

# Avtron Edgewound Resistors

## Type AER

- Low temperature coefficient elements for more stable resistance
- Edgewise helical design for efficient cooling ensures long life
- Massive, high temperature ceramic core resists shock and vibration



Two Avtron Edgewound Resistors with panel mount brackets



Three Avtron Edgewound Resistors with protective enclosure

- Withstands severe short-time overloads
- Reliable stainless steel elements, terminals, and hardware
- Industry standard size for quick replacement of other major brands

### Typical Applications include:

- Dynamic Braking
- Load Discharge
- Overhead Cranes
- Electric Lift Trucks
- Fire Pumps

# Avtron Edgewound Resistors

**Avtron Edgewound Resistors** are designed for medium current applications from 16 amps to 100 amps continuous with natural convection cooling. Rugged construction allows high overload ratings for intermittent duty applications.

These resistors are constructed from a continuous ribbon of stainless steel resistance alloy, helically wound on edge to form a rigid coil. The coil is fully supported by a high temperature threaded ceramic core which provides electrical insulation and ensures uniform spacing from turn-to-turn even under severe overload conditions. The resistor terminations are stainless steel to prevent corrosion and welded to each end for improved reliability. If intermediate taps are required, adjustable clamp-on terminals are also available. Avtron Edgewound Resistors can be supplied loose with threaded support rods, pre-assembled with brackets, or fully assembled in indoor or outdoor enclosures. This simplifies and speeds installation to save time and money.

To further improve functionality, these resistors can be provided with optional wiring and control systems. Contact your Avtron sales engineer for total support in selecting resistors, assemblies, and custom configurations for your application.

## Electrical Ratings

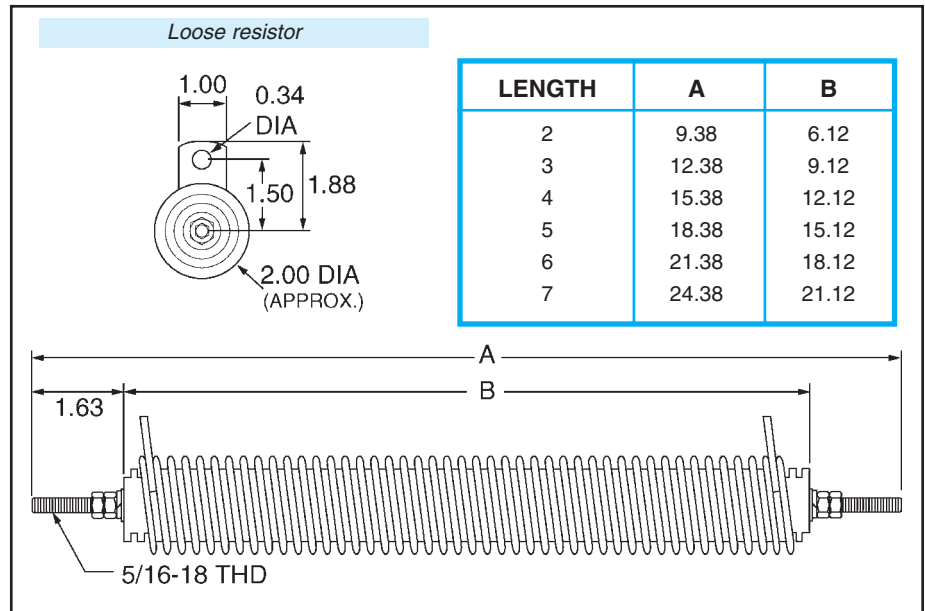
Continuous AMP Capacity @375°C Rise	Resistance in OHMS @ 25°C *					
	LENGTH 2	LENGTH 3	LENGTH 4	LENGTH 5	LENGTH 6	LENGTH 7
16	1.70	2.60	3.50	4.40	5.30	6.20
18	1.30	2.00	2.70	3.50	4.20	4.90
20	1.20	1.80	2.40	3.10	3.70	4.30
23	0.89	1.37	1.85	2.30	2.80	3.30
26	0.69	1.06	1.44	1.81	2.20	2.60
29	0.49	0.75	1.02	1.29	1.55	1.82
32	0.43	0.66	0.90	1.13	1.37	1.60
36	0.35	0.54	0.73	0.92	1.11	1.30
40	0.27	0.41	0.56	0.70	0.85	0.99
45	0.25	0.38	0.52	0.65	0.78	0.92
50	0.19	0.30	0.40	0.51	0.62	0.72
60	0.15	0.23	0.32	0.40	0.48	0.57
70	0.12	0.19	0.26	0.33	0.39	0.46
85	0.07	0.11	0.15	0.19	0.23	0.27
100	0.06	0.10	0.13	0.16	0.20	0.23

Avtron Part Number=AER(length)-(amps).

Example: Part Number AER5-60 is length 5, 60 amps, 0.40 ohms.

\* Non-standard ohmic values also available. Consult factory.

## Outline Drawing



Specifications subject to change without notice.

All dimensions are in inches.

Printed in U.S.A.

Bulletin 408

Rev. C



6255 HALLE DRIVE, CLEVELAND, OH, U.S.A. 44125 • (1) 216-573-7600 • FAX: (1) 216-573-5953

E-MAIL: resistors@avtron.com • HOME PAGE: www.avtron.com