

TECHNICAL DATA SHEET

SILICONE IGNITION CABLE

T.D.009

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E.C.O. N **N.A**
Approved by **D.C.**

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Approved By
D.CARROD

1. DESCRIPTION

Triple silicone automotive ignition cable.

2. CUSTOMER

Generic.

3. OPERATING TEMPERATURE RANGE

-50 °C TO +250 °C (Class F, ISO3808 parts 1 & 2)

4. CONDUCTOR

Resistive Cored Cable

A uniformly graphite treated glass fibre roving over-braided with glass fibre yarn and subsequently coated with an extruded conductive silicone rubber jacket. The conductive silicone rubber jacket prevents loss of carbon, and provides a good mechanical & electrical contact with applied terminals.

Copper Cored Cable

19 strands of 0.29mm Tinned Copper conductor.

5. INSULATION (PRIMARY)

Primary Insulation consists of a Heat Curable Silicone Rubber jacket (HCSR).

6. BRAID (WHERE APPLICABLE)

Fibre Glass braid between the primary and secondary insulation layers.

7. INSULATION (SECONDARY)

Secondary insulation consists of a silicone rubber jacket pigmented to colour required.

8. FINISHED DIAMETERS

7.00mm ± 0.3mm
8.00mm ± 0.3mm

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9. CORE RESISTANCE

Resistive Core (Type 3)

9.8 Kohm To 23.0 Kohm/M (Meeting SAE J557 spec. now superseded no longer stating resistance value. All required RFI suppression characteristics met UTAC RFI information available.

Copper Core (Type 1)

0.01 Kohm/M

10. ELECTRICAL PROPERTIES OF SILICONE INSULATION

Volume resistivity: - cm = over 1×10^{14}

Electric strength:- Volts / mil = 500

Dielectric constant:- 60Hz = 2.95

Power factor:- 60Hz = 0.005

11. TENSILE STRENGTH

500 Newton's to elastic threshold

12. BREAKDOWN VOLTAGE

7mm = 35,000 volts

8mm = 40,000 volts

13. NOTES

NOTE 1. ISO 3808 /2 1980 (F) CLASSIFICATION – CLASS F, TYPES 1 & 3.