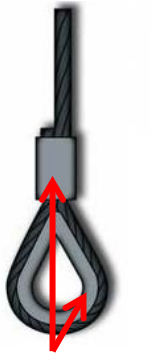
Winch 50 - Cheat Sheet

DMX channel	Function	DMX channel	Function
1	Position rough (Hi of a 16 bit DMX channel)	4	Set between 50% and 55% to enable motor
2	Position fine (Lo of a 16 bit DMX channel)	5	Set soft TOP limit (~3 s delay)
3	Set the maximum speed	6	Set soft BOTTOM limit (~3 s delay)

Intact wire

Broken wire



Inspection points

Before each use

- Inspect the entire length of the **wire rope** for bends, damage, wear, cut cord, corrosion, and abuse.
- Inspect the **wire ferrule crimp** and **thimble** for damage, wear, corrosion, or abuse.
- Check that the load is safely attached and weighs max 50 kg.
- Check all safety devices (slack detection, limit switches, and emergency stop)
- Make sure that the operator has visual confirmation of all possible movements of the winch at all time.

Warning! Do not use the winch if any damage or error is found!

How to get started

wahlberg
MOTION DESIGN

1. Place / Rig the winch in something high with minimum 2-3 meter clearance below.
2. Put on counterweight on the winch, minimum 3.5 kg (7.7 lb).
3. Connect the winch to 230VAC – **The winch turns on and the display shows the start-up message.**
4. Connect emergency switch (if enabled) – make sure the error LED no longer is glowing red.
5. Set the DMX start address to 1 and apply DMX from a lighting desk, preferably with manual faders.
   Make sure that the 6 channels are patched from DMX channel 1 to 6. Pull all channels on to 0%
6. Set DMX channel 4 to 51-54% - **The motor is now enabled**
7. Set DMX channel 5 to 30% - **After 3s the winch moves towards its hard TOP limit. To stop the winch, set DMX channel 5 to 0%. Stop when desired or at the hard TOP limit. The reached position is now the soft TOP limit.**
8. Set DMX channel 6 to 50% - **The winch moves towards its hard BOTTOM limit. To stop the winch, set DMX channel 6 to 0%. Stop when desired or at the hard BOTTOM limit. The reached position is the soft BOTTOM limit, and hence the travel range has now been set: from the soft TOP limit to the soft BOTTOM limit.**
9. Set DMX channel 1 to 100% and DMX channel 3 to 20% - **The winch moves with 20% speed to the 100% position.**
10. Set DMX channel 1 to 90% and DMX channel 3 to 50% - **The winch moves with 50% speed to the 90% position.**

LED indicators:

DMX LED	
Glows constant:	DMX connection is correct.
Flash:	DMX signal is missing.
Error LED	
Off:	No errors on the winch
On:	Error detected. Refer to error code on display and manual to resolve issue.

Emergency stop switch:

Pin out

Pin 1 = GND	Input
Pin 2 = NC	
Pin 3 = NC	
Pin 4 = 12-15VDC	Input

The Emergency stop switch is connected to the male 4 pin XLR connector. Pin 1 and 4 should be powered with 12-15VDC to enable running the motor.

Tech specs (winch 50):

Lifting speed	Variable 9.1-45 cm/s (3.6-17.7 in/s)
Minimum load	3.5 kg (7.7 lb)
Maximum load	50.0 kg (110.2 lb)