

Cable Reel Specification Check List

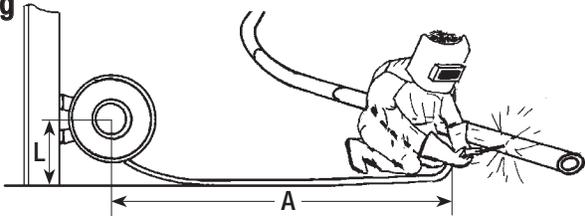
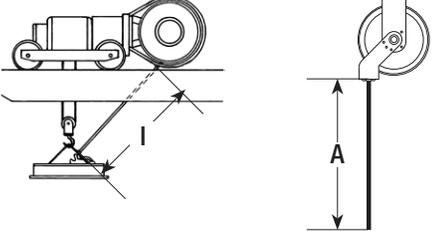
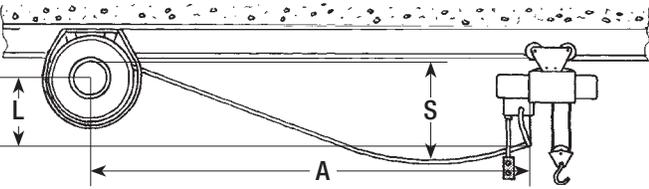
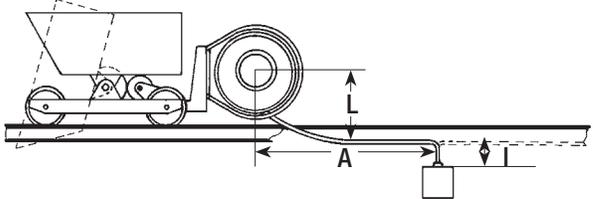


To make sure you get the right reel, please collect your requirements using the data sheet below and on the next page. If you need help, contact us at 1.800.ERICSON (1.800.374.2766). Fax the completed sheets to 440.951.1867 or e-mail them to sales@ericson.com to obtain a quotation.

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"/> Drag  <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. Note: This application is the hardest on cable life.</p>	<input type="checkbox"/> Lift  <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"/> Stretch  <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"/> Retrieve  <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

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) : _____

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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.

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.

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

ELECTRICAL DATA

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

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.]

4. Cable Type Needed _____

5. Operating Voltage _____ (volts) AC DC

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

CABLE LENGTH NEEDED Sum the cable length you need using the table below.

	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.
TOTAL	_____	_____	_____	_____	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).