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**OKAZAKI**  
MANUFACTURING COMPANY  
UK LIMITED

## Special Purpose Conductor Cable

**Single wire conductor cables typically used for high amperage/temperature conductor cable, coils for temperature transformer windings and outer sheath compatible to ultra high vacuum systems (UHV).**

Coil lengths vary by available material lengths from stock, or based upon supplier availability of materials to produce final product.

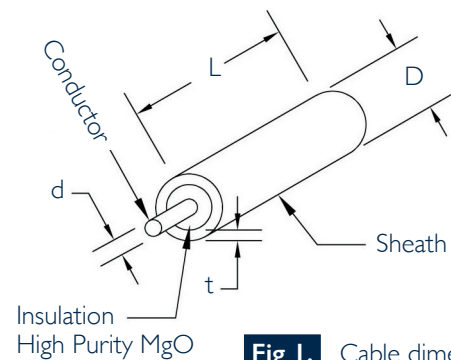
Please consult our ARI sales engineers for available coil length that are in stock, or that we can produce.

## Special Purpose Conductor Cable

### Features

- Single wire conductor cable.
- **Conductor:** Oxygen Free Copper
- **Insulation:** High Purity, Compacted MgO (Magnesium Oxide powder)
- **Sheath Material:** 316 Stainless Steel, others available as special order

### Outline Drawing



**Fig 1.** Cable dimensions

ARI Part Number	Cable O.D. (D)	Conductor Size (d)	Resistance ( $\pm 10\%$ )	Wall Thickness (t)	Insulation Thickness
066-1N-C(CU)18	0.66 inch O.D. $\pm 0.002$ inch	0.40 Inch O.D. $\pm 0.002$ inch	0.006 $\Omega$ /Ft @ 20°C	0.0052 Inch Nominal	0.0071 Inch Nominal
075-1N-C(CU)17	0.75 inch O.D. $\pm 0.002$ inch	0.045 Inch O.D. $\pm 0.002$ inch	0.005 $\Omega$ /Ft @ 20°C	0.0064 Inch Nominal	0.0086 Inch Nominal
098-1N-C(CU)15	0.98 inch O.D. $\pm 0.002$ inch	0.059 Inch O.D. $\pm 0.002$ inch	0.003 $\Omega$ /Ft @ 20°C	0.0075 Inch Nominal	0.010 Inch Nominal

### Typical Uses

- High amperage/temperature conductor cable.
- Coils for high temperature transformer windings.
- Outer sheath compatible to ultra high vacuum systems (UHV)

### Specification

- **Dielectric Ratings:** 100 Volts for each 0.001 inch thickness of insulation.
- **Insulation Resistance Value:** Minimum of 1000 Meg  $\Omega$  @ 500VDC
- **Suggested maximum temperature:** 1292°F / 700°C
- **Material Certs:** Available as requested

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We design both standard & Customer solutions to assist you in your temperature sensing/heating/process signal needs.

MI cable also offers unique solutions in process signal cables through high temperature high vacuum areas. Our compacted mineral insulated cables allow for unique solutions in today's high tech test and production environments.