# TECHNICAL DATA SHEET (TDS)

PRODUCT NAME

## Soft Silicone Wire

**Item No.**

10AWG 1050/0.08TS

**Color**

Black/Red

**Length**

100m/Roll

# 1.PRODUCT IDENTIFICATION

**AWG Size**

**10 AWG**

**Conductor**

**1050/0.08 TS**

**Outer Diameter (OD)**

**5.4 mm**

**Color**

**Black/Red**

**Packing Length**

**100 m/roll**

**Material**

**Tinned Copper**

# 2. MATERIAL & CONSTRUCTION

**Conductor Material**
High-purity tinned electrolytic copper

**Conductor Stranding**
1050 strands × 0.08 mm

**Nominal Cross Section**
≈ 5.27 mm²

**Insulation Material**
Flexible high-temperature silicone rubber

**Insulation Thickness**
≈ 0.8 mm

**Key Benefits**
Excellent conductivity & Flexibility

# 3. ELECTRICAL PROPERTIES

### RATED VOLTAGE

**600V**

### WITHSTAND VOLTAGE

**≥ 3000V AC/1min**

(no breakdown)

### CONDUCTOR RESISTANCE

**≤ 3.5 Ω/km**

@ 20°C

The wire is designed to meet rigorous electrical standards, ensuring**safe operation**and**efficient power transmission**under normal operating conditions.

# 4. TEMPERATURE RANGE

### Operating Temperature

**-60°C ~ +200°C**

### Short-time Heat Resistance

**Up to +250°C**

The wire is designed to operate in a wide temperature range, making it suitable for various environments. Its robust construction ensures durability even in extreme thermal conditions.

# 5. MECHANICAL & ENVIRONMENTAL PROPERTIES

### Flexibility

Ultra Soft & High Flex Life

### Flame Class

VW-1 Rated for Safety

### Chemical Resistant

Oil, Acid & Alkali Resistant

### Anti-aging

Long Service Life

### UV Resistant

Suitable for Outdoor Use

### Waterproof

Reliable in Damp Conditions

**Key Takeaway:**Designed for durability and performance in harsh mechanical and environmental conditions.

# 6. PACKAGE DETAILS & APPLICATIONS

## PACKAGE DETAILS

**Color:**Black/Red

**Length Per Roll:** 100 Meters

**Packaging:** Film Wrapped Roll

## TYPICAL APPLICATIONS

- Battery leads & Power connection
- Motor wiring & Industrial control lines
- UAV / RC models
- Automotive wiring
- High-temperature equipment

**SUMMARY:**Our product is designed for durability and versatility, suitable for professional automotive and industrial environments.