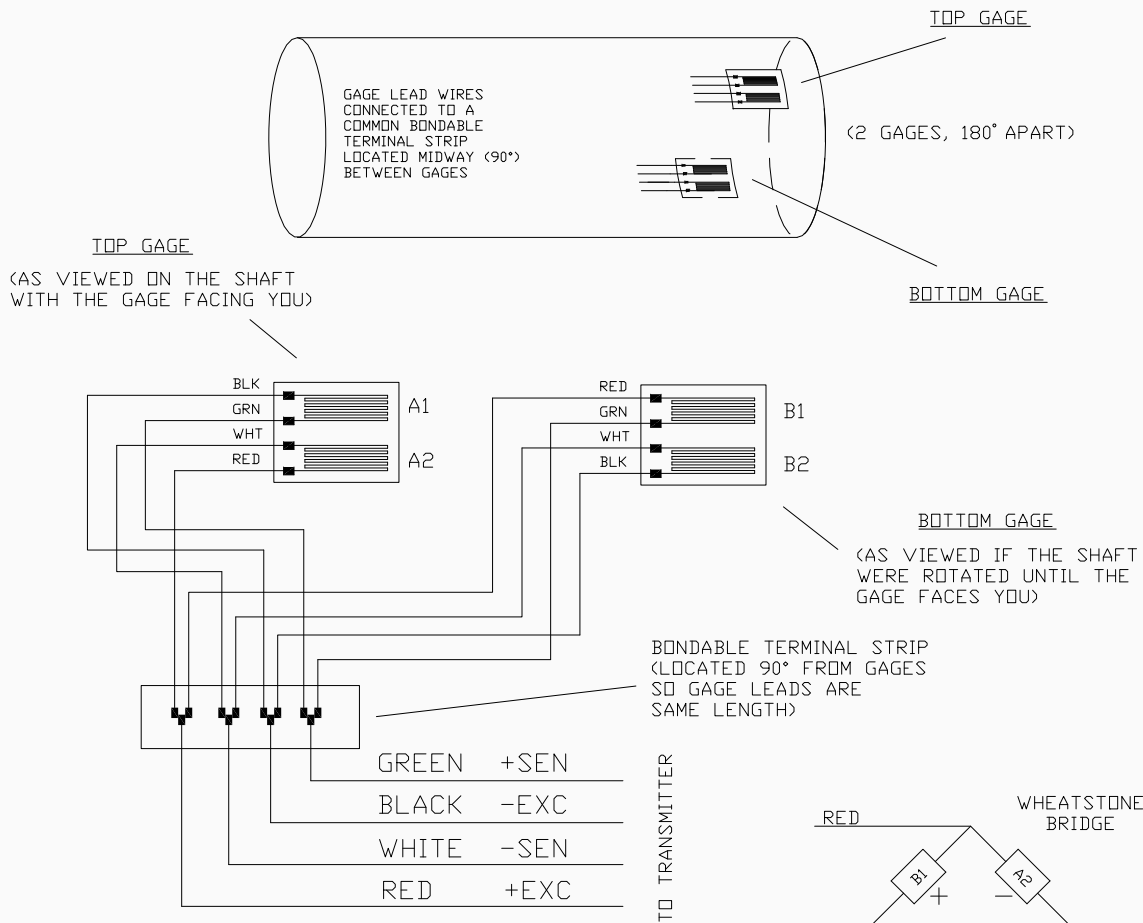


## For BENDING Measurement



STRAIN GAGE:  
VISHAY MEASUREMENTS GROUP  
RALEIGH, NC  
PHONE: 919-365-3800  
PART # EA-06-250MQ-350  
(2 REQUIRED)

### NOMINAL RESISTANCE VALUES

RED TO BLACK: 350 ohms  
WHITE TO GREEN: 350 ohms  
ALL OTHER TESTS: 262.5 ohms

REVISION: 2

**Leading Technology in Rotary Torque and Temperature Transmitters**

Strain due to bending on a tubular cross-section at distance from neutral axis =  $r$ :

$\epsilon$ : **Bending Strain**, units of microstrain (micro-inch per inch).

$M$ : **Moment**, units of inch-pounds.

$E$ : **Modulus of Elasticity**, units of pounds per square inch.

$r$ : **Outside diameter**, units of inches.

$r_i$ : **Inside Diameter**, units of inches.

$$\epsilon = \frac{M \cdot r}{E \frac{\pi}{4} (r^4 - r_i^4)}$$

