

# Questionnaire of VAHLE Cable Reels



1. For what type of moving equipment is the reel? \_\_\_\_\_  
 A rough sketch based on the typical applications shown on page 5 of this catalog is extremely valuable.

2. Reel installation height h = \_\_\_\_\_ m

3. Travel distance of equipment \_\_\_\_\_ m

4. Cable payout from center from one end

5. What is the max. cable length on the reel? l = \_\_\_\_\_ m  
 Midway feed-point cuts the length of cable needed in half.

6. Type of Cable (number of conductors x wire size) \_\_\_\_\_ x \_\_\_\_\_ mm<sup>2</sup>

weight \_\_\_\_\_ kg/m

outside dia. \_\_\_\_\_ mm

7. Electrical load \_\_\_\_\_ kW

or amperes at \_\_\_\_\_ volts \_\_\_\_\_ A

8. Duty Cycle (time on) of full load? \_\_\_\_\_ %

9. No. of Collector Rings required? \_\_\_\_\_ pcs  
 (our slipping assemblies always include one ground)

10. Typ of application? (see page 5) No.

11. How many movements per hour? \_\_\_\_\_ times

12. Operating hours per day? \_\_\_\_\_ hours

13. Maximum travel/lift speed? \_\_\_\_\_ m/min.

14. Acceleration 0 to full in \_\_\_\_\_ sec.

or acceleration rate \_\_\_\_\_ m/sec.<sup>2</sup>

**Other Data:** \_\_\_\_\_

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**Please provide drawings in case of non-straight cable payout.**



# Questionnaire of VAHLE Cable Reels

To our nearest local VAHLE-agency:

VAHLE Electrification Systems  
 1167 Brittmoore  
 Houston, TX 77043

Tel. 713.465.9796 800.725.9796  
 Fax. 713.465.1851  
 info@vahleinc.com  
 www.vahleinc.com

Customer: \_\_\_\_\_

Address: \_\_\_\_\_

Attention of: \_\_\_\_\_

Date: \_\_\_\_\_

Motor data	Crane 1			Crane 2			Crane 3		
	Power kW/HP	Current Amps	Duty factor %	Power kW/HP	Current Amps	Duty factor %	Power kW/HP	Current Amps	Duty factor %
Hoist motor									
Auxiliary hoist									
Travel motor - main-trolley									
Travel motor - aux.-trolley									
Main travel									
Slewing									
Luffing									

Mark with \* any motor that may be in simultaneous operation.

Additional Comments: \_\_\_\_\_

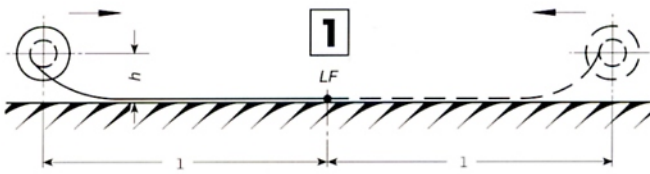
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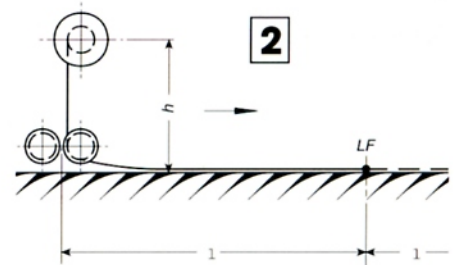
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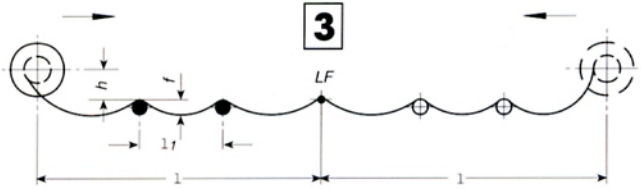


**retrieve**

Reel is mounted on the moving equipment, winds and pays-out cable into a tray or other surface. One- or two-way payout. The application becomes a modified retrieve lift when reel mounts more than 1.5 m above ground and uses double sheave guide.

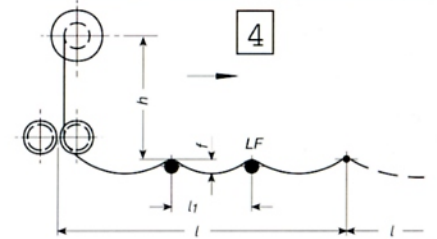


**retrieve lift**

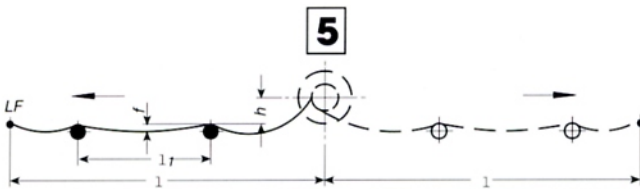


**retrieve**

Much the same as above, however cable recovery from round support brackets or rollers at regular intervals;  $l_i$  for brackets max. 1 m, for rollers 1 up to 3 m.

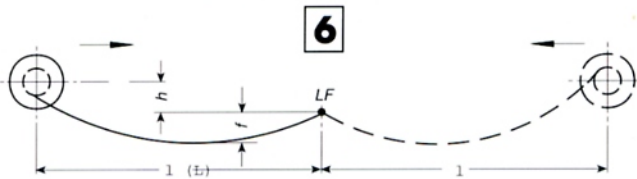


**retrieve lift**



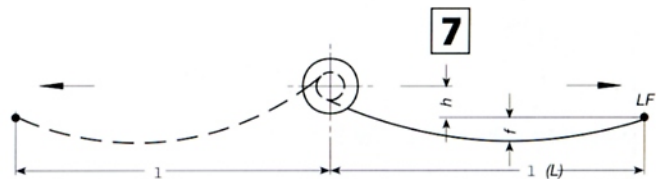
**drag**

In this case the reel is stationary. Cable is dragged over round supports or rollers to and from the reel, in one or two directions ( $l_i \leq 3$  m).

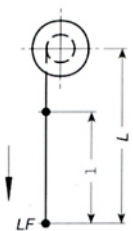


**horizontal stretch with reel on moving equipment**

Cable is suspended horizontally in the air, supported only at both ends, allowing a standard sag ( $f$ ) in relation to  $l$  or  $L$  whatever is longer.

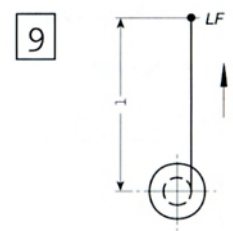


**horizontal stretch with stationary reel**



**vertical lift**

Reel is mounted above where cable is hoisted and paid-out vertically. Total cable length and weight plus any extra load (pushbutton station, etc.) must be considered. The latter does not apply to case 9 where the reel is located below rather than above.



**vertical retrieve**

**Legend to Drawings:**

- $l$  = operational length of cable
- $l_i$  = support intervals
- $L$  = max. length between reel and end of cable
- LF = feed point or connection to moving member
- $h$  = height of reel above recovery surface
- $f$  = cable sag

For applications 2, 4, 5 and reels beyond the listed capacities, please contact your local VAHLE representative or the factory.

Use the reel data form on pages 25/26 of this catalog.

Having all the facts will ensure determining of the best reel for your specific requirement.