

# Cable Reel Specification Check List

To make sure you get the right reel, please collect your requirements using the data sheet below and on the next page. All page references refer to this catalog (Spring Driven Cable Reels CAT1000). If you need help, contact us at 800-521-4888 (or 402-339-9300). Fax the completed sheets to 800-780-8329 (402-339-9627) or e-mail them to sales.us@conductix.com to obtain a quotation. See back cover of this catalog for other sales offices.

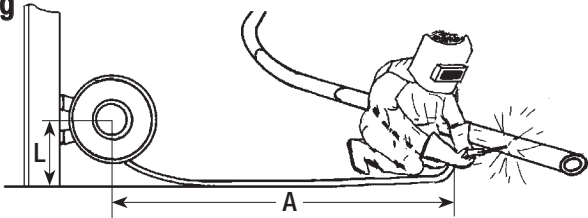
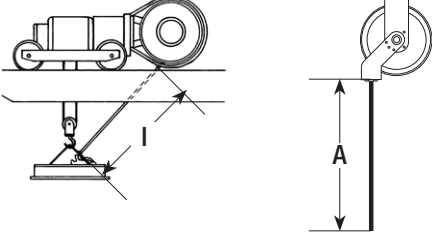
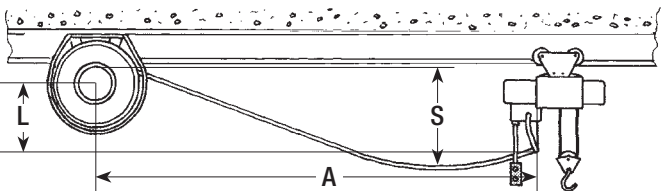
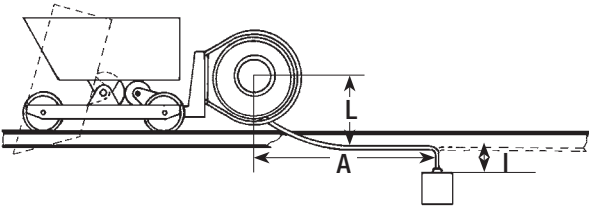
For definition of terms, see "Cable Reel Components", Appendix I, Page 37

Appendix and page numbers refer to the Conductix Cable Reel Catalog.

Request Date _____	Sales Person _____
Company _____	Name _____
_____	Title _____
_____	Phone _____
_____	Fax _____
Company Type _____	E-mail _____

## APPLICATION

1. How will the reel(s) be used? (Check One)

<input type="checkbox"/> <b>Drag</b>  <p>The reel needs to "drag" the cable through supports or along the ground horizontally. The reel is usually stationary. Cable can be pulled out by hand or by machine.  <b>Note: This application is the hardest on cable life.</b></p>	<input type="checkbox"/> <b>Lift</b>  <p>The reel needs to "lift" the cable vertically. The reel is usually stationary. Cable is pulled out of the reel by machine or by hand (as with an overhead light source or a pendant station.)</p>
<input type="checkbox"/> <b>Stretch</b>  <p>The cable is "stretched" horizontally and is unsupported. The reel may be stationary mounted or mounted onto moving equipment. Cable is pulled out by machine. An extra 6% - 10% of cable beyond active travel is required for cable sag.</p>	<input type="checkbox"/> <b>Retrieve</b>  <p>The reel needs to pickup ("retrieve") the cable. The reel is mounted on moving equipment. Cable is pulled out by machine.</p>

2. **Other application information:** Describe the application or attach a sketch. For example, will the reel need to lift a cable-end accessory? Will the cable be run through rollers or sheaves? Will the cable pay out at an angle?

## ENVIRONMENTAL DATA

Describe the environment in which the cable reel will be installed and used.

1.  Indoors  Outdoors  Dusty  Snow  Ice

Electrical enclosure sealing required (if known)  NEMA \_\_\_\_\_ or  IP \_\_\_\_\_

2. Ambient temperature Min \_\_\_\_\_ Max \_\_\_\_\_  °F  °C [To convert Centigrade to Fahrenheit, refer to Appendix V, page 41 ]

3. Will there be corrosive materials present?  Yes  No [salt, chlorine, steam, acids, etc.]

If yes, describe the type of corrosive \_\_\_\_\_

4. Is this a hazardous location?  Yes  No If yes, state required NEC Class \_\_\_\_\_ Division \_\_\_\_\_ Group \_\_\_\_\_

5. Other considerations (vibration, shock loads, etc) : \_\_\_\_\_

Fax to: 800-334-3283

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## MECHANICAL DATA

1. Duty Cycle \_\_\_\_\_ cycles per \_\_\_\_\_ [How often will the reel payout and retract?]

**Note: For very high cycle rates, and/or harsh environments, and/or cables that must be routed through sheaves or rollers, premium cable may be required. Please refer to Appendix VII, page 43 and consult Conductix-Wampfler.**

2. If reel will power moving equipment, what is the speed of the equipment? \_\_\_\_\_  ft/min  m/min

3. How will the cable be paid out?  Parallel with spool  At an angle from the spool

**Note:** If the cable payout is more than 15 degrees from parallel with the spool, a swivel base or swing-mount will be required. Refer to pages 13, 24, and 25 or contact Conductix-Wampfler for recommendations.

4. Will cable pass through/along devices such as rollers or sheaves that might affect cable retraction?  Yes  No

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## ELECTRICAL DATA

1. Ampacity Required \_\_\_\_\_ [The amount of amperage the reel/cable needs to handle per conductor.]

- To convert motor horsepower-to-amperage - see Appendix II, page 38
- To power an electromagnet, please consult Conductix-Wampfler

2. Number of Conductors Required (with ground) \_\_\_\_\_ [Note: Single phase needs three conductors; three-phase needs four.]

3. Wire Gauge/Size Required \_\_\_\_\_  AWG  Metric [To handle the required amperage per conductor.]

To help determine required wire gauge, See Appendix IV, page 40. For metric conversion, see Appendix V, page 41.

4. Cable Type Needed \_\_\_\_\_

For further information, see Cable Types - Appendix III, page 39

5. Operating Voltage \_\_\_\_\_ (volts)  AC  DC

6. Operating Frequency \_\_\_\_\_ Hz (Note: USA is 60 Hz)

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**CABLE LENGTH NEEDED** Sum the cable length you need using the table below. See applications, page 4

	Lift ↓	Drag ↓	Stretch ↓	Retrieve ↓	
A = Active length	_____	_____	_____	_____	The difference between minimum and maximum operating payout.
I = Inactive length	_____	_____	_____	_____	The cable that will stay <u>outside</u> the reel, even at minimum payout.
S = Sag allowance	_____	_____	_____	_____	Add 10% to the active + inactive length to accommodate cable sag.
L = Lift height	_____	_____	_____	_____	The distance from the cable lay up to the reel location.
H = Hook-up length	_____	_____	_____	_____	The amount needed to make connections at the "free end" of the cable.
<b>TOTAL</b>	_____	_____	_____	_____	Sum of all lengths listed above.

**Feeder Cable Length (if needed)** \_\_\_\_\_ This cable "feeds" the non-rotating part of the reel. A feeder cable is standard on some reels, as noted in the catalog; customer-supplied for other reels (usually the larger models).