

Design Your Own Cable Reel



Ericson offers a wide variety of Cable Reel options. Please use the form below to specify a reel to meet your application. Contact us at 1.800.ERICSON (1.800.374.2766) for assistance. Please email completed form to sales@ericson.com for a quotation.

Step 1: Cord Reel Application

How will the Cord Reel be used? (Check one below.)

<p>DRAG</p> <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.</p> <p>Note: This application is the hardest on cable life.</p>	<p>LIFT</p> <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>
<p>STRETCH</p> <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 a machine. An extra 6% to 10% of cable beyond active travel is required for cable sag.</p>	<p>RETRIEVE</p> <p>The reel needs to pick up ("retrieve") the cable. The reel is mounted on moving equipment. Cable is pulled out by machine.</p>

Step 2: Electrical Data

Ampacity

Operating Voltage (volts)

AC DC

Operating Frequency (U.S. is 60 Hz)

Wire Gauge/Size Required

Number of Conductors Required (including ground)

AWG Metric

Cable Type Needed

Cable Length (see calculator below if needed)

Step 3: Cable Length Needed

Lift Drag Stretch Retrieve

A = Active Length (The difference between minimum and maximum operating payout)

I= Inactive Length (The cable that will stay outside 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 amt. 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).

Step 4: Environmental Data

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

Installed Location

Indoor Outdoor Dusty Snow Ice Corrosive Hazardous Location Specify, _____

Electrical enclosure rating required (if known)

NEMA _____ IP _____

Ambient Temperature (please note F or C)

Min. Max. °F °C

Will there be corrosive materials present?

Yes No If yes, what type (salt, chlorine, steam, acids, etc.):

Is this a hazardous location?

Yes No If yes, state required NEC Class _____ Division _____ Group _____

Other Considerations (vibration, shock, loads, etc.)

Step 5: Mechanical Data

Duty Cycle (How often will the reel payout and retract)*

_____ cycles per (day/hour/etc.) _____

If reel will power moving equipment, what is the speed of the moving equipment?

ft/min m/min

How will the cable be paid out?*

Parallel with Spool At Angle from the Spool

Will cable pass through/along devices (rollers or sheaves) that might affect cable retraction?

Yes No

*For very high cycle rates, and/or harsh environments, and/or cables that must be routed through sheaves or rollers, **a premium cable jacket may be required**

**If the cable payout is more than 15 degrees from parallel with the spool, a swivel base or swing-mount will be required



4323 Hamann Parkway
Willoughby, OH 44094
info@ericson.com
ericson.com
1.800.ERICSON
L1000920A