

# *Drive Force*

## Push-Pull Control Cables



Control cables are used for a variety of purposes to operate the engine throttle, with gear change and working hydraulic clutches for haulers to name a few.

We offer two main cables: the 330X Prime cables and the 430 Series control cables.

### 330X Prime Cables (33C)

The most common cables used, these have 3" of travel and a 3/16" UNF thread. The prime cables feature a splined core which allows a close fit with the inner liner of the cable but minimises contact. This reduces friction and results in easier movement and minimises lost motion. The prime cable replaces both the standard 330 red coat cable and Super 330X cables we used to offer with the benefits of the Super 330X cable but at a lower price.

### 430 Series Prime Cables (43C)

Popular on commercial boats, the 430 Series cables have the same 3" of travel as the 330X cables but are thicker and have a 1/4" UNF thread. These are rated to a higher load than the 330X Cables with a maximum torque of 380N for push and 800N for pull compared to the 178N for push and 222N for the pull of the 330X series cables.

### How to measure a replacement and identify a 330X or 430 series cable

Measuring a control cable for a replacement is relatively simple when compared to say a steering cable. You would need to measure the complete length of the cable from end to end. To identify a 330 or 430 series cable you would need to measure the threads at the ends of the cable with the 330 series cables measuring 3/16" (4.76mm) and the 430 series measuring 1/4" (6.35mm). With the 330 or 430 series cables the thread would be the same size either end of the cable.



### Control Cable Fittings

To install the cables, you will need fittings for the ends. Most engine controls will be supplied with fittings to suit either a 330 or 430 series cable, however, for the engine and gearboxes we have clevis ends, end pivots, ball joints and clamps to suit.

