

# Spring driven cable reels



ALFSR007

Manufactured by Cavotec ALFO

# CAVOTEC ALFO spring driven cable reels

## The Cavotec Group

Cavotec is the name of a group of companies specialized in power supply technology for cranes and other industrial equipment. It is formed by 6 manufacturing companies located in Canada, Germany, Italy, Sweden and UK, and by 16 Cavotec sales companies which, together with a network of Distributors, serve more than 30 countries in five continents.

Each manufacturing company, no matter where it is located, aims at being a market leader in its field by providing innovative and reliable products to Group customers.

Although they manufacture different products in different countries, they are globally supported and coordinated by the Cavotec Group in their product development and marketing activities. Each sales company, and each distributor, has a policy aiming at better serving its local market with the full support of the Cavotec Group.

## CAVOTEC ALFO: a Cavotec company

The products manufactured by ALFO described in the following pages, as well as other quality products in the field of crane and power technology, are distributed around the world by the Cavotec sales companies and by a network of selected Distributors.

## Our aim is to be local everywhere

Great emphasis is put in providing the highest quality not only in the products, but also in service and backing to their customers. Our philosophy in fact is to be local everywhere.

## Our fields of activity are



**Mining,  
tunnelling**



**Steel Mills**



**Forestry**



**Ports,  
Terminals**



**Robots,  
Automation**



**Offshore**



**Constructions**

## Contents

Product information	Page 4
Standard range	Page 8
Type 125	Page 10
Type 190	Page 12
Type 220	Page 14
Type 280	Page 16
Type 280HA	Page 18
Type 400	Page 20
Type 500	Page 22
Accessories	Page 27

# CAVOTEC ALFO — world leader in spring driven cable reels

Established in 1991, ALFO is a young German manufacturing company in the specialised field of spring reels and slipping columns. Its founder, Günter Hackauf, started ALFO after 25 years of experience in manufacturing and marketing components in this specific industry. This explains the success of the ALFO company, which in only 5 years has become a leading German manufacturer in its sector. In 1997 ALFO became a member of the Cavotec Group, a world leader in cable reel technology, as one of its manufacturing units.

The ALFO range of products developed by Günter Hackauf are of highest quality level, manufactured in the most cost-effective way. Standard components produced in large series, are combined and assembled enabling ALFO to serve the market and meet both standard and special requirements at competitive prices and with short delivery times.

The emphasis on quality in production and customer service, which distinguishes the ALFO operation, totally corresponds to Cavotec Group policy adopted worldwide. The Cavotec Group sales and service organization covering some 30 countries is therefore well prepared to serve ALFO customers throughout the world.

This catalogue covers the **ALFO standard range of spring driven cable reels** with wide drums and flange mounting. The ALFO standard spring reels are built with modular components which allows a great number of combinations covering most common requirements. The ALFO spring reels are strong and well designed in order to guarantee the highest reliability even in difficult applications.

All reels are equipped with two totally sealed bearings which are lubricated for lifetime. The special ALFO design features well dimensioned shaft and bearings which allows easy and fast exchange of springs. Furthermore ALFO has been the first manufacturer to build its slipping in a totally sealed and modular unit, fully separated from the mechanical parts. Protection of slipping and reel is IP65/66.

**The springs** are made of high-grade special steel which guarantees a long lifetime. Every spring is mounted inside a spring housing in order to avoid friction and wear.

**The slipping assembly** is mounted in a solid glassfiber reinforced plastic housing which withstands corrosion and mechanical wear. The housing is designed to minimise condensation and to guarantee complete water tightness through glands and seals.

**Corrosion protection** is also a major feature with ALFO reels. All steel plates and parts are either hot dip galvanised or have a polyester coating. ALFO offers also as an optional stainless steel bolts, nuts and all external parts in hot dip galvanised steel with additional coating.

ALFO spring driven cable reels meet all applicable IEC international norms and standards and follow the latest EU-requirements (CE-marking).



ALFSR002

*A view of CAVOTEC ALFO factory in Overath, Germany.*



ALFSR008

# Product information

## STANDARDS and NORMS

Spring driven cable reels are subject to the standards and norms set forth in VDE 0100 and the UVV in their latest edition

## Warranty

Our warranty follows the general delivery conditions of the electric industry for products and services. Wear parts are exempted from the warranty. See also our Terms of Delivery.

## General instructions regarding spring reel installation

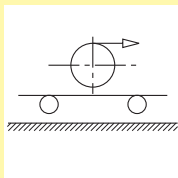
The drum shall be installed in such a way to ensure that the cable is reeled and unreeled to/from the drum freely and unhampered. **Forced guidance and too small bending radii on sheaves and roller guides shall be avoided.**

The ALFO spring reels allows the feeding point of the cable to be placed on either side of the drum. The following selection tables cover only wide cable drums, with random wrapped layers, taking in consideration 11 typical application cases.

### Horizontal application

#### Cable unreeing horizontally (Case 1)

Drum mounted on a mobile vehicle, cable resting on a continuous surface or on supports having a distance of less than 1 m. Mounting height between drum centre and surface level  $h \leq 1.0$  m.  $v < 63$  m/min,  $a < 0.3$  m/s<sup>2</sup>



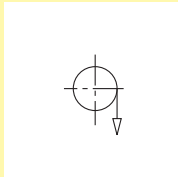
### Vertical application

#### (Case 8)

Drum above feeding point, cable unreeled vertically downwards.

Please take note of measure "H".

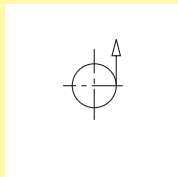
$v < 30$  m/min,  $a < 0.3$  m/s<sup>2</sup>



### Vertical application

#### (Case 9)

Drum below feeding point, cable unreeled vertically upwards. For drum selection, use the tables for horizontal application.



Please contact us for information about all other application cases using the questionnaire on page 7.

## Recommendation on cable safety

**Attention!** Do not reel more cable onto the drum than necessary.

**For tension relief**, 1 or 2 additional reeling turns ( $d \cdot \pi \cdot 2$ ) which will remain on the drum when the maximum travelling distance has been reached.

## Cable selection

When selecting the cable, please take in consideration the cable data and the instructions provided by the manufacturer. In order to make the correct reel selection it is absolutely necessary to know the correct conditions of use. It is important to take in consideration the heating of the cable due to the number of layers on the drum. Also when selecting the cable it is important not to exceed the maximum allowed tension of the cable. The data contained in the selection tables are related to flexible cables of short lengths. The ambient temperature is assumed to be within +30°C to -10°C. Lower temperatures may require a higher spring force due to the higher rigidity of the cable. The drum selection tables have been calculated with the maximum values (of each bracket) of diameter and weight. Consequently there could be significant deviations in particular cases.

A correlation of the cable diameters is given on page 9.

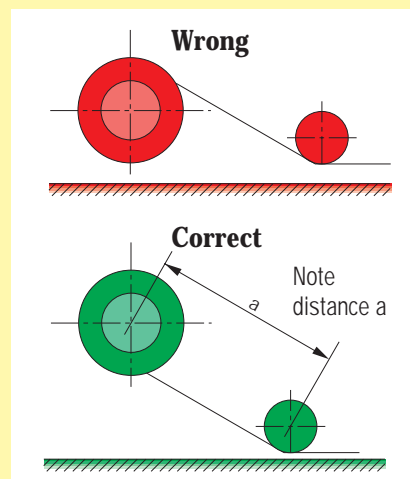
## Reeling cable on drum

It is absolutely necessary to reel the cable onto the drum without twists or bends. To this end, lay out the complete cable straight along the travel length. When reeling the cable on the drum be sure to maintain the same reeling direction used on the wooden drum delivered by the manufacture.

## Reeling through roller guides and sheaves

When roller guides and sheaves are used, it is important to avoid reverse bending whenever possible.

Example.



## Selection of the cable cross-section

When selecting the cable cross-section it is important to take in consideration the maximum current allowed (thermal heating) and the voltage drop limits, as well as the maximum tension allowed.

The most important factors are:

1. Maximum current load allowed according to norms and/or manufacturer's data.
2. Reduction factors due to duty cycle
3. Ambient temperature
4. Number of cable layers on the drum

### Important:

The number of layers  $Lz = 4$  should not be exceeded. With  $Lz > 4$  gives higher current reduction and worse reeling conditions. You will find the upper limits in the selection tables.

5. Reduction factor when using multi-core cables.
- Relevant values are given by the cable manufacturer.



### ALFO range of cables

Our cable range includes a wide variety of flexible cables for reeling applications which will stand the highest mechanical stresses and harsh ambient conditions.

### Drum design

Modular hot-dip galvanised steel drum design for all standard ALFO spring reels. Springs made of high-grade spring steel having a long lifetime. The springs can be replaced without removing the drum.

### Unreeling direction

#### Standard direction= left

Standard unreeling direction is anticlockwise, when looking into the slipping body, i.e. to the left when unreeling the cable.

### Protection type

Standard for drums and slipping bodies: **IP66**.

### Surface treatment

Standard treatment for drums: hot-dip galvanized steel and with slipping assembly housing in glasfiber reinforced polyamid.

### Operating voltages

Please find the operating voltages in the respective slipping data tables.

### Maximum current values

All drums and slipping bodies are designed for the maximum allowed current values of the cable at 100% ED. (duty cycle). Please find the maximum allowed values in the respective slipping data tables.

### Protective earth conductor and number of poles

All drums and slipping bodies for voltages > 24V are manufactured with an un-insulated protective earth conductor (PE).

Number of poles = number of insulated poles including PE.

In your order form, please state: number of poles, protective earth conductor, and operating voltage.

### Environmental and extreme operating conditions

Extreme environmental and operating conditions must be given additional attention.

The following factors are of primary importance :

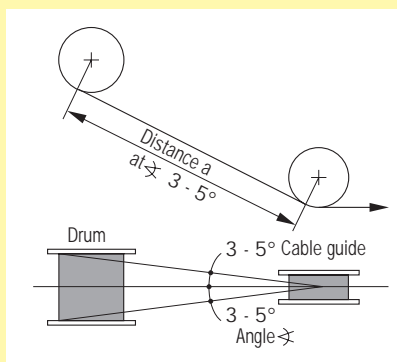
- extreme high and low temperatures
- significant temperature variations
- high air humidity
- strong vibrations
- heavily polluted and aggressive air
- use on the sea or in marine environment

The force of the springs in spring reeling drums, may have to be increased, if:

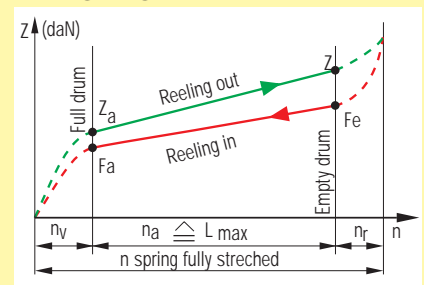
- the unit is moving at very low speed  $v < 10$  m/min
- significant deflections of the cable is necessary
- at high acceleration and speeds
- the temperature is lower than  $-10^{\circ}\text{C}$ .

### Warning

When spring reels are mounted low, the cable must always leave the drum from the top. When roller guides or sheaves are used it is important to respect a minimum distance (a) between drum and guide.



### Spring diagram



Explanation :

**Lmax** = max. operating reeling length (m)

**na** = operational reeling turns

**nv** = spring preload turns

**nr** = extra spare turns

**Fa** = Remaining spring load at full drum

**Fe** = Remaining spring load at empty drum

**Z** = necessary pulling force at vertical application (cable completely unreeled)

**Please note:** Spring forces refers to the corresponding inner drum Ø

### Code key

19	36	14	20	BA	—	45	07
<b>19 - 36 Drum size</b> 19: 190mm inner Ø 36: 360mm outer Ø 14: 140mm drum width				<b>45 - 07 Slipping assembly</b> 45: Slipping type 07: number of poles incl. PE (earth)			
<b>20 BA Spring type</b> 20: number and configuration of springs BA: type of spring							

## Reel application examples

The following tables show the most common reeling applications, in fact the selection tables are only prepared for case 1 or case 8 and 9. Please contact us concerning all other application cases.

### Case 1 - Case 2

#### Horizontal mobile application

Cable is unreeled on a flat continuous surface. The cable is unreeled horizontally in either travelling directions.

### Case 3 - Case 4

#### Horizontal mobile application

The cable is reeled out on supports ( $L1 < 1m$ ) or on rollers or rounded smooth supports ( $L1 = 1$  to  $3m$ , depending on the cable size). The cable is unreeled horizontally in either travelling directions.

### Case 5

**Stationary application** (cable fixed point on the mobile vehicle) The cable is unreeled from the drum horizontally in either travelling directions through support rollers ( $L1 = 1$  to  $3m$ , depending on the cable size). This type of application is not recommended.

### Case 6 - Case 7

#### Horizontal mobile application

The cable is unreeled horizontally above the ground and without support in either travelling directions. The catenary  $f1$  must be calculated accurately. As a rule the value of  $f_{max}$  is approx. 10% of  $L$ .

### Case 8 - Case 9 Vertical application

Cable unreeled vertically downwards or in applications with strong inclination downwards. Cable unreeled vertically upwards or in applications with strong inclination upwards.

#### Explanation of the symbols (case 1 to 7):

**Lw**= maximum reeling cable length [m], (reeling length for reels travelling in both directions = one-half of the total travelling length)

**h**= (installation height) distance between lowest cable end position and drum centre [m]

**LF**= cable feeding point

**f**= maximum cable sag [m], in case 6 and 7 related to position A in drawing

**f1**= maximum cable sag [m], related to cable feeding point LF

**L1**= roller or support distance [m]

**Calculation formula**  $f/f1 (m) \sim \frac{10 \times L^2 \times g}{8 \times F}$

**L**= support distance [m]

**g**= cable weight [kg/m]

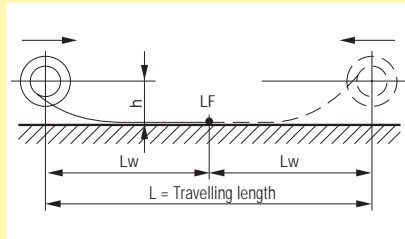
**F**= pulling force [Newton]

#### Explanation of the symbols (case 8 and 9):

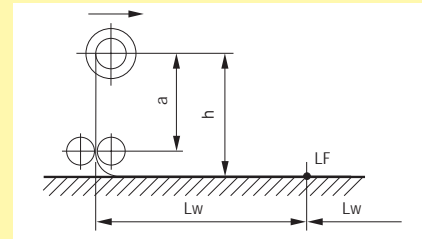
**Lw**= maximum reeling cable length [m],

**H<sub>ss</sub>**= maximum cable length hanging down from the drum [m]

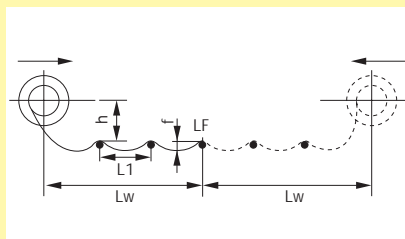
The drum is selected according to the total cable weight of the hanging cable. Furthermore, additional weight (F3) must be considered and added to the cable weight.



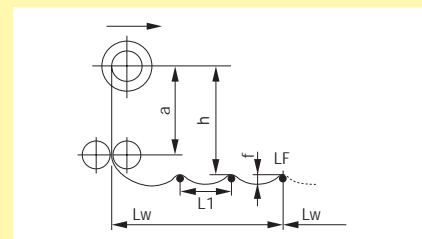
Case 1



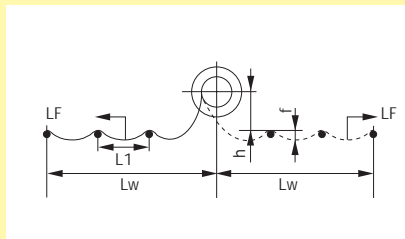
Case 2 - At high h - please note deviation angle  $\angle$



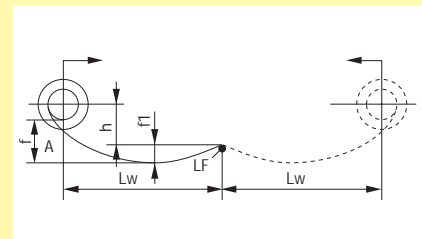
Case 3



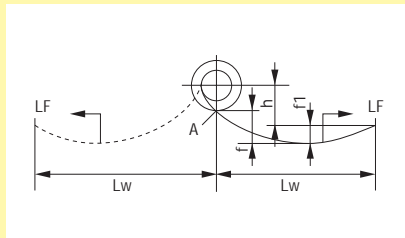
Case 4 - At high h - please note deviation angle  $\angle$



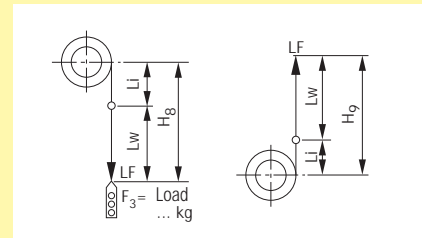
Case 5



Case 6

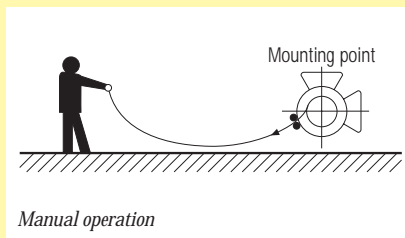


Case 7 - Stationary



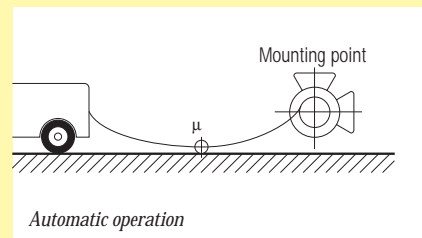
Case 8 - Vertical application - reel on top

Case 9 - Vertical application - reel at bottom



Manual operation

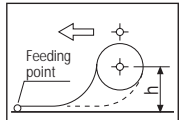
Case 10 - Stationary reel, manually operated



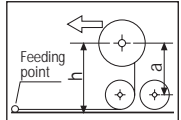
Automatic operation

Case 11 - Stationary reel, automatic unreeling  
Please give type of ground surface or the surface friction ( $\mu$ ).

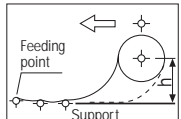
**Applications type**



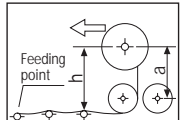
1 Mobile application



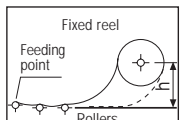
2 Mobile application



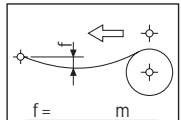
3 Mobile application



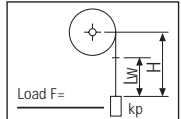
4 Mobile application



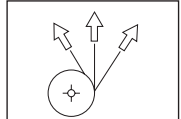
5 Stationary application



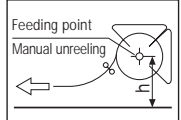
6 7



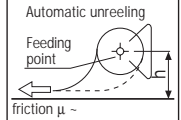
8 Vertical downwards



9 Vertical upwards



10 Stationary application



11 Stationary application

**From:**

Fax:

Tel:

**Date:** **Inquiry No**

**Person in charge:**

**To:** CAVOTEC ALFO

D-51491 Overath

Attention:

Tel: 0049 - (0)2206/60950

Fax: 0049 - (0)2206/609522

**Questionnaire for spring-driven cable reels**

Quantity:  Delivered with cable  without cable

**Cable**

Cable type: \_\_\_\_\_ Cross section:  x  mm<sup>2</sup>, Outside dia  $\varnothing$   mm, Weight  kg/m

Total length of the cable  $L_{1,\Sigma}$  =  m

( $L_{1,\Sigma}$  = reeling length + 2 dead turns as tension relief + connections and/or installed cable outside of the cable reel)

**Slipping collector**

Number of isolated poles  + earth conductor yes  no

Current min.  mA, max  A, Voltage min/max.  /  V,

**Mounting**

Horizontal track length  $L$  =  m, of which travel distance  $L_w$  =  m

Installation height  $h$  =  m, roller guide yes  no  Distance  $a$  =  m

In case that "h" is < 0,6m the cable should always run off the cable reel from the top.

**Applications type**

**Horizontal**

electrical end supply  electrical supply at centre  of which travel distance  $L_{w1}$  =  m  $L_{w2}$  =  m

**Vertical**

vertical hoist height  $H$  =  m hoist distance  $L_w$  =  m additional load  $F$  =  kg

travel hoist speed  $v$  =  m/min acceleration  $b$  =  m/s<sup>2</sup>

**Special requirement**

Automatic operation  manual operation  return locking only manual operation  application outdoors  indoors

temp.  /  °C wide drum  monospiral reel  hot-dip galvanised + polyester coating

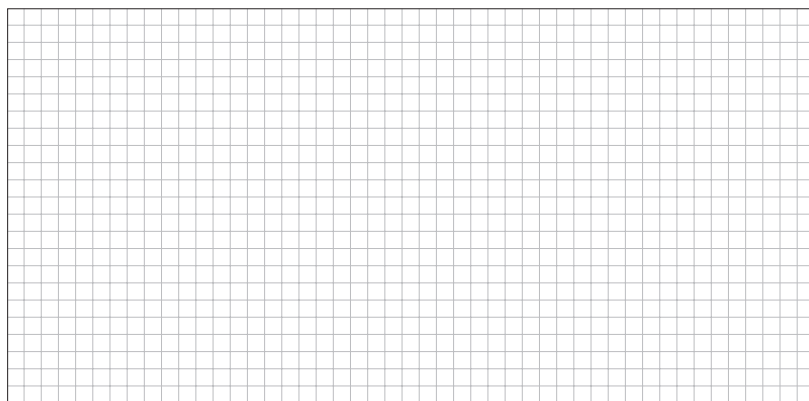
marine environment  high number of operations  operations/per year  strong vibration  dusty air

humidity  % other: \_\_\_\_\_

**Direction of unreeling (seen from slipping unit)**

standard anticlockwise  clockwise

sketch (please fill in, important): max. installation dimensions:  $\varnothing$  =  mm total width:  mm



**Note**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

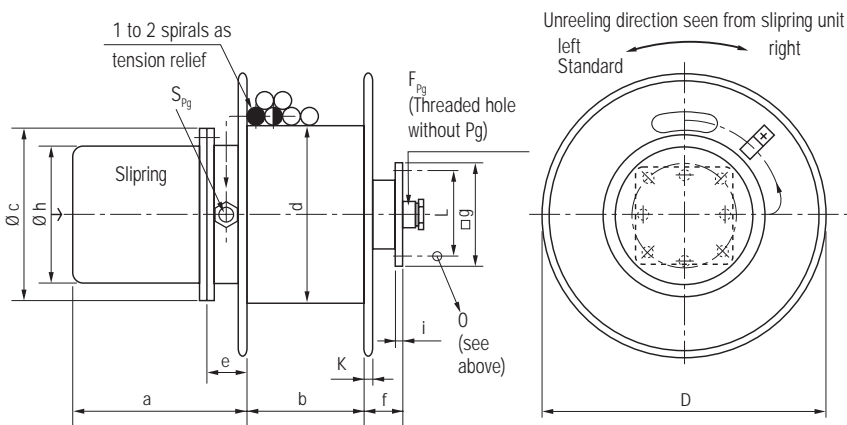
\_\_\_\_\_

# Standard Spring Cable Reels

## Dimensions and weights

The standard range of ALFO spring reels are only a limited part of the total ALFO range. The standard range still covers a large spectrum of applications and requirements. All standard spring reels are made of hot dip galvanised steel and are designed for heavy duty. Drum and slipring assembly have protection IP65/66. Each reel is supported by two roller bearings on a strong self supporting shaft.

Springs are made of special high- grade steel ensuring strong force and long lifetime. The sliprings housing (up to  $\varnothing 245$ ), made in strong glassfiber reinforced plastic material, is water- and weather proof. Technical data of the slipring assemblies are found in the tables type 190 to 500.



### Mounting flange:

- Type 190/220/280: Two hole diameters with 4 holes each  
 $\varnothing 100 - 4 \times 13 \varnothing$   
 $\varnothing 125 - 4 \times 11 \varnothing$  in the corners
- Type 400/500: Hole diameter  $\varnothing 140-180$   
 $4 \times 17 \varnothing$  in the corners
- Needed free space for:  
 $F_{Pg} 21 = \varnothing 40$ ,  
 $F_{Pg} 29 = \text{min. } \varnothing 50$ ,  
 $F_{Pg} 36 = \text{min } \varnothing 60$ ,  
 $F_{Pg} 42 = \text{min } \varnothing 70 \text{ mm}$ .



# CAVOTEC ALFO spring reel range - type 125 to 500

In the following tables (page 10 to 25) you will find the ALFO range of spring cable reels for reeling on wide drums. The range is constantly enlarged to comprise all new market requirements. All other versions of spring reels, such as hose reels, monospiral reels, flat cable reels, special reels etc. are to be found in separate catalogues and data sheets.

Our 25 year experience in the field of spring driven reels guarantees the highest quality in product and service. Please contact us with your requests - we will be proud to serve you.

**New - we would like to introduce.** A new generation reeling cables featuring high axial tension. These cables also have a significantly reduced diameter and weight which yields smaller reels and more economic solutions.

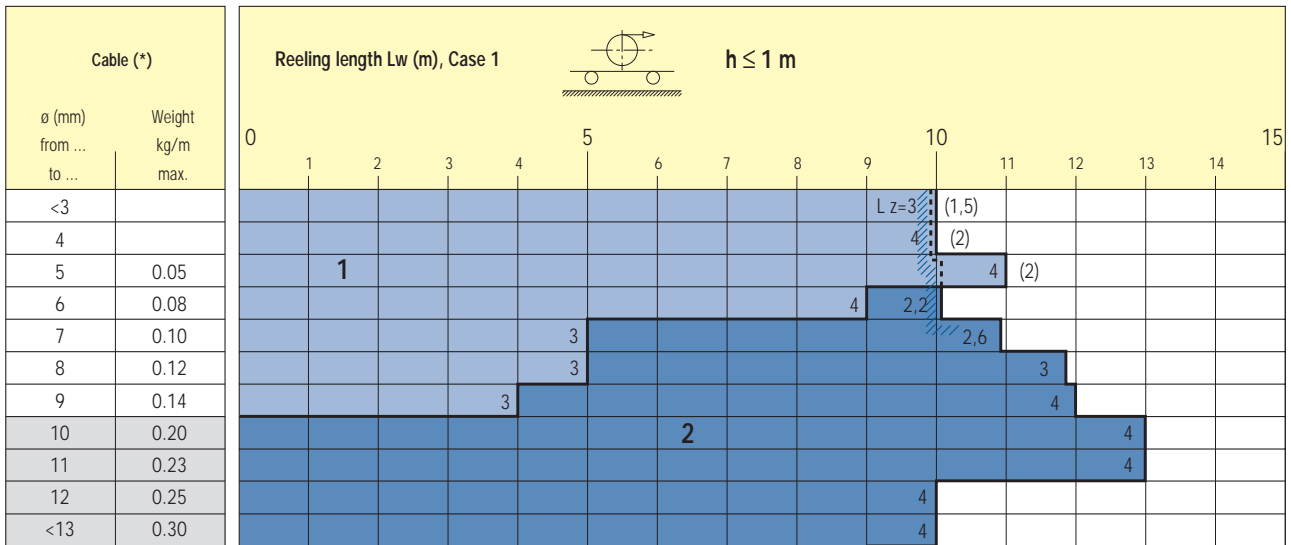
New special reeling cables			
Special reeling cable NSHT-Special			Max. allowed tension N
Cross sec.	kg/m	Ø (mm)	
4 x 1,5	0,14	10,2	400
5 x 1,5	0,16	10,8	700
7 x 1,5	0,19	12,9	2200
12 x 1,5	0,34	16,8	2500
18 x 1,5	0,48	18,6	2500
24 x 1,5	0,66	21,3	2500
30 x 1,5	0,77	24,6	2500
36 x 1,5	0,9	25,4	2200
42 x 1,5	1,06	26,5	2500
4 x 2,5	0,2	11,7	500
5 x 2,5	0,24	12,7	800
7 x 2,5	0,32	14,8	2300
12 x 2,5	0,47	18,4	2500
18 x 2,5	0,69	21,1	2500
24 x 2,5	0,94	24,8	2500
30 x 2,5	1,09	27,6	2500
36 x 2,5	1,30	28,2	2500
50 x 2,5	1,80	34,7	2500
4 x 4	0,27	12,5	600
5 x 4	0,33	14,3	900
4 x 6	0,41	16,9	900
5 x 6	0,42	17,8	1500
7 x 6	0,63	20,9	1800
4 x 10	0,63	19,6	2200
5 x 10	0,79	20,9	2500
4 x 16	0,94	23,8	2500
5 x 16	1,2	25,5	2500
4 x 25	1,4	27,7	2500
4 x 35	1,99	32,4	2500
4 x 50	2,68	34,9	2500



ALFSR009

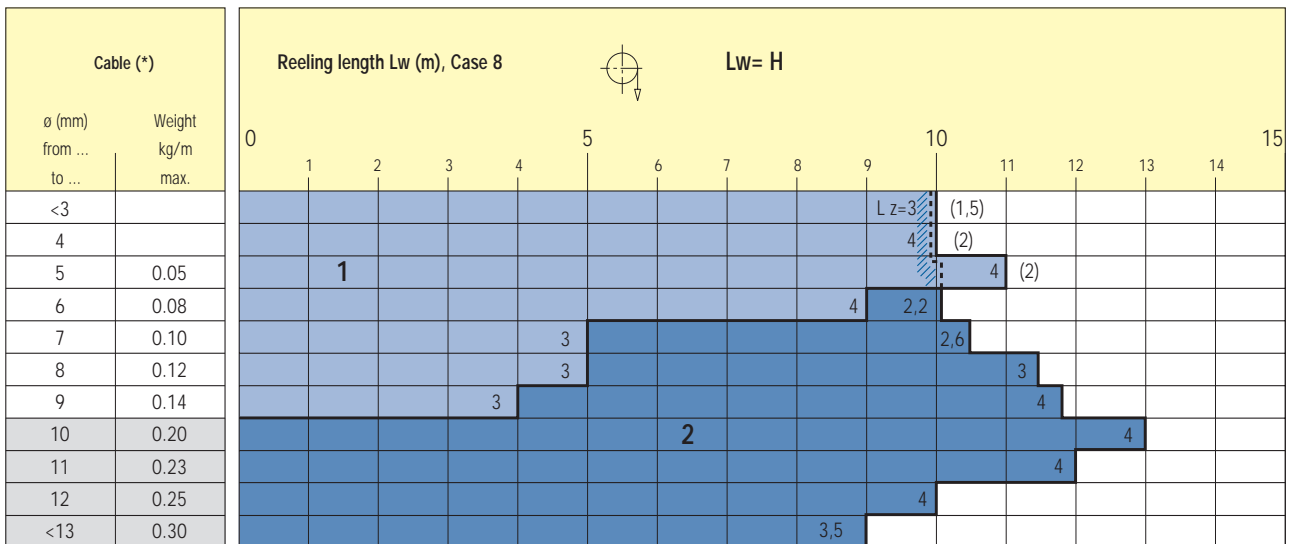
# Spring cable reel type 125

## Choice of cable reel according to Search key 1 and 2.



L z= N° of layers

■ = Grey background: Diameter of axis hole is 9mm



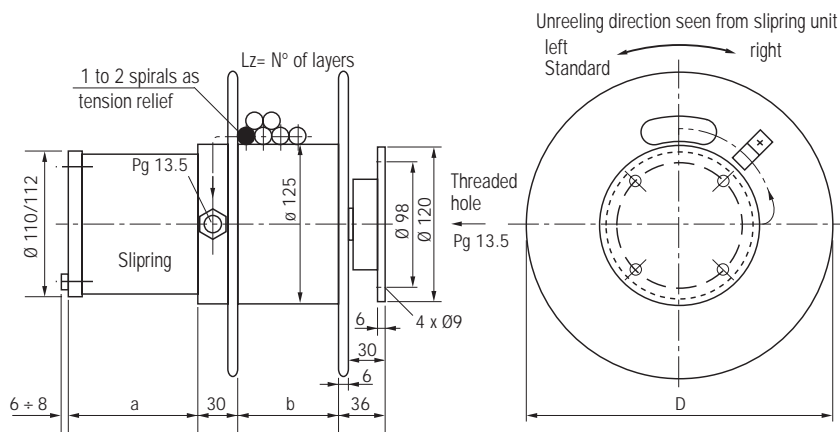
L z= N° of layers

■ = Grey background: Diameter of axis hole is 9mm

(\*) The correct cable data are given by each cable manufacturer and should be compared with the values in the tables.

For vertical applications the cable weight (kg/m) and additional load must be considered. Always check actual reeling length when near capacity limits.

# Type 125



## Technical data:

Drum in hot-dip galvanised steel.  
 Two bearings on each side in aluminium housings.  
 Springs are made of high-grade steel for long lifetime.  
 Slipring housing in strong glassfiber reinforced plastic material.  
 Protection: IP55  
**Axis hole Slipring Type 30:  $\varnothing$  9 mm**  
**Axis hole Slipring Type 58:  $\varnothing$  11 mm**

Special dimensions

b = 70

D = 220

Search key	Drum type	Slipring type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d $\varnothing$	D $\varnothing$	b	Za	Fa	Fe	Z	n vor	n Res.	n turns	
1	12180410AA -	30	125	180	36	0,8	0,7	2,2	2,6	2 u.>	1	30	3,6
2	12240812AA -		125	240	80	1,6	1,4	4,3	5,2	2 u.>	1	30	4,8
Special	12240410AA -	58	125	240	36	0,8	0,7	2,2	2,6	2 u.>	1	30	3,8
Special	12180812AA -		125	180	80	1,6	1,4	4,3	5,2	2 u.>	1	30	4,6

## Technical data for Sliprings

Drum type	Slipring type	N° of poles	Slipring			Housing $\varnothing$ (mm)
			Current 100% ED, max. A	Cross sec mm <sup>2</sup>	Max. voltage V	
12...	30	10	16	1,5	380	110
	58	12	16	1,5	125/380/500	110

## Housing dimensions

Dimension a - Standard depth of housing in relations to N° of poles											PG-hole on housing	
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles		Dim.
3	80	4	90	5	105	6	120	7	130	10	165	13,5
4/-/-		6/4/-		8/6/4		12/10/8		-/12/10		-/-/12	140	13,5

Slipring type	Standard rings and brushes	Multi layer silverplating and silver brushes
30	50 m A < at 24 V, max 16A, 380V	
58	30 m A < at 24 V, max 16A, 500V	Video signals and Data signals

▼ Sliprings connected to cable terminals

# Spring cable reel type 190

## Choice of cable reel according to Search key 1.1 to 3.10.

Cable (*)		Reeling length Lw (m), Case 1		h ≤ 1 m	
ø (mm)	Weight from ... to ... kg/m max.	0	30	0	30
<8	0.09	1	29	1	29
8 - 10	0.15	2	28	2	28
10 - 12	0.25	3	27	3	27
12 - 14	0.30	4	26	4	26
14 - 16	0.40	5	25	5	25
16 - 18	0.45	6	24	6	24
18 - 20	0.55	7	23	7	23

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
							L z=1											2										2,8		
							1			2,5							2,4			3,9								3,5		
							1,4										2,8											4,2		
			1,1				1,7									2,7	2,6		3,5									5		
								1,9							2,7					4		4,2								
								2											4											
							2																							

L z= N° of layers

Grey background: Diameter of axis hole is 15mm

Cable (*)		Reeling length Lw (m), Case 8		Lw = H	
ø (mm)	Weight from ... to ... kg/m max.	0	30	0	30
<8	0.09	1	29	1	29
8 - 10	0.15	2	28	2	28
10 - 12	0.25	3	27	3	27
12 - 14	0.30	4	26	4	26
14 - 16	0.40	5	25	5	25
16 - 18	0.45	6	24	6	24
18 - 20	0.55	7	23	7	23

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
							L z=1											2										2,8		
							1			2,5							2,4			3,9								3,5		
							1,4										2,7			3										
			1,1				1,7								2,7	3,10				3,8										
								1,9		2,8		2,7						3,9												
								2				3,1						3,8												
							2				3																			

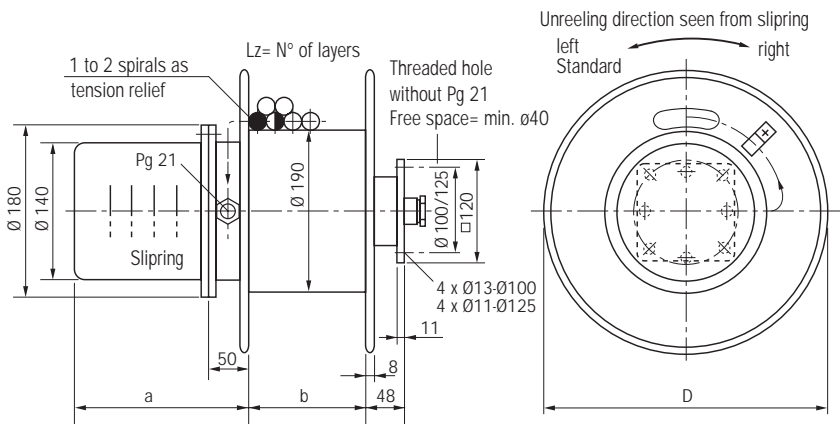
L z= N° of layers

Grey background: Diameter of axis hole is 15mm



(\*) The correct cable data are given by each cable manufacturer and should be compared with the values in the tables. For vertical applications the cable weight (kg/m) and additional load must be considered. Always check actual reeling length when near capacity limits.

# Type 190



## Technical data:

Drum in hot-dip galvanised steel.  
Two bearings on each side of axis.  
Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
Slipring housing in strong fiberglass reinforced plastic material.  
Protection: IP65/66  
**Axis hole: ø 15 mm**

Special dimensions

b = 110/ 180/ 215

Search key	Drum type	Slipring type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns	
1.1	19291410BA -	45	190	290	136	3,4	2,9	6,8	7,8	3	1	17,5	10,0
2.5	19291420BA -	46	190	290	136	3,4	2,9	6,8	7,8	6	2	35	12,5
2.6	19331420BA -	47	190	330	136	3,4	2,9	6,8	7,8	6	2	35	13,1
2.7	19361420BA -	58	190	360	136	3,4	2,9	6,8	7,8	6	2	35	13,7
2.8	19361420DA -		190	360	136	5,0	3,7	11,0	12,0	4	2	26	15,0
3.9	19361430BA -	Special	190	360	136	3,4	2,9	6,8	7,8	9	3	53	15,8
3.10	19361430DA -		190	360	136	5,0	3,7	11,0	12,0	6	3	39	18,0

## Technical data for Sliprings

Drum type	type	Slipring				Housing Ø (mm)
		N° of poles	Current 100% ED, max. A	Cross sec mm²	Max. voltage V	
19...	45	18	25	(2,5²)	415	140
	46	5	25	(4²)	415	140
	47	5	50	(6²)	500	140
	58	24	16	(1,5²)	125/380/500	140

## Haubenmaße

Dimension a - Standard depth of housing in relations to N° of poles										PG - hole in housing
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
4	130	5	150	8	190	12	245	18	325	16
4	130	5	150	—	—	—	—	—	—	21
3	130	4	150	5	190	—	—	—	—	21
8/8/6	130	12/10/8	150	22/18/14	190	24/24/24	245	—	—	16
										21

Slipring type	Standard rings and brushes	Multi layer silverplating and silver brushes
45	50 m A < at 24 V and over max. 25 A, 415 V	—
58	30 m A < at 24 V and over max 16 A, 500 V	Video signals and Data signals

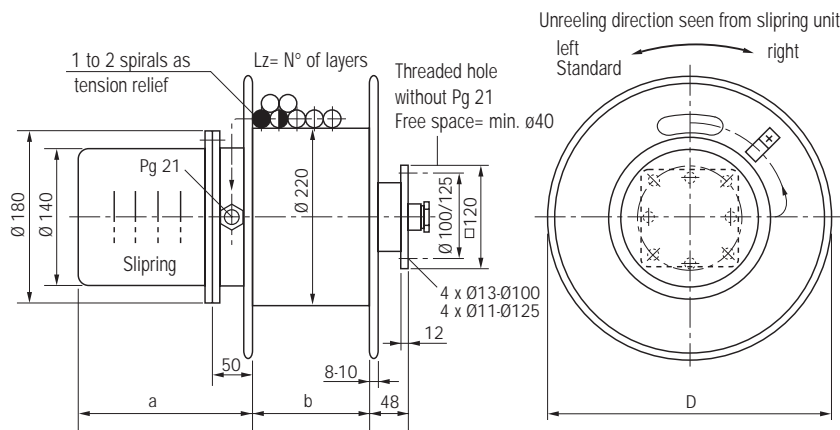
▼ Sliprings connected to cable terminals  
For size 58 only up to 24 poles

Standard model





# Type 220



## Technical data:

Drum in hot-dip galvanised steel.  
 Two bearings on each side of axis.  
 Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
 Slirping housing in strong glassfiber reinforced plastic material.  
 Protection: IP65/66  
**Axis hole: ø 15 mm**

Special dimensions

b = 215

Search key	Drum type	Slirping type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d ø	Dø	b	Za	Fa	Fe	Z	n var	n Res.	n turns	
1.1	22301410BC -	45	220	300	136	2,5	2,4	5,8	6,1	3	1,5	20,5	12
1.2	22361410BC -		220	360	136	2,5	2,4	5,8	6,1	3	1,5	20,5	12,6
1.3	22361410DC -		220	360	136	3,5	3,3	10,3	10,8	2	1,5	16,5	12,8
1.4	22431410DC -		220	430	136	3,5	3,3	10,3	10,8	2	1,5	16,5	13
2.5	22361420BC -	46	220	360	136	3	2,7	5,8	6,1	8	3	41	14,7
2.6	22431420BC -		220	430	136	3	2,7	5,8	6,1	8	3	41	15
2.7	22361420DC -	47	220	360	136	3,5	3,3	10,3	10,8	4	3	33	15
2.8	22431420DC -		220	430	136	3,5	3,3	10,3	10,8	4	3	33	16
2.9	22431420EB -	58	220	430	136	6,1	5,7	14,5	15	5	2	25	18
3.10	22361830DC -		220	360	180	3,5	3,3	10,3	10,8	6	4,5	49,5	19,5
3.11	22431830DC -	Special	220	430	180	3,5	3,3	10,3	10,8	6	4,5	49,5	20
3.12	22431830EB -		220	430	180	6,1	5,7	14,5	15	7,5	3	37,5	22
4.13	22431840DC -		220	430	180	3,5	3,3	10,3	10,8	8	6	66	25
4.14	22431840EB -		220	430	180	6,1	5,7	14,5	15	10	4	50	30

## Technical data for Slirpings

Drum type	type	N° of poles	Slirping			Housing ø (mm)
			Current ED, max. A	100% Cross sec. mm²	Max. voltage V	
22...	45	18	25	2,5	415	140
	46	5	25	4	415	140
	47	5	50	6	500	140
	58	24	16	1,5	125/380/500	140

## Housing dimensions

Dimension a - Standard depth of housing in relations to N° of poles										PG- hole on housing
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
4	130	5	150	8	190	12	245	18	325	16-21
4	130	5	150	—	—	—	—	—	—	12-21
3	130	4	150	5	190	—	—	—	—	21
8/8/6	130	12/10/8	150	22/18/14	190	24/24/24	245	—	—	16-21

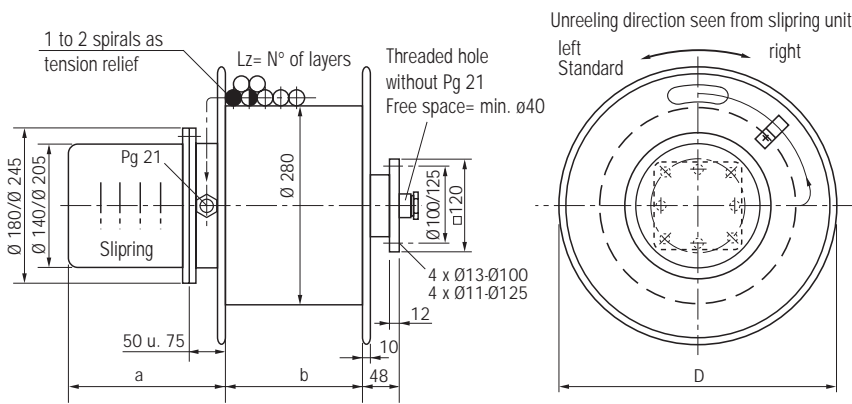
Slirping type	Standard rings and brushes	Multi layer silverplating and silver brushes
45	50 m A < at 24 V and over max. 25 A, 415 V	—
58	30 m A < at 24 V and over max 16 A, 500 V	Video signals and Data signals

▼ Slirpings connected to cable terminals  
 For size 58 only up to 24 poles

Standard model



# Type 280



## Technical data:

Drum in hot-dip galvanised steel.  
 Two bearings on each side of axis.  
 Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
 Slirping housing in strong glassfiber reinforced plastic material.  
 Protection: IP65/66  
**Axis hole: ø 20 mm**

Special dimensions b = 136/ 215/ 250, D = 460

Search key	Drum type	Slirping type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns	
1.1	28431810DB —	02	280	430	180	3,0	2,5	7,0	9,0	3	1,0	25,0	21,0
1.2	28501810DB —		280	500	180	3,0	2,5	7,0	9,0	3	1,0	25,0	22,0
1.3	28361810EA —		280	360	180	4,5	4,0	10,0	12,0	3	1,5	21,5	21,0
1.4	28431810EA —	03	280	430	180	4,5	4,0	10,0	12,0	3	1,5	21,5	21,5
2.5	28431812EA —		280	430	180	9,0	8,0	20,0	24,0	3	1,5	21,5	26,0
2.6	28501812EA —		280	500	180	9,0	8,0	20,0	24,0	3	1,5	21,5	27,0
3.9	28431820EA —	45	280	430	180	4,5	4,0	10,0	12,0	6	3,0	43,0	26,0
3.10	28501820EA —		280	500	180	4,5	4,0	10,0	12,0	6	3,0	43,0	27,0
3.11	28431820DB —	46	280	430	180	3,0	2,5	7,0	9,0	6	2,0	50,0	27,0
3.12	28501820DB —		280	500	180	3,0	2,5	7,0	9,0	6	2,0	50,0	28,0
3.13	28551820EA —	47	280	550	180	4,5	4,0	10,0	12,0	6	3,0	43,0	28,0
4.14	28431830DB —		280	430	180	3,0	2,5	7,0	9,0	9	3,0	75,0	30,0
4.15	28551830EA —	58	280	550	180	4,5	4,0	10,0	12,0	9	4,5	64,5	32,5
4.16	28431830EA —		280	430	180	4,5	4,0	10,0	12,0	9	4,5	64,5	31,0
5.17	28431840DB —	98	280	430	180	3,0	2,5	7,0	9,0	12	4,0	100,0	34,5
5.18	28501840EA —		280	500	180	4,5	4,0	10,0	12,0	12	6,0	86,0	36,5
5.19	28551840EA —		280	550	180	4,5	4,0	10,0	12,0	12	6,0	86,0	37,0

## Technical data for Slirpings

Drum type	type	Slirping				Housing Ø (mm)
		N° of poles	Current 100% ED, max. A	Cross sec mm²	Max. voltage V	
28...	02	7	50	max 10²	500	205/245
	03	5	90	max 16²	500	205/245
	45	18	25	(2,5²)	415	140/180
	46	5	25	(4²)	415	140/180
	47	5	50	(6²)	500	140/180
	58	24	16	(1,5²)	125/380/500	140/180
	98	36	20	(2,5²)	500	205/245

## Housing dimensions

Dimension a Standard depth of housing in relations to N° of poles														PG- hole on housing
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
—	—	7	205	—	—	—	—	—	—	—	—	—	—	21
—	—	6	205	—	—	—	—	—	—	—	—	—	—	29, (36)
—	—	6	205	—	—	—	—	—	—	—	—	—	—	21
4	130	5	150	8	190	—	—	12	245	—	—	18	325	16
—	—	5	150	—	—	—	—	—	—	—	—	—	—	21
4	130	5	150	—	—	—	—	—	—	—	—	—	—	16
—	—	5	150	—	—	—	—	—	—	—	—	—	—	21
3	130	4	150	5	190	—	—	7	245	—	—	—	—	21
—	—	4	150	5	190	—	—	7	245	—	—	—	—	21
8	130	12	150	22	190	—	—	24	245	—	—	—	—	16
8		10		18		—	—	—		—	21			
6	—	8	—	14	—	—	—	—	—	—	—	—	—	21
—	—	12	205	24	295	24	295	36	385	—	—	—	—	21
—	—	12	205	24	295	24	295	36	385	—	—	—	—	29, (36)

Slirpings connected to cable terminals  
 For size 58 only up to 24 poles

  Standard model

# Spring cable reel type 280 HA (with higher spring force)

## Choice of cable reel according to Search key 1.5 to 6.22.

Cable (*)		Reeling length Lw (m), Case 1		h = 1 - 1,5 m	
ø (mm)	Weight kg/m max.	Lz=0,8		Diagram	
from ... to ...		1 2 3 4	5 10 15 20 25 30 35 40 45 50 55 60	1 2 3 4	5 10 15 20 25 30 35 40 45 50 55 60
<8	0.09				
8 - 10	0.15		1,3		2,6
10 - 12	0.25		0,8		2,4
12 - 14	0.30		1,5		5,20
14 - 16	0.40		1,0		3,3
16 - 18	0.45		1,2		4
18 - 20	0.55		3,14		4,17
20 - 22	0.70		2,4		3,5
22 - 24	0.80		1,3		3,9
			1,5		5,21
			1,6		4,3
			1,9		5,2
			3,15		4,9
			2,4		5
			4		

Lz= N° of layers

■ = Grey background: Diameter of axis hole is 20mm

Cable (*)		Reeling length Lw (m), Case 8		Lw= H	
ø (mm)	Weight kg/m max.	Lz=0,8		Diagram	
from ... to ...		1 2 3 4	5 10 15 20 25 30 35 40 45 50 55 60	1 2 3 4	5 10 15 20 25 30 35 40 45 50 55 60
<8	0.09				
8 - 10	0.15		1,3		2,6
10 - 12	0.25		0,8		2,4
12 - 14	0.30		1,5		5,20
14 - 16	0.40		1,0		3,3
16 - 18	0.45		1,2		4
18 - 20	0.55		3,14		4,17
20 - 22	0.70		2,4		3,3
22 - 24	0.80		1,3		2,7
			1,5		2,8
			1,6		2,9
			1,9		3,3
			2,4		6,22
			3,15		3,7
			4		4

Lz= N° of layers

■ = Grey background: Diameter of axis hole is 20mm

## Technical data for Sliprings

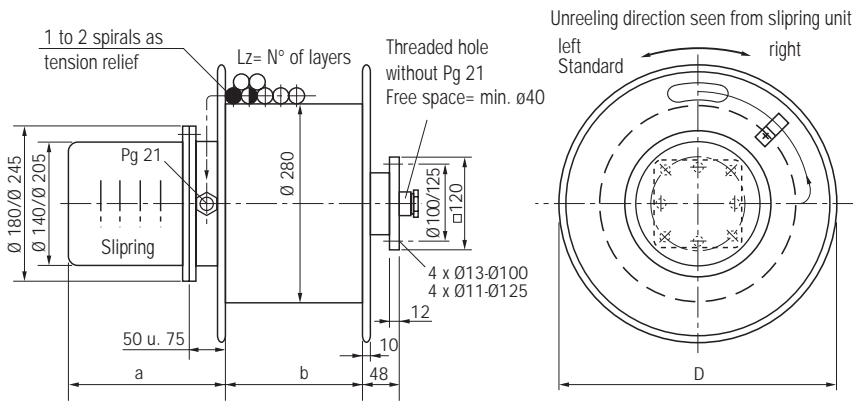
Slipring type	Standard rings and brushes	Multi layer silverplating and silver brushes
02	50 m A < at 24 V <, max. 50 A, 500V	—
45	50 m A < at 24 V and over max. 25 A, 415 V	—
58	30 m A < at 24 V and over max. 16 A, 500 V	Video signals and Data signals
98	50 m A < at 24 V max. 20 A, 500 V	1 m A < at 10 mV and over

(\*) The correct cable data are given by each cable manufacturer and should be compared with the values in the tables.

For vertical applications the cable weight (kg/m) and additional load must be considered. Always check actual reeling length when near capacity limits.



# Type 280 HA



Special dimensions b= 136/ 215/ 250, D = 460

## Technical data:

Drum in hot-dip galvanised steel.  
 Two bearings on each side of axis.  
 Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
 Slipping housing in strong glassfiber reinforced plastic material.  
 Protection: IP65/66  
**Axis hole: ø 20 mm**

*The reels of type 280 HA have springs with higher spring force and should be used in special and heavy-duty applications. For example in cases where speed is very low, or where the cable is guided through guiding systems with high friction losses, or in extremely low or high ambient temperature.*

Search key	Drum type	Slipping type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns	
1.5	28361810HA -	02	280	360	180	7,1	6,8	17,5	19	3	1,5	17,5	21,5
1.6	28431810HA -		280	430	180	7,1	6,8	17,5	19	3	1,5	17,5	21,8
3.14	28431820HA -		280	430	180	7,1	6,8	17,5	19	6	3	35	28
3.15	28551820HA -		280	550	180	7,1	6,8	17,5	19	6	3	35	29
4.17	28431830HA -		280	430	180	7,1	6,8	17,5	19	9	4,5	52,5	32
4.18	28501830HA -		280	500	180	7,1	6,8	17,5	19	9	4,5	52,5	32,5
4.19	28551830HA -		280	550	180	7,1	6,8	17,5	19	9	4,5	52,5	33
5.20	28431840HA -		280	430	180	7,1	6,8	17,5	19	12	6	70	38
5.21	28552140HA -		280	550	215	7,1	6,8	17,5	19	12	6	70	39
6.22	28551822HA -		280	550	180	14	13,5	35	38	6	3	35	39

## Technical data for Slippings

Drum type	Slipping type	N° of poles	Current 100% ED, max. A	Cross sec mm²	Max. voltage V	Housing Ø (mm)
28...	02	7	50	max 10²	500	205/245
	03	5	90	max 16²	500	205/245
	45	18	25	(2,5²)	415	140/180
	46	5	25	(4²)	415	140/180
	47	5	50	(6²)	500	140/180
	58	24	16	(1,5²)	125/380/500	140/180
	98	36	20	(2,5²)	500	205/245

▼ Slippings connected to cable terminals  
 For size 58 only up to 24 poles

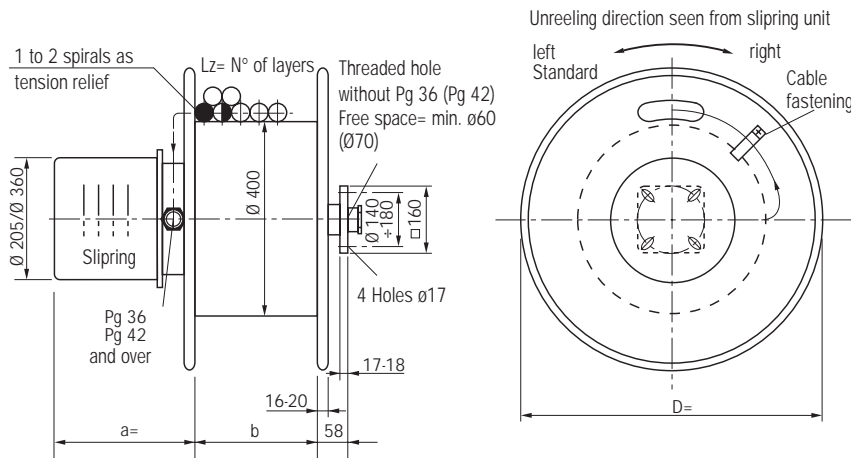
## Housing dimensions

Dimension a Standard depth of housing in relations to N° of poles														PG- hole on housing
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
—	—	7	205	—	—	—	—	—	—	—	—	—	—	21
—	—	6	205	—	—	—	—	—	—	—	—	—	—	21
4	130	5	150	8	190	—	—	12	245	—	—	18	325	16
4	130	5	150	—	—	—	—	—	—	—	—	—	—	21
3	130	4	150	6	190	—	—	7	245	—	—	—	—	21
8	130	12	150	22	190	—	—	24	245	—	—	—	—	16
8		10		18		24		21						
6	—	12	205	24	295	24	295	36	385	—	—	—	—	21
—	—	—	—	—	—	—	—	—	—	—	—	—	—	29, (36)

Standard model



# Type 400



## Technical data:

Drum in hot-dip galvanised steel.  
 Two bearings on each side of axis.  
 Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
 Slipring housing in strong glassfiber reinforced plastic material.  
 Protection: IP65/66  
**Axis hole: ø 30 mm**

Special dimensions b = 215/ 340/ 150

Search key	Drum type	Slipring type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns	
1.1	40562810TA -	02	400	560	280	7	6	20	24	2,5	1,5	21	54
1.2	40562810SA -		400	560	280	6	5	13	15	3,5	1,5	25	52
1.3	40632810TA -	03	400	630	280	7	6	20	24	2,5	1,5	21	56
1.4	40712810TA -		400	710	280	7	6	20	24	2,5	1,5	21	58
1.6	40632810UA -	05	400	630	280	16	13	39	46	2,5	1,0	16,5	59
2.7	40562812TA -		400	560	280	14	12	40	48	2,5	1,5	21	68
2.8	40632812TA -	09	400	630	280	14	12	40	48	2,5	1,5	21	70
3.9	40632813TA -		400	630	280	21	18	60	72	2,5	1,5	21	83
3.10	40712813TA -	(45)	400	710	280	21	18	60	72	2,5	1,5	21	84
4.11	40562820TA -		400	560	280	7	6	20	24	5	3	42	68
4.12	40632820SA -	(58)	400	630	280	6	5	13	15	7	3	50	65
4.13	40712820TA -		400	710	280	7	6	20	24	5	3	42	72
4.14	40802820TA -	98	400	800	280	7	6	20	24	5	3	42	75
4.15	40562820UA -		400	560	280	16	13	39	46	5	2	33	74
5.17	40632830SA -	98	400	630	280	6	5	13	15	10,5	4,5	75	75
5.18	40712830SA -		400	710	280	6	5	13	15	10,5	4,5	75	78
5.19	40632830TA -	98	400	630	280	7	6	20	24	7,5	4,5	63	83
5.20	40712830TA -		400	710	280	7	6	20	24	7,5	4,5	63	84
5.21	40802830TA -	98	400	800	280	7	6	20	24	7,5	4,5	63	86
5.22	40632830UA -		400	630	280	16	13	39	46	7	3,5	49,5	92

## Technical data for Sliprings

Drum type	Slipring type	N° of poles	Current 100% ED, max. A	Cross sec mm²	Max. voltage V	Housing Ø (mm)
40...	02	24	50	max 10²	500	205
	03	17	90	max 16²	500	205
	06	7 u.>	200	max 35²	660	360
	45	18	25	2,5²	415	205
	80	32	16	1,5²	125/380/500	205
98	42/60	20/16	2,5²/1,5²	500	205	

Sliprings connected to cable terminals  
 For size 58 only up to 24 poles

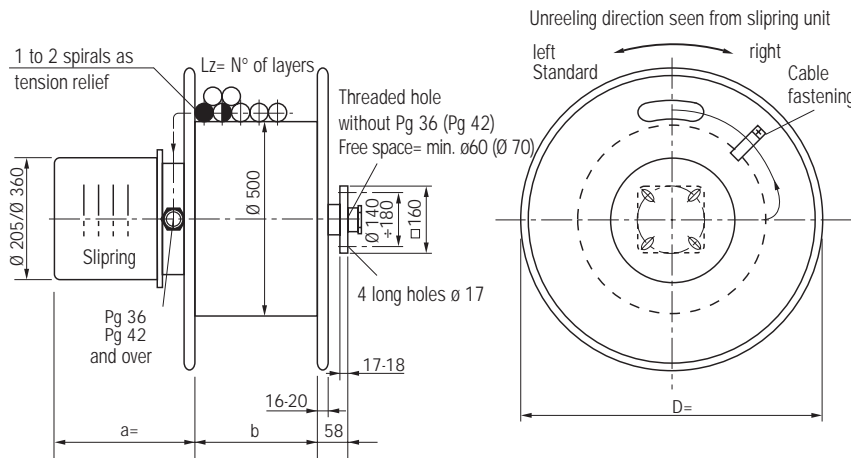
## Housing dimensions

Dimension a Standard depth of housing in relations to N° of poles								PG- hole on housing
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
7	205	11	295	16	390	19	430	according to cable Ø Pg 13,5
6	205	10	295	14	390	17	430	
4	225	7	350					
7	205	13	295	18	390			
24/22/18	205	32	295					
12	205	24	295	36	390	42	430	16
								21
								29
								36
								42

Standard model



# Type 500



**Technical data:**  
 Drum in hot-dip galvanised steel.  
 Two bearings on each side of axis.  
 Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
 Slirpring housing in strong glassfiber reinforced plastic material.  
 Protection: IP65/66  
**Axis hole: ø 30 mm**

Special dimension b= 215, D= > 900

Search key	Drum type	Slirpring type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)	
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns		
1.1	50712810TA -	02	500	710	280	6	5	17	20	2,5	1,5	21	78	
1.2	50802810TA -		500	800	280	6	5	17	20	2,5	1,5	21	80	
1.3	50712810UA -		500	710	280	14	11	31	38	2,5	1	16,5	82	
1.4	50802810UA -		500	800	280	14	11	31	38	2,5	1	16,5	84	
1.5	50902810UB -		500	900	280	10	8,5	29	35	2,5	1,5	20	88	
2.6	50802812TA -		500	800	280	12	10	34	40	2,5	1,5	21	84	
2.7	50802812UA -		500	800	280	28	22	62	76	2,5	1	16,5	90	
3.8	50802813TA -		500	800	280	18	15	51	60	2,5	1,5	21	88	
3.9	50802813UA -		500	800	280	42	33	93	114	2,5	1	16,5	110	
4.10	50802820TA -		500	800	280	6	5	17	20	5	3	42	84	
4.11	50902820TA -		500	900	280	6	5	17	20	5	3	42	90	
4.12	50802820UA -		(45)	500	800	280	14	11	31	38	5	2	33	90
4.13	50802820UB -		500	800	280	10	8,5	29	35	5	3	40	95	
4.14	50902820UB -		500	900	280	10	8,5	29	35	5	3	40	102	
5.15	50802830TA -		(58)	500	800	280	6	5	17	20	7,5	4,5	63	88
5.16	50802830UA -		500	800	280	14	11	31	38	7,5	3	49,5	110	
5.17	50902830UA -		500	900	280	14	11	31	38	7,5	3	49,5	115	
5.18	50902830UB -		500	900	280	10	8,5	29	35	7,5	4,5	60	118	
5.19	50903430UB -		500	900	340	10	8,5	29	35	7,5	4,5	60	125	
6.20	50803440TA -		500	800	340	6	5	17	20	10	6	84	115	
6.21	50903440UB -		500	900	340	10	8,5	29	35	10	6	80	148	

## Technical data for Slirprings

Drum type	type	N° of poles	Slirpring			Housing Ø (mm)
			Current 100% ED, max. A	Cross sec mm²	Max. voltage V	
50...	02	24	50	max 10²	500	205
	03	17	90	max 16²	500	205
	06	7	200	max 35²	660	360
	45	18	25	2,5²	415	205
	80	32	mA - 16A	1,5²	125/380/500	205
	98	42	20	2,5²/1,5²	500	205
	60	16				

## Housing dimensions

Dimension a Standard depth of housing in relations to N° of poles								PG- hole on housing according to cable Ø Pg 13,5
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
7	205	11	295	16	385	19	430	16 21 29 36 42
6	205	10	295	14	385	17	430	
4	225	7	350					
7	205	13	295	18	385			
24/22/18	205	32	295					
12	205	24	295	36	385	42	430	

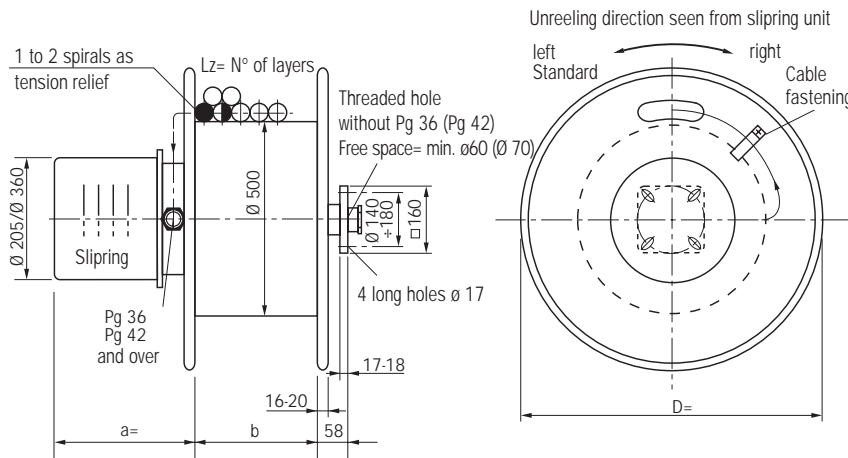
Slirprings connected to cable terminals. For size 58 only up to 24 poles

   Standard model





# Type 500



## Technical data:

Drum in hot-dip galvanised steel.  
Two bearings on each side of axis.  
Springs are made of high-grade steel for long lifetime and mounted in separate housing.  
Slirping housing in strong glassfiber reinforced plastic material.  
Protection: IP65/66  
**Axis hole: ø 30 mm**

Special dimension b= 215

Search key	Drum type	Slirping type	Dimensions (mm)			Spring force (daN)				Number of spring turns			Weight (kg)	
			d ø	Dø	b	Za	Fa	Fe	Z	n vor	n Res.	n turns		
1.1	50712810TA -	02	500	710	280	6	5	17	20	2,5	1,5	21	78	
1.2	50802810TA -		500	800	280	6	5	17	20	2,5	1,5	21	80	
1.3	50712810UA -		500	710	280	14	11	31	38	2,5	1	16,5	82	
1.4	50802810UA -		500	800	280	14	11	31	38	2,5	1	16,5	84	
1.5	50902810UB -		500	900	280	10	8,5	29	35	2,5	1,5	20	88	
2.6	50802812TA -		500	800	280	12	10	34	40	2,5	1,5	21	84	
2.7	50802812UA -		500	800	280	28	22	62	76	2,5	1	16,5	90	
3.8	50802813TA -		500	800	280	18	15	51	60	2,5	1,5	21	88	
3.9	50802813UA -		500	800	280	42	33	93	114	2,5	1	16,5	110	
4.10	50802820TA -		500	800	280	6	5	17	20	5	3	42	84	
4.11	50902820TA -		500	900	280	6	5	17	20	5	3	42	90	
4.12	50802820UA -		(45)	500	800	280	14	11	31	38	5	2	33	90
4.13	50802820UB -		(47)	500	800	280	10	8,5	29	35	5	3	40	95
4.14	50902820UB -		(58)	500	900	280	10	8,5	29	35	5	3	40	102
5.15	50802830TA -		500	800	280	6	5	17	20	7,5	4,5	63	88	
5.16	50802830UA -		500	800	280	14	11	31	38	7,5	3	49,5	110	
5.17	50902830UA -		500	900	280	14	11	31	38	7,5	3	49,5	115	
5.18	50902830UB -		500	900	280	10	8,5	29	35	7,5	4,5	60	118	
5.19	50903430UB -		500	900	340	10	8,5	29	35	7,5	4,5	60	125	
6.20	50803440TA -		500	800	340	6	5	17	20	10	6	84	115	
6.21	50903440UB -		500	900	340	10	8,5	29	35	10	6	80	148	

## Technical data for Slirpings

Drum type	type	N° of poles	Slirping			Housing Ø (mm)
			Current 100% ED, max. A	Cross sec mm²	Max. voltage V	
50...	02	24	50	max 10²	500	250
	03	17	90	max 16²	500	250
	06	7u>	200	max 35²	660	360
	45	18	25	2,5²	415	250
	47	7	50	6²	500	250
	80	32	mA - 16A	1,5²	125/380/500	250
	98	42 - 2,5²	20	2,5²/1,5²	500	250
		60 - 1,5²	16			

## Housing dimensions

Dimension a Standard depth of housing in relations to N° of poles								PG- hole on housing according to cable Ø Pg 13,5
Poles	Dim.	Poles	Dim.	Poles	Dim.	Poles	Dim.	
7	205	11	295	16	385	19	430	16 21 29 36 42
6	205	10	295	14	385	17	430	
4	225	7	350					
7	205	13	295	18	385			
5	205	7 u>	295					
24/22/18	205	32	295					
12	205	24	295	36	385	42	430	

▼ Slirpings connected to cable terminals. For size 58 only up to 24 poles

Standard model

# Application of Cavotec Alfo Spring - driven Reels



On a DEMAG Mobile Crane.



On a DEMAG Mobile Crane.



On a semi-mobile Crane in Finland.



On a PAUS freight elevator.



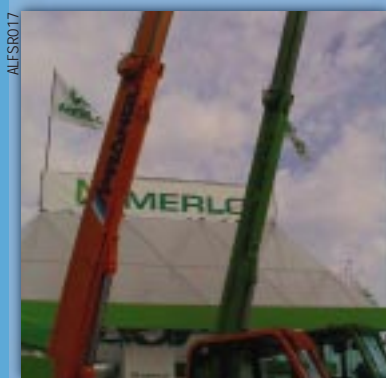
On a BROKK building machine.



On a DEMAG Crane.



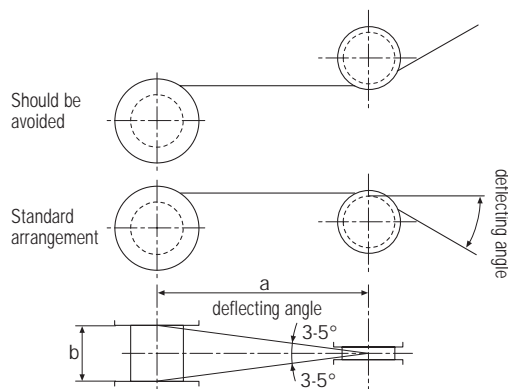
On a PAUS freight elevator.



On a MERLO Mobile Crane.



On a LIEBHERR Mobile Crane.

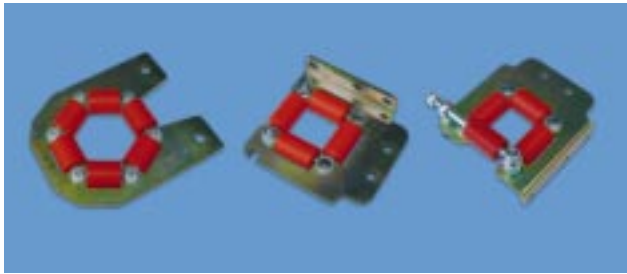


## Springs

AA1-A-AA-0000	Spring AA
AA1-A-AB-0000	Spring AB
AA1-A-BA-0000	Spring BA
AA1-A-BC-0000	Spring BC
AA1-A-DA-0000	Spring DA
AA1-A-DB-0000	Spring DB
AA1-A-DC-0000	Spring DC
AA1-A-EA-0000	Spring EA
AA1-A-EB-0000	Spring EB
AA1-A-HA-0000	Spring HA
AA1-A-SA-0000	Spring SA
AA1-A-TA-0000	Spring TA
AA1-A-UA-0000	Spring UA
AA1-A-UB-0000	Spring UB

# Accessories

ALFSR020



Our specially developed accessories have proven themselves over the years in many special applications. They guarantee a very smooth cable transit ensuring a long working life.

Art. Nr.
A06-B-01980-OZ
A06-B-02000-OZ
A06-B11180-OZ

ALFSR021



## Cable Guide Noose

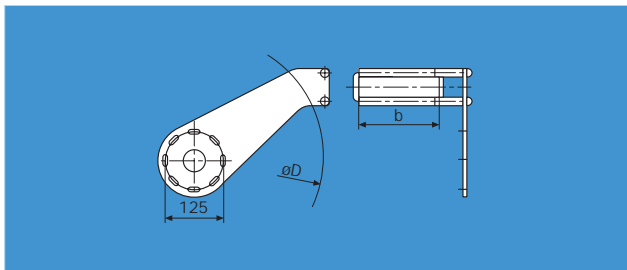
Art. Nr.	Type	Cable Ø
A09-B-Z0810-1	Type - 08	8-10 mm
A09-B-Z1013-1	Type - 12	10-13 mm
A09-BZ1216-1	Type - 15	12-16 mm
A09-B-Z1518-1	Type - 17	15-18 mm
A09-B-Z1822-1	Type - 20	18-22 mm
A09-B-Z2228-1	Type - 25	22-28 mm
A09-B-Z2733-1	Type - 30	27-33 mm
A09-B-Z3338-1	Type - 35	33-38 mm

ALFSR022



## Guidewheels

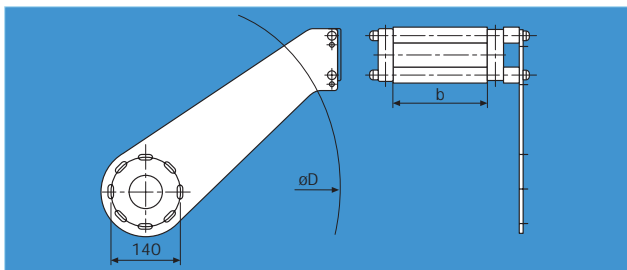
Type	Art.-Nr.	Size	Deflecting angle 3°	Deflecting angle 5°
UR-190	A09-F19035-10	b [mm]	a [mm]	a [mm]
UR-280	A09-F28035-10	40	400	230
UR-400	A09-F40035-10	70	700	400
		110	1050	650
		136	1300	800
		180	1700	1050
		220	2100	1250
		280	2600	1630
		380	3350	1900°



## Guide arm short version for FLT 19/28

Type	Art.-Nr.
Guide arm 19/28-36-14 Ø 360	A06-A193614-OZ
Guide arm 19/28-36-18 Ø 360	A06-A193618-OZ
Guide arm 19/28-36-21 Ø 360	A06-A193621-OZ
Guide arm 19/28-55-14 Ø 550	A06-A195514-OZ
Guide arm 19/28-55-18 Ø 550	A06-A195518-OZ
Guide arm 19/28-55-21 Ø 550	A06-A195521-OZ

- Side plate diameter D: 360mm, 550mm
- Winding width b: 136mm, 180mm, 215mm

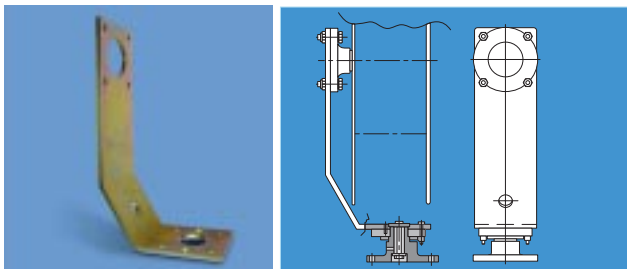


## Guide arm short version for FLT 40/50

Type	Art.-Nr.
Guide arm 40/50-80-21 Ø 800	A06-A408021-OZ
Guide arm 40/50-80-28 Ø 800	A06-A408028-OZ
Guide arm 40/50-80-34 Ø 800	A06-A408034-OZ
Guide arm 40/50-100-21 Ø 1000	A06-A40A021-OZ
Guide arm 40/50-100-28 Ø 1000	A06-A40A028-OZ
Guide arm 40/50-100-34 Ø 1000	A06-A40A034-OZ

- Side plate diameter D: 800mm, 1000mm
- Winding width b: 213mm, 280mm, 340mm

ALFSR023



## Mounting support and pivot bearing for connection to walls, floors and covers

Type	Art.-Nr.	Type	Art.-Nr.
Mounting support 19/28 - Ø 550AA9-L05361-OZ		pivot bearing 19/28	A09-L28000-OZ
Mounting support 40/50 - Ø 800 AA9-L04651-OB			

**Cavotec Group  
Headquarters**

**The Netherlands**  
**Cavotec Group Holdings N.V.**  
Postbus 213  
NL-2950 AE Alblasterdam  
phone: int. 31-78-693 0794  
fax: int. 31-78-693 1212

**U.K.**  
**Cavotec International Ltd**  
Stirling Way, Market Deeping  
Lincolnshire PE6 8AS  
phone: int. 44-1778.346 769  
fax: int. 44-1778.341 850

For more information consult  
our home page on the Internet:  
[www.cavotec.com](http://www.cavotec.com)

E-commerce sites:  
[www.cavotecshop.com](http://www.cavotecshop.com)  
[www.flexiblecables.com](http://www.flexiblecables.com)

**Cavotec Group  
Manufacturing Companies**

**Australia**  
**Cavotec Metool**  
Cardiff (Newcastle)  
Perth

**France**  
**Cavotec RMS**  
Cergy Pontoise (Paris)

**Germany**  
**Cavotec Alfo**  
Overath (Köln)

**Italy**  
**Cavotec Specimas**  
Nova Milanese (Milan)

**Sweden**  
**Cavotec Connectors**  
Dalby (Malmö)

**U.S.A./Canada**  
**Cavotec Inc.**  
Statesville, NC

**Cavotec Partners**

**Brevetti Stendalto**  
Monza, Italy

**De Jong**  
Leerdam, The Netherlands

**Micro-control**  
Stjørdal, Norway

**Pirelli Cavi**  
Milan, Italy

**Cavotec Group  
Sales Companies and Distributors**

**Argentina**  
**Cavotec Latin America**  
Buenos Aires

**Australia**  
**Cavotec Metool**  
Cardiff (Newcastle),  
Brisbane, Sydney, Perth,  
Melbourne

**Bahrain**  
**Cavotec Bahrain**  
Manama

**BeNeLux**  
**Cavotec Benelux**  
Alblasterdam (Rotterdam)  
The Netherlands

**Brasil**  
**Marlin Gantrex**  
Rio de Janeiro

**Chile**  
**Gantrex**  
Santiago

**China**  
**Cavotec China**  
Shanghai

**Denmark**  
**Cavotec Danmark**  
Odense

**Egypt**  
**Ase**, Cairo

**Finland**  
**Cavotec Finland**  
Espoo (Helsinki)

**France**  
**Cavotec RMS**  
Cergy Pontoise (Paris)

**Germany**  
**Cavotec Alfo**  
Eschborn (Frankfurt)

**Hong Kong**  
**Cavotec Hong Kong**  
Shatin

**Indonesia**  
**Cavotec Indonesia**  
Jakarta Utara

**Italy**  
**Cavotec Italia**  
Nova Milanese (Milan)

**Japan**  
**Nippon Ican**  
Tokyo

**Korea**  
**Cavotec Korea**  
Ulsan

**Norway**  
**Cavotec Norge**  
Drammen

**Philippines**  
**Portek Philippines**  
Quezon City

**Saudi Arabia**  
**AKTE**  
Dammam

**Singapore**  
**Cavotec Singapore**  
Singapore

**South Africa**  
**Gantrex**  
Germiston

**Sweden**  
**Cavotec Sverige**  
Stockholm

**Taiwan**  
**Ehrung Industrial**  
Taipei Hsein

**U.A.E.**  
**Cavotec Middle East**  
Dubai,  
Abu Dhabi,  
Bahrain

**U.K. & Ireland**  
**Cavotec UK**  
Market Deeping

**U.S.A. & Canada**  
**Cavotec Inc.**  
Statesville, NC



# Spring Driven Reels



RMS001








# CAVOTEC RMS

## Spring Driven Reels

### The Cavotec Group

Cavotec is the name of a group of companies specialized in power supply technology for cranes and other industrial equipment. It is formed by 6 manufacturing companies located in Australia, France, Germany, Italy, Sweden, UK and U.S.A., as well as by 18 Cavotec sales companies which, together with a network of Distributors, serve more than 30 countries in five continents. Each manufacturing company, no matter where it is located, aims at being a market leader in its field by providing innovative and reliable products to Group customers. Although they manufacture different products in different countries, they are globally supported and coordinated by the Cavotec Group in their product development and marketing activities. Each sales company, and each distributor, has a policy aiming at better serving its local market with the full support of the Cavotec Group.

### Our fields of activity are

-  **Mining, tunnelling**
-  **Steel Mills**
-  **Forestry**
-  **Ports, Terminals**
-  **Robots, Automation**
-  **Offshore**
-  **Constructions**

### Our aim is to be local everywhere

Great emphasis is put in providing the highest quality not only in the selected products, but also in service and backing to their customers. Our philosophy in fact is to be local everywhere.

### RMS, a Cavotec company

Established in 1979, Cavotec RMS is a French manufacturing company, specialised in the development and production of spring driven hose and cable reels and other related equipment, which has recently become a member of the Cavotec Group.

RMS spring driven hose and cable reels described in the following pages, as well as other Cavotec quality products in the field of crane and power technology, are distributed around the world by the Cavotec sales companies and by a network of selected distributors. Cavotec S.A. and RMS Enrouleurs S.A. merged in January 2000 and formed the company Cavotec RMS S.A.

### Contents

Ban series .....	page 3
Hose reels for water .....	page 4
Hose reels for compressed air .	page 5
Hose reels for hydraulic fluid ..	page 6
Cable reels for oxy-acetylen ....	page 7
Cable reels for earthing .....	page 8
Cable reels RM Series .....	page 9
Cable reels MC Series .....	pag 10
Cable reels for storage .....	page 11



# Hose Reels BAN series



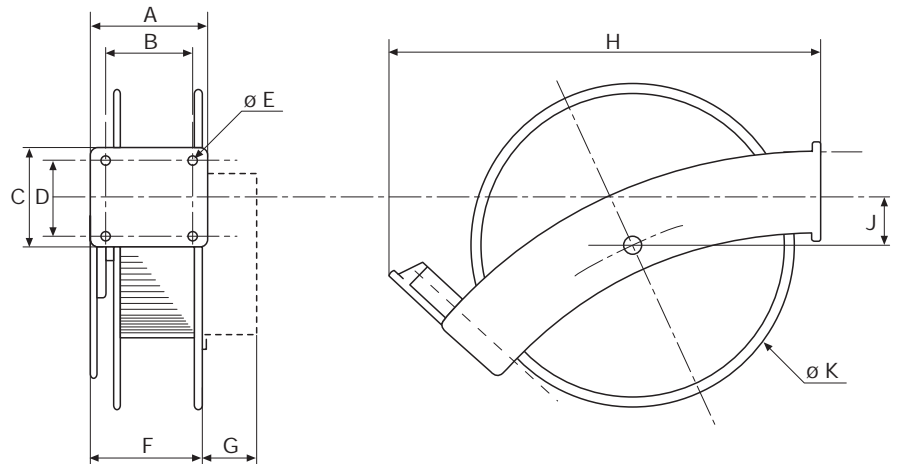
Cavotec RMS has developed the new BAN series of hose reels in order to supply products of the highest quality at the lowest price. All these reels are equipped with a PVC hose for compressed air or water (225 PSI or 15 Bars, up to 60°C) and the cable reels are equipped with HO7RNF 3 x 2,5 mm<sup>2</sup>. If you need a reel with other characteristics, do not hesitate to contact Cavotec. Our sales and technical departments will offer the best solution for your installation.

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Rotating hydraulic swivels are electroless nickel plated
- Locking device for manual operation
- Epoxy-Polyester painted
- Option: anti-corrosion plating

## Fields of application

- Workshop
- Garage
- Petrol station
- Tanker vehicles



Type	A	B	C	D	E	F	G	H	J	K	length	hose I.D.	hose I.D.	pressure	weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m	mm	inch	bar/(psi)	kg
BAN 08/10	130	90	100	70	10	125	—	420	50	300	10	7,9	5/16	15(225)	10
BAN 08/15	150	110	120	90	12	135	—	520	70	400	15	7,9	5/16	15(225)	13
BAN 12/15	150	110	120	90	12	160	—	520	70	400	15	12,7	1/2	15(225)	15
BAN 3G 2,5 *	150	110	120	90	12	135	65	520	70	400	18	—	—	—	18

\* Reel for cables 3 x 2,5 mm<sup>2</sup>

# Hose Reels for water

RMS003



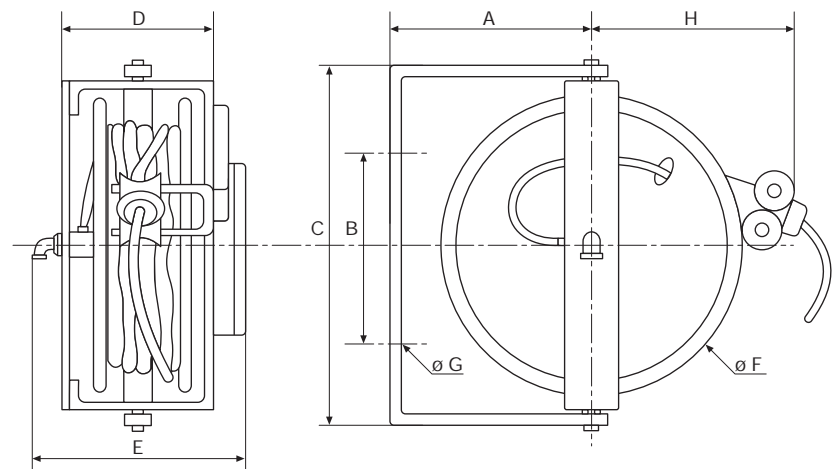
Cavotec RMS has developed this series of hose reels for water up to 60°C. All these reels are equipped with a reinforced hose for a pressure up to 3000 PSI (200 bars). If you do not need the orientation of 180°, other mounting brackets are available on request. If you need a reel with others characteristics, do not hesitate to contact Cavotec. Our sales and technical departments will offer the best solution for your installation.

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Rotating swivels are in stainless steel, brass or steel electroless nickel plated.
- The mounting bracket ensure an orientation on 180°
- Locking device for manual operation
- Epoxy-Polyester painted
- Option: anti-corrosion plating

## Fields of application

- Laboratories
- Industrial plants
- Food processing plants



Type	A	B	C	D	E	F	G	H	length	hose I.D.	hose I.D.	pressure	hose reinforced	weight
	mm	mm	mm	mm	mm	mm	mm	mm	m	mm	inch	bar/(psi)		kg
RM309	210	200	360	160	230	300	16	220	5	12,7	1/2	15(225)	Textile	12
RM409	235	300	460	165	245	400	16	280	10	12,7	1/2	15(225)	Textile	18
RM509	290	400	560	195	290	500	16	340	20	12,7	1/2	15(225)	Textile	30
RM4 HP	235	300	460	165	275	400	16	280	15	9,5	3/8	200(3000)	Metallic	18
RM4 LHP	235	300	460	215	325	400	16	280	25	9,5	3/8	200(3000)	Metallic	22

# Hose Reels for compressed air

RMS004



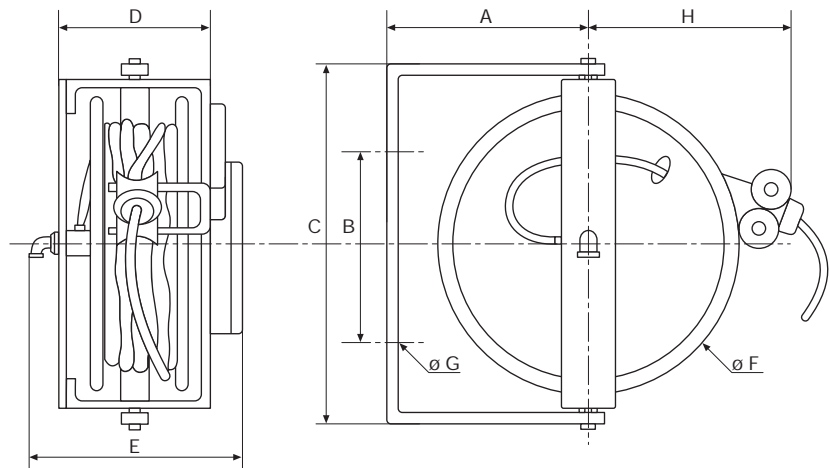
Cavotec RMS has developed this series of hose reels for compressed air. All these reels are equipped with a reinforced hose. If you do not need the orientation of 180°, other mounting brackets are available on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec. Our sales and technical departments will offer the best solution for your installation.

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Rotating swivels are in stainless steel-brass.
- The mounting bracket ensure an orientation on 180°
- Locking device for manual operation
- Epoxy-Polyester painted
- Option: anti-corrosion plating

## Fields of application

- For tooling, inflating, moving machines



Type	A	B	C	D	E	F	G	H	length	hose I.D.	hose I.D.	hose reinforced	pressure	weight
	mm	mm	mm	mm	mm	mm	mm	mm	m	mm	inch		bar/(psi)	kg
RM310	210	200	360	160	230	300	16	220	10	6,4	1/4	Metallic	15(225)	12
RM420	235	300	460	165	245	400	16	280	20	6,4	1/4	Metallic	15(225)	18
RM430	235	300	460	185	275	400	16	280	30	6,4	1/4	Metallic	15(225)	25
RM310T	210	200	360	160	230	300	16	220	10	6,4	1/4	Textile	15(225)	12
RM420T	235	300	460	165	245	400	16	280	20	6,4	1/4	Textile	15(225)	18
RM430T	235	300	460	185	275	400	16	280	30	6,4	1/4	Textile	15(225)	25
RM415T	235	300	460	165	245	400	16	280	15	9,5	3/8	Textile	15(225)	19
RM425T	235	300	460	185	275	400	16	280	25	9,5	3/8	Textile	15(225)	26
RM412T	235	300	460	165	245	400	16	280	12	12,7	1/2	Textile	15(225)	19
RM520T	290	400	560	195	290	500	16	340	20	12,7	1/2	Textile	15(225)	30
RM515T	290	400	560	195	290	500	16	340	15	15,9	5/8	Textile	15(225)	30
RM620T	340	500	660	240	390	600	16	400	20	15,9	5/8	Textile	15(225)	35
RM615T	340	500	660	240	410	600	16	400	15	19	3/4	Textile	15(225)	35

# Hose Reels for hydraulic fluid

RMS005



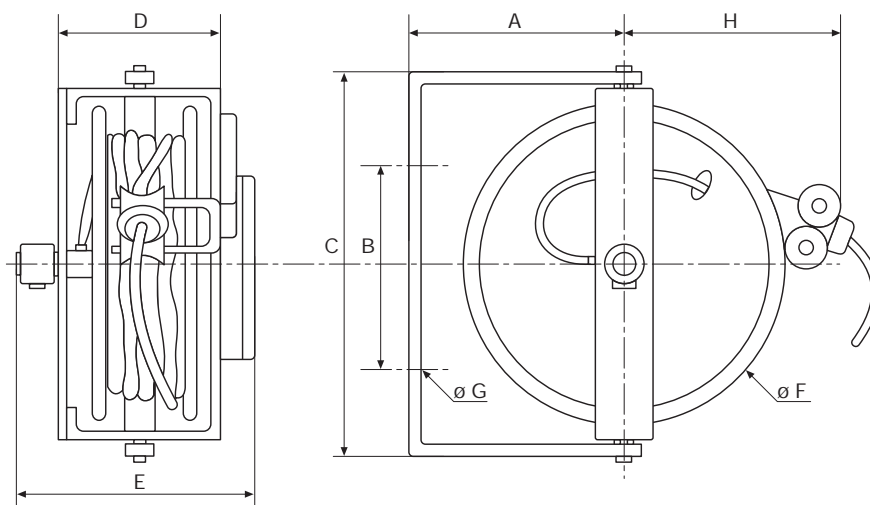
Cavotec RMS has developed this series of hose reels for hydraulic fluid. All these reels are equipped with a reinforced hose for a pressure up to 2250 PSI (150 bars). If you do not need the orientation of 180°, other mounting brackets are available on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec. Our sales and technical departments will offer the best solution for your installation.

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Rotating hydraulic swivels are electroless nickel plating
- The mounting bracket ensure an orientation on 180°
- Locking device for manual operation
- Epoxy-Polyester painted
- Option: anti-corrosion plating

## Fields of application

- For hydraulic fluid under pressure
- Access platform vehicles



Type	A	B	C	D	E	F	G	H	length	hose I.D.	hose I.D.	pressure	hose reinforced	weight
	mm	mm	mm	mm	mm	mm	mm	mm	m	mm	inch	bar/(psi)		kg
RM4 FH	235	300	460	165	275	400	16	280	15	7,9	5/16	150(2250)	Metallic	24
RM4 LFH	235	300	460	215	325	400	16	280	25	7,9	5/16	150(2250)	Metallic	27

# Twin Hose Reels for oxy-acetylen

RMS006



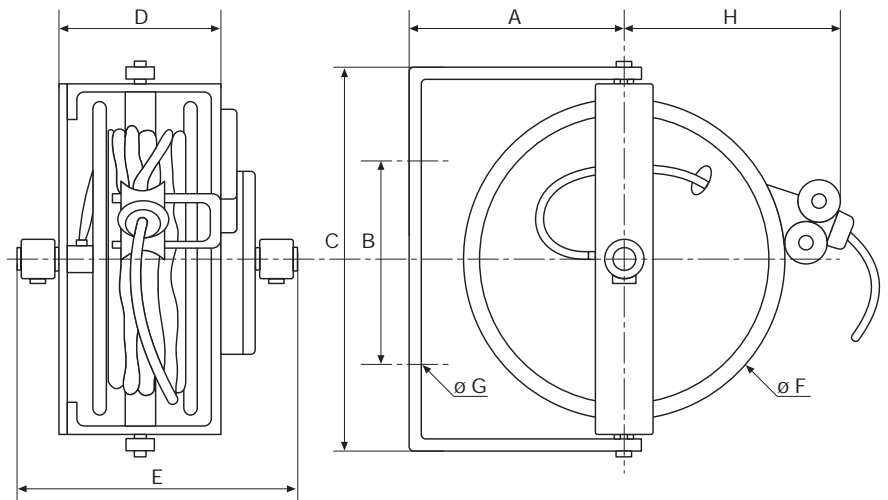
Cavotec RMS has developed this series of twin hose reels. All these reels are equipped with twin hose 10x17mm as standard but other cable can be used on request. If you do not need the orientation of 180°, other mounting brackets are available on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec

## Fields of application

- Garage
- Welding
- Workshop

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Two swivels
- The mounting bracket ensure an orientation on 180° (OR series) or fixed bracket (F series)
- Locking device for manual operation
- Epoxy polyester painted
- Option: anti corrosion plating



Type	A	B	C	D	E	F	G	H	length	ID/OD	pressure	hose reinforced	weight
	mm	mm	mm	mm	mm	mm	mm	mm	m	mm	bar/(psi)		kg
RM4 DE	235	300	460	165	315	400	16	280	10	10x17	10 (150)	Textile	24
RM5 DE	290	400	560	195	345	500	16	340	20	10x17	10 (150)	Textile	30

# Cable Reels for earthing

RMS007



Cavotec RMS has developed a series of cable reels for earthing. All these reels are equipped with a HO7VK Green/ Yellow cable and an alligator clip.

If you do not need the orientation of 180°, other mounting brackets are available on request.

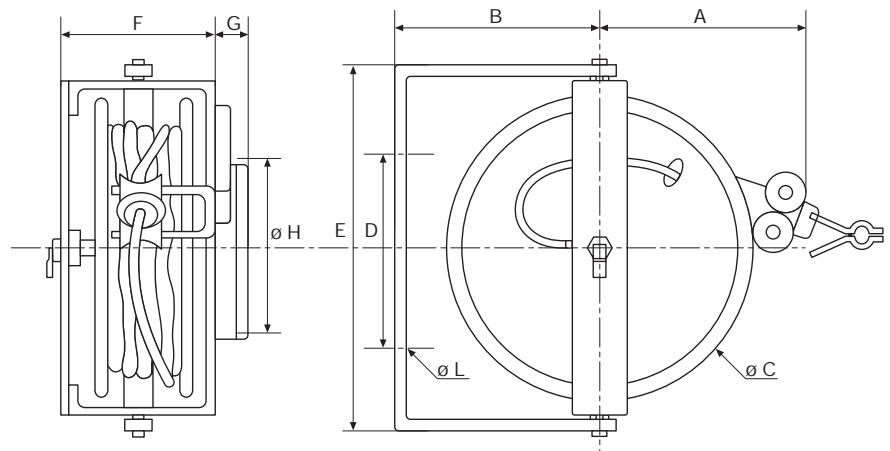
If you need a reel with other characteristics, do not hesitate to contact Cavotec. Our sales and technical departments will offer the best solution for your installation.

## Fields of application

- Ensure equipotential link
- Protection against electrostatic loads
- Tanker vehicles, Chemical tanks

## Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Slipping assembly: 1 ring/brush
- Cable HO7VK yellow/green equipped with crocodile clips
- The mounting bracket ensure an orientation on 180°
- Locking device for manual operation
- Epoxy-Polyester painted
- Option: anti-corrosion plating
- Ex-proof on request



	A	B	C	D	E	F	G	H	L	1x6mm <sup>2</sup>	1x10mm <sup>2</sup>	1x16mm <sup>2</sup>	1x25mm <sup>2</sup>	1x35mm <sup>2</sup>	1x50mm <sup>2</sup>
	mm	mm	mm	mm	mm	mm	mm	mm	mm	length m	length m	length m	length m	length m	length m
RM3 MT	220	210	300	200	360	140	30	200	16	15	15	15	15	15	—
RM3 DMT2	220	210	300	200	360	160	40	200	16	25	25	25	—	—	—
RM3 DMT3	220	210	300	200	360	160	40	200	16	30/40	30	30	—	—	—
RM4 MT	280	240	400	300	455	165	50	250	16	—	—	—	25	25	20
RM4 DMT2	280	240	400	300	455	180	50	250	16	—	—	40	35	—	—

# Cable Reels

## RM series

RMS008



RMS009

Cavotec RMS has developed this series of cable reels. All these reels are equipped with HO7RNF cable as standard but other cable can be used on request. If you do not need the orientation of 180°, other mounting brackets are available on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec

### Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Slipping assemblies
- The mounting bracket ensure an orientation on 180° (OR series) or fixed braket (F series)
- Locking device for manual operation
- Epoxy polyester painted
- Option : anti corrosion plating

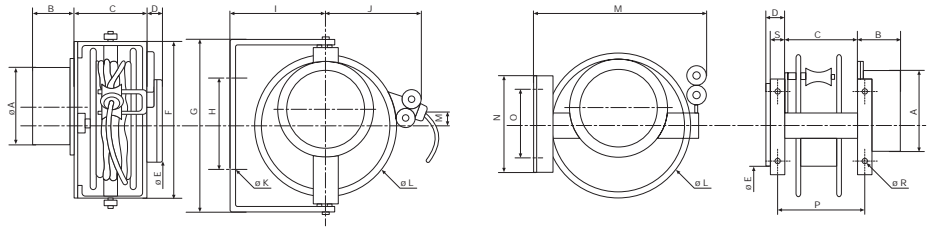
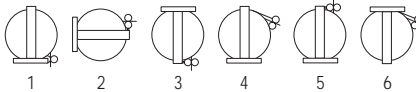
### Fields of application

- Moving cranes
- Tooling
- Workshop

### Orientable braket



### Fix braket



Type	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
RM3	140	40	200	340	360	200	210	220	16	300	390	200	150	168	10	30
RM4	165	50	250	430	455	300	240	280	16	400	480	250	200	210	12	40
RM4 D2	185	50	250	430	455	300	240	280	16	400	480	250	200	230	12	40
RM5	195	50	250	550	580	400	285	340	20	500	580	300	250	260	18	50
RM5 D3	195	105	250	550	580	400	285	340	20	500	580	300	250	260	12	50

### Slipping assembly housing dimensions

Type	2B+T		3B+T		4B+T		6B+T		11B+T		18B+T		26B+T	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
25 Amp.	—	—	—	—	—	—	200	175	200	285	250	210	250	350
40 Amp.	170	65	170	85	170	115	200	175	200	285	—	—	—	—
100 Amp.	200	90	200	110	200	155	—	—	—	—	—	—	—	—
150 Amp.	250	155	250	210	250	210	—	—	—	—	—	—	—	—

### Reeling length

Type	3G1.5	3G2.5	3G4	3G6	3G10	3G16	4G1.5	4G2.5	4G4	4G6	4G10	4G16	5G1.5	5G2.5	5G4	5G6	5G10	5G16	7G1.5	7G2.5	12G1.5	12G2.5	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Amp.	16	24	32	40	50	64	16	24	32	40	50	64	16	24	32	40	50	64	12	16	9	12	
RM3	14	14	10	7	—	—	14	13	7	6	—	—	13	9	6	—	—	—	6	—	—	—	
RM4 z	20	18	16	12	—	—	20	18	15	—	—	—	18	14	—	—	—	—	13	—	—	—	
RM4	25	25	22	20	10	8	25	25	22	16	10	—	25	22	16	10	—	—	20	15	10	8	
RM4 D2	35	30	25	—	—	—	30	30	25	—	—	—	30	25	—	—	—	—	—	—	—	—	
RM5	—	—	30	30	22	15	—	—	30	25	15	12	—	30	25	20	12	8	25	22	20	15	
RM5 D2	40	40	35	—	25	—	40	40	35	30	20	15	40	40	—	—	—	—	30	—	—	—	
RM5 D3	50	50	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Cable reels D1 or D2 are for manual operations only.



# Cable Reels

## MC series



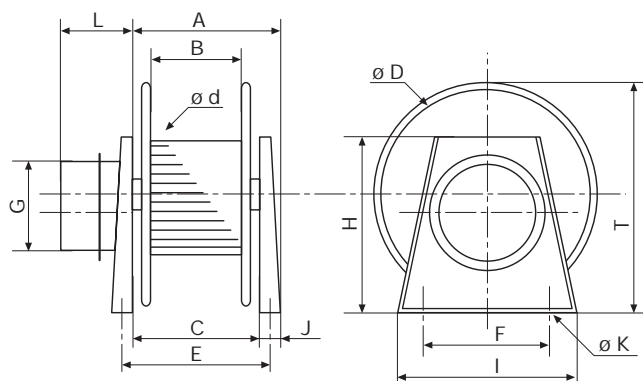
Cavotec RMS has developed this series of cable reels. All these reels are equipped with HO7RNF cable as standard but other cable can be used on request. Three mounting positions are available, other mounting brackets are available on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec.

### Characteristics

- Robustly manufactured in steel
- Drum mounted on two sealed ball bearings
- Slipping assemblies
- The mounting bracket 3 positions
- Locking device for manual operation
- Epoxy polyester painted
- Option: anti corrosion plating

### Fields of application

- Moving cranes
- Tooling
- Workshop
- Trucks



Type	D	d	B	E	F	H	I	J	K	A	C	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
RM4 MC	400	200	110	200	250	400	400	40	16	210	155	430
RM5 MC	500	250	210	330	250	400	400	40	16	325	282	530
RM6 MC	600	250	210	340	350	500	500	50	16	335	282	630
RM6 MCD	600	250	210	345	350	500	500	50	16	400	288	670

### Slipping housing dimensions Power/control

Type	2B+T		3B+T		4B+T		6B+T		11B+T		18B+T		26B+T	
	G	L	G	L	G	L	G	L	G	L	G	L	G	L
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
25 Amp.	—	—	—	—	—	—	200	175	200	280	250	210	250	320
40 Amp.	170	65	170	85	170	115	—	—	—	—	—	—	—	—
100 Amp.	200	90	200	110	200	155	—	—	—	—	—	—	—	—
150 Amp.	250	155	250	210	250	260	—	—	—	—	—	—	—	—

### Reeling length with HO7RNF cables (other cables, please contact us)

Type	3G2.5	3G4	3G6	3G10	3G16	3G25	3G35	4G2.5	4G4	4G6	4G10	4G16	4G25	4G35	5G1.5	5G2.5	5G4	5G6	5G10	5G16	5G25	7G1.5
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Amp.	24	32	40	50	64	95	120	24	32	40	50	64	95	120	16	24	32	40	50	64	95	12
RM4 MC	25	25	20	16	10	—	—	25	20	16	10	—	—	—	25	20	16	16	—	—	—	20
RM5 MC	30	30	25	25	25	18	15	30	25	25	25	18	15	10	30	25	25	25	18	18	15	25
RM6 MC	—	—	30	30	30	28	25	—	30	30	30	28	25	20	—	30	30	30	28	28	25	30
RM6 MCD	60	60	50	40	—	—	—	60	50	45	40	—	—	—	60	50	45	40	—	—	—	60

Type	7G2.5	12G1.5	12G2.5	19G1.5	19G2.5	27G1.5	27G2.5
	m	m	m	m	m	m	m
Amp.	16	9	12	7	10	5	8
RM4 MC	16	16	10	10	—	—	—
RM5 MC	25	25	25	25	18	18	15
RM6 MC	30	30	30	30	28	28	25
RM6 MCD	45	45	40	40	—	—	—

# Cable Reels for storage



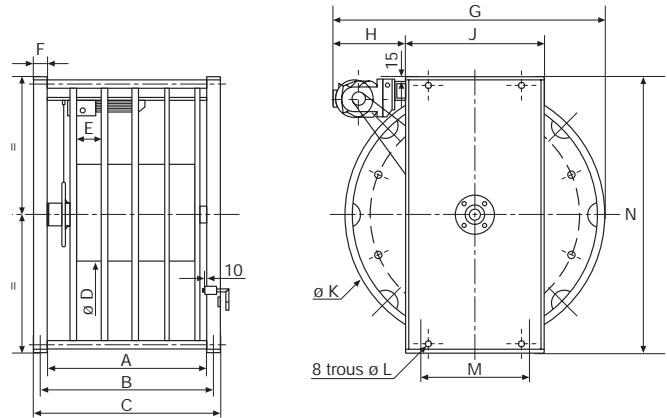
Cavotec RMS has developed this series of cable reels. All these reels are without cable as standard but cable and connectors can be used on request. If you need a reel with other characteristics, do not hesitate to contact Cavotec.

## Fields of application

- Trucks & Trailers for moving power supply units

## Characteristics

- Robustly manufactured in steel
- Four to five drums mounted on sealed ball bearings
- No slipping assemblies
- Motor 230-400 V 50 Hz-0,125 kW
- Locking device for the transportation
- Epoxy polyester painted
- Option: anti corrosion plating



Type	A	B	C	D	E	F	G	H	J	K	L	M	N	weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
MJ 500M	580	630	660	200	110	40	705	255	300	500	12	200	600	90
MJ 600M	560	610	640	250	105	40	755	255	400	600	14	300	700	100
MJ 800M/90	500	570	620	350	90	60	905	255	500	800	16	400	890	170
MJ800M/140	700	770	820	350	140	60	905	255	500	800	16	400	890	175

## Reeling length for H07RNF cable

Type	1x35 mm <sup>2</sup>	1x50 mm <sup>2</sup>	1x70 mm <sup>2</sup>	1x95 mm <sup>2</sup>	1x120 mm <sup>2</sup>	1x150 mm <sup>2</sup>	1x185 mm <sup>2</sup>	1x240 mm <sup>2</sup>
	m	m	m	m	m	m	m	m
MJ 500M	30	30	20	20	—	—	—	—
MJ 600M	40	40	30	30	—	—	—	—
MJ 800M/90	—	—	—	—	30	30	20	20
MJ800M/140	—	—	—	—	40	40	30	30