



## Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146  
P: 440-232-9700 • F: 440-232-8266  
[www.youngregulator.com](http://www.youngregulator.com)

Submit BCW 2/2018

## BCW Bowden Casing and Wire

*Submittal - Cutting Instructions*

### 030-12 Control Wrench

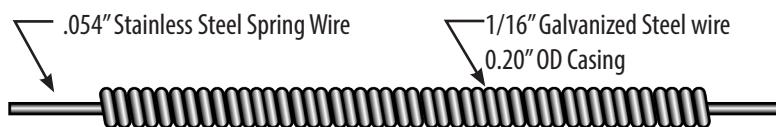
## Application and Design

BCW consists of .054" stainless steel control wire with a tensile strength of at least 200,000 lbs. that is encapsulated in 1/16" flexible galvanized spiral wire sheath. Stainless steel sheath is an option.

BCW can be ordered from the factory cut to length, but when distance between the damper and the location of the controller is uncertain, you can order it in bulk lengths and cut it in the field. Standard bulk length is 50'; but 100' lengths can be special ordered. Damper runs should not exceed 50'.

#### Important Installation Note:

**Longer runs create more friction between the inner wire and the casing. Runs should be secured at least every five feet (5 ft) and bend radii need to be very gentle and smooth.**



## Instructions to cut to length

The stainless steel inner wire of the BCW should be approximately 6" longer than the galvanized spiral steel outer casing to enable fastening the wire to the lever arm and to the controller. An extra 3" of wire are needed on each end of the casing.

It is difficult to cut the casing without cutting the wire, so pull out approximately 6" of the wire from one end. With a sharp offset diagonal cutting pliers, cut the other end of the BCW to length.

Push the extra length of inner wire in half way to expose 3" of wire on both sides of the length of casing.

On the controller, insert the inner wire into the hole in the wire stop (barrel nut) and tighten screw until wire bends. Secure the casing into the casing clamp.

On the damper, install casing coupler onto center hole on angle bracket with the keps nut. Push casing into casing coupler and tighten the thumbscrew to secure the casing to the bracket. Push wire through casing and insert it into wire stop on the lever arm and tighten the screw.



030-12 Control Wrench

QUANTITY	LENGTH	NOTES
PROJECT	LOCATION	
CONTRACTOR	DESIGN SPECIFIER	