

Cable Reel Specification Check List

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).