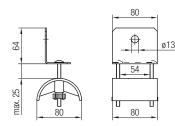
- Type of roller:
- roller: plastic
- axle: stainless steel
- Load capacity: 6 kg

Flat Cable Trolleys Series 0210

Cable Support



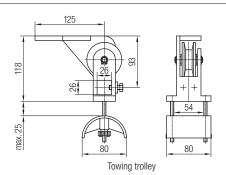
End Clamp

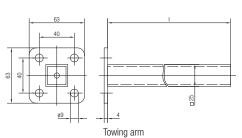


Order No. 021163

Towing Trolley with Rope Guidance





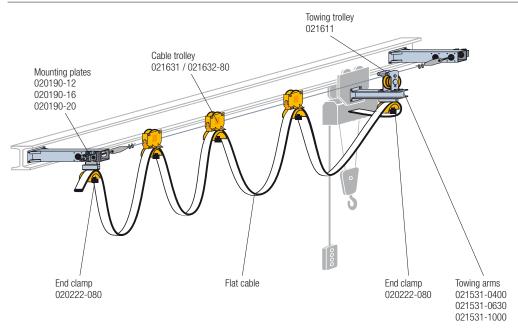


Towing Arm Order No.	l [mm]	Material
020195-400	400	galvanizad ataal
020195-630	630	galvanized steel

Order No.: 021123

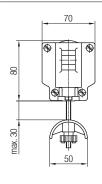
Cable Trolleys for Flat Cables Series 0215

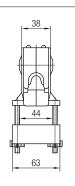
Festoon Systems for Flat Cables on Ropes with Diameter 8-12 mm



Plastic Cable Trolley with Load Capacity up to 10 kg





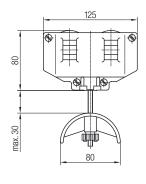


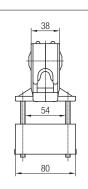
Order No. 021631

- Type of roller:
- roller: plastic
- axle: stainless steel
- · Load capacity: 10 kg

Plastic Cable Trolley with Load Capacity up to 20 kg





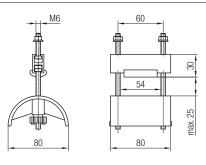


Order No. 021632-80

- Type of roller:
- roller: plastic
- axle: stainless steel
- Load capacity: 20 kg

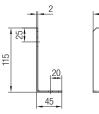
Cable Trolleys for Flat Cables Series 0215

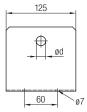
End Clamp



Order No. 020222-080

Note Mounting under plate 020190 and towing arm 021531

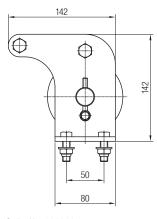


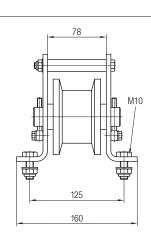


Mounting Plate Order No.	ød [mm]	Suitable Straining Screw
020190-12	13	020187-12
020190-16	17	020187-16
020190-20	21	020187-20

Towing Trolley with Rope Guidance





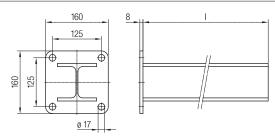


- Order No. 021611

 Casing:: galvanized steel

 Type of roller:
 roller: plastic, with steel ball bearing
 - axle: galvanized steel

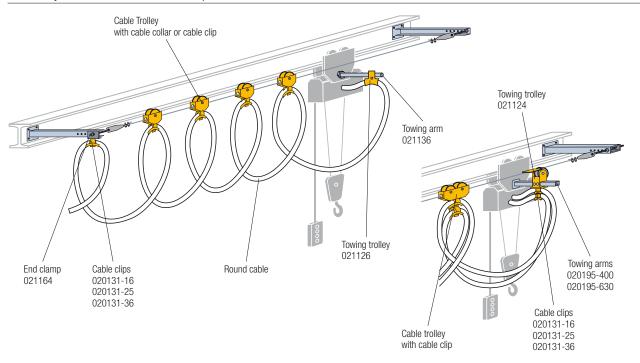
Towing Arm



Order No.	l [mm]	Material
021531-0400	400	
021531-0630	630	galvanized steel
021531-1000	1000	31001

Cable Trolleys for Round Cables and Hoses Series 0210

Festoon Systems for Round Cables on Rope with Diameter 6 mm



Plastic Cable Trolley with Hook or Eye with Load Capacity up to 3 kg





Trolley with Hook Order No. 021111 Load capacity: 3 kg

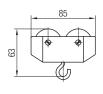


Trolley with Eye Order No. 021115 Load capacity: 3 kg

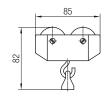
Note Corresponding cable clip 020131 see page 11

Plastic Cable Trolley with Hook or Eye with Load Capacity up to 6 kg





Trolley with Hook Order No. 021112 Load capacity: 6 kg



Trolley with Eye Order No. 021116 Load capacity: 6 kg

Note Corresponding cable clip 020131 see page 11

Cable Collars for Trolleys with Hook

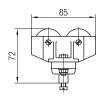


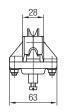
Order No.	Cable Diameter [mm]
020111-10	10
020111-12,5	12.5
020111-14	14
020111-16	16
020111-18	18
020111-20	20

Round Cable Trolleys and Hoses Series 0210

Plastic Cable Trolley with Ball Joint with Load Capacity up to 6 kg

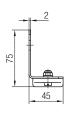


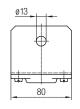




Order No. 021117 Load capacity: 6 kg

End Clamp





Order No. 021164

Suitable cable clip 020131

Cable Clips for Trolleys with Hook or Ball Joint



Order No.	Cable Diameter [mm]
020131-16	10 - 16
020131-25	17 - 25
020131-36	26 - 36

The cable clips can be combined in multiple variations.

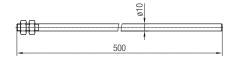
Cable Support and Towing Arm





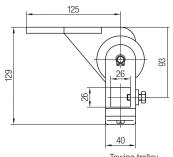
Order No. 021126

Note Only for one cable. Mounting of additional clips not possible.



Towing Arm Order No. 021136 Material: galvanized steel

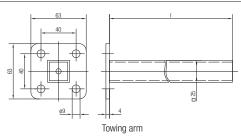
Towing Trolley with Rope Guidance





80

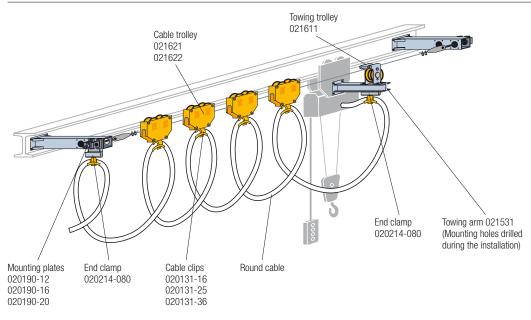
Order No.: 021124 Suitable cable clip 020131



Towing Arm Order No.	 [mm]
020195-400	400
020195-630	630

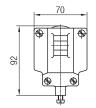
Cable Trolleys for Round Cables and Hoses Series 0215

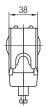
Festoon Systems for Round Cables on Ropes with Diameter 8-12 mm



Plastic Cable Trolley with Load Capacity up to 10 kg







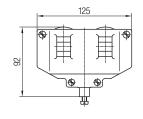
Order No. 021621

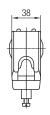
- · Type of roller:
 - roller: plastic
- axle: stainless steel
- · Load capacity: 10 kg

Suitable cable clips 020131 see page 11

Plastic Cable Trolley with Load Capacity up to 20 k







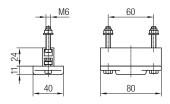
Order No. 021622

- · Type of roller:
- roller: plastic
- axle: stainless steel
- · Load capacity: 20 kg

Suitable cable clips 020131 see page 11

Round Cable Trolleys and Hoses Series 0215

End Clamp



End Clamp Order No. 020214-080

- Mounting under plate 020190 and towing arm 021531
 Suitable cable clip 020131

	2	125
25	-	ød
<u> </u>	20	60 07

Mounting Plate Order No.	ød [mm]	Suitable Straining Screw
020190-12	13	020187-12
020190-16	17	020187-16
020190-20	21	020187-20

Towing Trolley with Rope Guidance



Towing Trolley Order No. 021611 Towing Arm Order No. 021531

For more details see page 9

Supplements to the Series by Inquiry



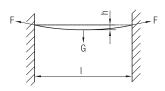


Ideal Control Unit Trolley for Flat and Round Cables

Trolley running on two ropes Double load capacity

Helpful Hints

Calculation of Tensile Force



The tensile force can be calculated approx. using the following formula::

$$F = \frac{ - \phi \cdot G \cdot I \cdot g}{8000 \cdot h} \underbrace{ \begin{cases} \leq F_{perm.} \\ [kN] \end{cases}}$$

In planning a flexible cable system it is neccessary to calculate the carrying capacity of the rope. Normally plastic covered steel ropes are used which are suitable for most applications.

F [kN] = Tensile force in the rope

G [kg] = Total load of netweight of rope

plus weight of cable trolleys and cables

I [m] = Span width of rope

h [m] = Sag of rope

g $[m/s^2]$ = Gravitational acceleration = 9.81

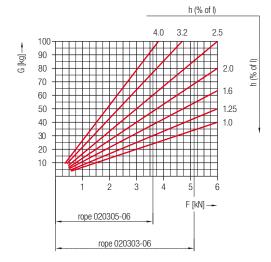
= Net load factor = 1.1-1.2 to DIN 15018, section 4.1.4.1

Consideration is recommended.

Determination of Rope Load and Selection of Required Rope

The required rope can be determined with the help of the following diagrams. The diagrams were issued with $\Phi=1,2$ and $\vartheta=4.$

Program 0210



Calculation Example

Given:

Total load G = 145 kgSpan width I = 100 m

Rope sag $h_{perm.} = 2 m = 2\%$

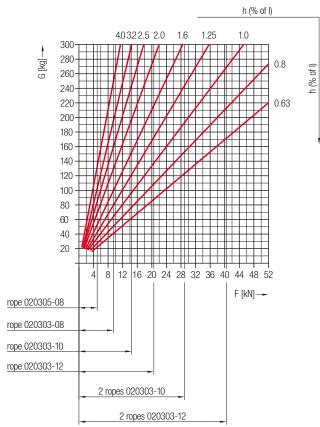
Calculated values:

Diagram program 0210: not suitable Diagram program 0215: suitable

From diagram program 0215 - existing rope load: F ≈ 10,5 kN

existing rope load: F ≈ 10,5 klrequired rope : 020303-10

Program 0215



Other Products from Conductix-Wampfler

The products described in the this catalog represent a few of the products from the broad spectrum of Conductix-Wampfler components and systems for the transfer of energy, data, gases, and fluids. The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler products are needed to fill the application. You can count on all of Conductix-Wampfler's business units for hands-on engineering support - coupled with the perfect solution to meet your energy management and control needs.



Motor driven cable reels

Motor driven reels by Conductix-Wampfler are the perfect solution for managing long lengths of heavy cable and hoses in very demanding industrial applications. Monospiral, level wind, and random wind spools.



Slip ring assemblies

Whenever powered machinery needs to rotate 360°, field proven slip ring assemblies by Conductix-Wampfler can flawlessly transfer energy and data. Here, everything revolves around flexibility and reliability.



Conductor bar

Whether they are enclosed conductor rails, expandable single-pole bar systems, or high amperage bar for demanding steel mill use up to 6000 amps. Conductix-Wampfler's conductor bar is the proven solution to reliably move people and material.



Spring driven cable reels

We have 60 years experience and trusted brands such as Insul-8, Wampfler, and IER. We offer small cord reels all the way to large multi-motor units, a wide range of accessories, and hazardous location reels.



Cable Festoon systems

It's hard to imagine Conductix-Wampfler cable trolleys not being used in virtually every industrial application. They are reliable and robust and available in an enormous variety of sizes and models.



Push Button Pendants

Our ergonomic pendants are ideally suited for industrial control applications. They are available in a wide range of configurations for overhead cranes and other machinery.



Radio remote controls

Safe, secure, and reliable radios use the latest in microprocessor technology. Available in several models for overhead crane control and other types of machinery.



Inductive Power Transfer IPT®

The contact-less system for transferring energy and data. For all tasks that depend on high speeds and absolute resistance to wear.



Energy guiding chains

The "Jack of all Trades" when it comes to managing energy and data cables and air and fluid hoses. A wide range of energy guiding chains are available for many industrial applications.



Air hoists and balancers

ENDO Air hoists accurately place delicate loads and continuously vary the speed for precise positioning. They run cool in continuous operations.



Bumpers

Conductix-Wampfler offers a complete range of bumpers for the auto industry, cranes, and heavy machinery. These include rubber, rubber/metal, and cellular types.



Spring balancers and retractors

ENDO spring balancers by Conductix-Wampfler are rugged, reliable high-precision positioning devices that reduce operator fatigue and assist with accurate tool placement.

www.conductix.us

10102 F Street 1435 Norjohn Court Calle Treviño 983-C Rua Luiz Pionti, 110 Omaha, NE 68127 Unit 5 Zona Centro Vila Progresso Burlington, ON L7L 0E6 Apodaca, NL México 66600 Itu, São Paulo, Brasil CEP: 13313-534 **Customer Support Customer Support Customer Support Customer Support** Phone +1-800-521-4888 Phone +1-800-667-2487 Phone (+52 81) 1090 9519 Phone (+55 11) 4813 7330 (+52 81) 1090 9025 (+52 81) 1090 9013

Fax

MÉXICO

BRAZIL

Fax (+55 11) 4813 7357

info.br@conductix.com

Contact us for our Global Sales Offices

USA / LATIN AMERICA

Phone +1-402-339-9300

info.us@conductix.com

latinamerica@conductix.com

Fax

+1-402-339-9627

CANADA

Fax

Phone +1-450-565-9900

info.ca@conductix.com

+1-450-951-8591



(+52 81) 1090 9014

info.mx@conductix.com







