



Silicone Insulated Cables

We've been making silicone insulated cables for over 30 years

Introduction

Silicone Engineering was one of the first companies in the UK to manufacture silicone rubber insulated cables. With extensive 'in-house' compounding facilities, allied to a unique technical experience, we are able to produce custom-made formulations to meet the most exacting requirements.

In addition to the standard solid and flexible conductors we have an extensive range of ultra-flexible silicone rubber insulated conductors, designed for optimum flexibility to ensure a lasting effectiveness in many switch type applications i.e. relays, mercury switches and probe leads.

Our flame-retardant high tension cable is Watson House Approved for its use on ignition systems in Gas Appliance manufacture.

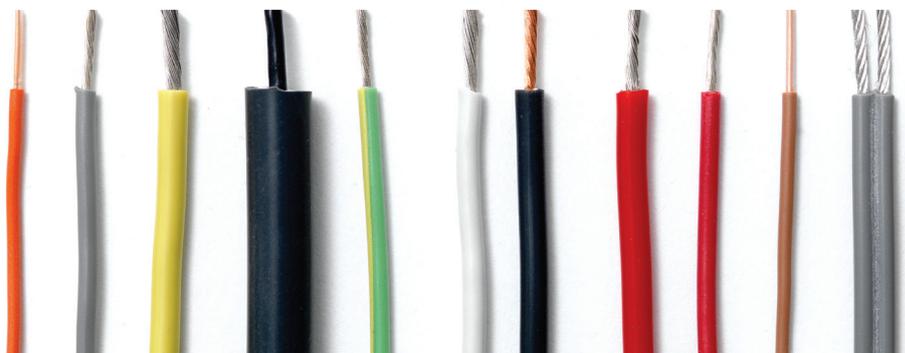
Wide-ranging Applications

Excellent stability to extremes of temperature

Silicone rubber insulated cables retain their properties of temperatures ranging from --60°C to 230°C.

Exceptional electrical insulating characteristics

Our cables have high dielectric strengths, high resistance to dielectric fatigue—low dielectric constants combined with low dissipation factors, and these 'properties combined with excellent moisture resistance ensure long term reliability even when operating under moist and corrosive conditions.



Weathering resistance

Excellent resistance to ozone, UV light, radiation, arcing and corona discharge, and will remain relatively unaffected even after long term exposure to extreme weathering conditions.

Low specific gravity.

The low specific gravity of many silicone rubbers ensures that a silicone rubber insulated cable is lighter than its equivalent plastic or rubber cable.

Silicone rubbers are extremely inert

They will not support fungal or bacterial growth and are ideally suited to food and medical applications.

Flame retardant

Silicone rubber insulated cables don't readily support burning. Specially formulated compounds have been developed to improve the flame retardant characteristics, ensuring the cables will meet all recognised vital flame tests.

Non Conductive Ash

Capable of working through and after intense fire. The silicone will ultimately decompose to a brittle Silica ash, which has excellent dielectric characteristics in its own right. Containment of the brittle ash i.e. by use of a glass braid will ensure continued performance of the cable even under such extreme conditions.



Our extensive range of cables manufactured by us to your exact requirements.

Silicone Engineering manufacture a standard range of Silicone Rubber Insulated Cables to BS 6141: 1981, BS 6007: 1975 and BS 6500: 1982.

Temperature rating of -Silicone Rubber -60 to +250°C.

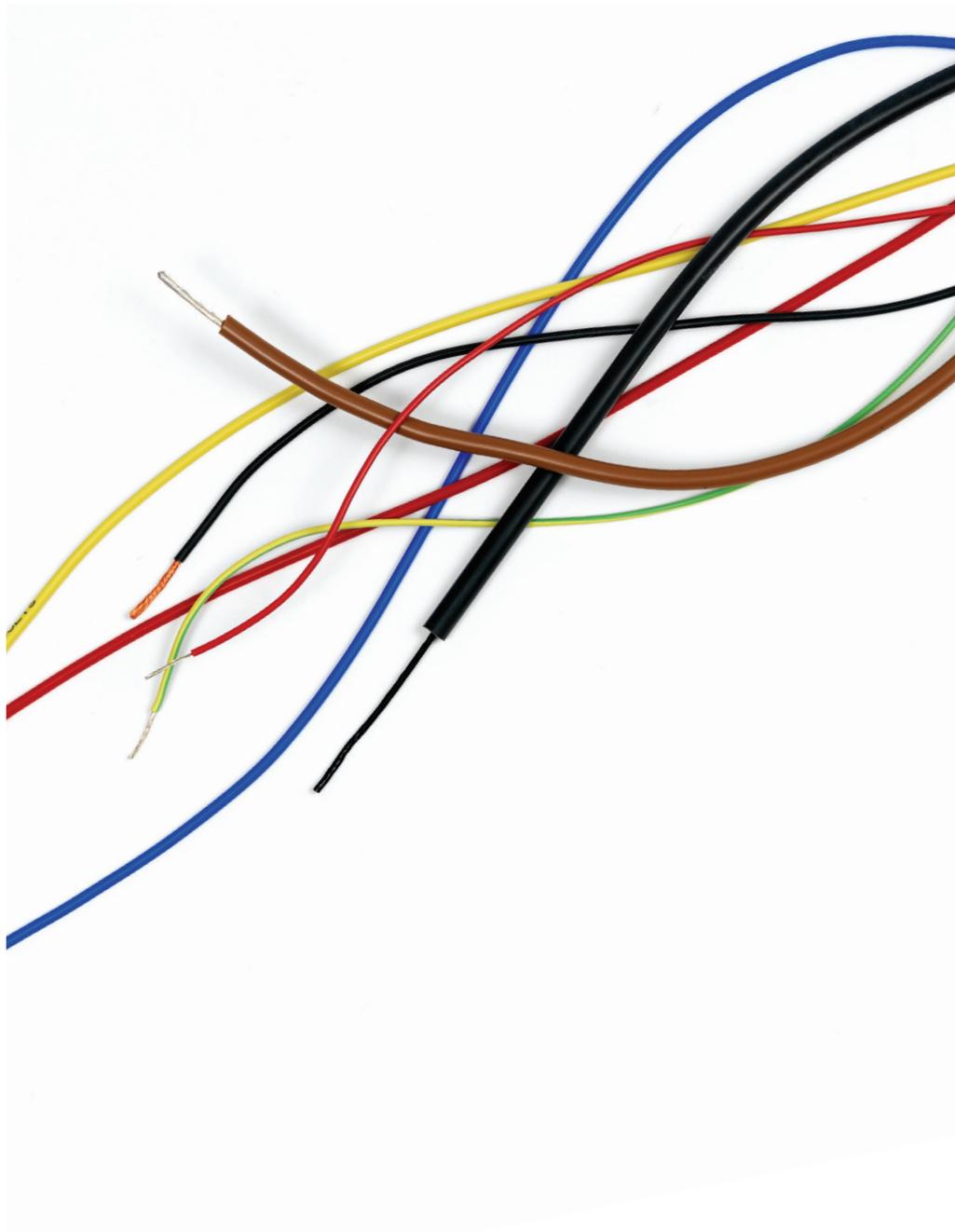
Where tinned copper conductors are specified, the cable should not be subjected to temperatures in excess of 180°C. With nickel plated conductors a maximum working temperature of 200°C is generally recommended-although in certain applications useful lives up to 250°C can be achieved. All cables are subjected to 'sparktesting' at a minimum of 4Kv potential, or as specified by the customer.

Cables can be supplied in any British Standard Approved Colour.

[Want to find out more?](#)

If you'd prefer to talk through your specific requirements or any other Silicone products, call our sales team on **+44 (0)845 6744 747** or email us at sales@silicone.co.uk.

We'll be very happy to help.



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