

## **Dimensions & Electrical Specification**

	Dimensions						
Part No.	O.D. (D)	Length (L)	Lead dia.	Lead Igth.	Material	Rod Perm. (μ)	Cross sect. Area (mm²)
43-016-31	4.00 ±0.15	20.00 ±1.00	0.80	25.40	F14	20	12.56
43-051-31	5.33 ±0.20	16.00 ±0.47	0.70	38.00	F14	11	22.30

Lead: Tin coated copper wire.

As with all rods the calculation of inductance is derived from experimental data. An approximate calculation is:

$$L = \frac{(A_r x N^2 x \mu_r)}{L_r x 10^{\circ}} x (2 - L_c / L_r)$$

where: L = Inductance (Henrys)

- A<sub>r</sub> = Cross-sectional Area of Rod (mm2)
- $L_{c}^{'}$  = Length of Coil  $L_{r}^{'}$  = Length of Rod
- $\mu_r$  = Rod permeability



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