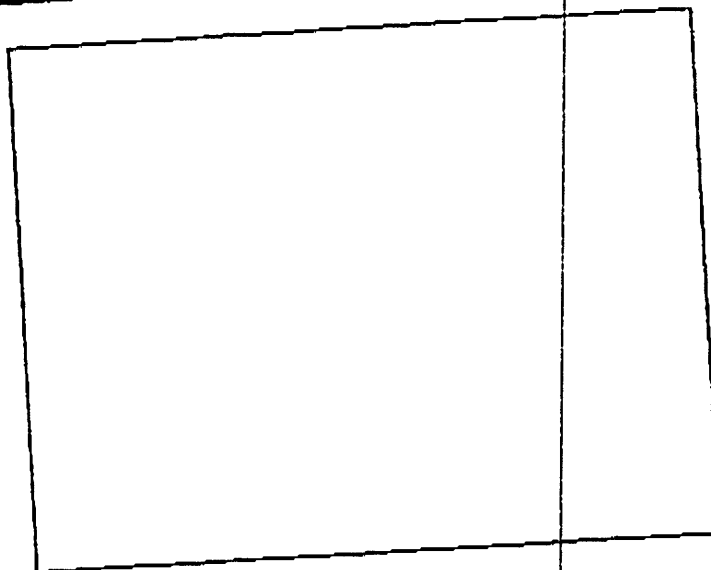


Product – Specification

tyco / Electronics 1st March 2004
ISSUE 2

TYPE TSL5000 SERIES

Silicone Cable



TYPE TSL 5000 SERIES

This tough silicone based insulation has been specially designed for the domestic appliance industry where traditionally PTFE or glass braided silicone rubber insulation has to be used. The standard colours are black, white, green, grey, purple, blue, red and yellow.

KEY FEATURES

- Variety of Colours
- High Reliability
- Latest Silicone Technology
- Suited to Domestic Appliances
- Meets British Standards Requirements
- Small Pack Sizes

STOCKISTS:

This product is stocked by Farnell

Sent By: MEGGITT ELECTRONIC COMPONENTS;

01793 572404

320 - 8758

MEGGITT SILICONE CABLE**TECHNICAL DATA SHEET**
TUFSIL 5000

This tough silicone based insulation has been specially designed for the domestic appliance industry where traditionally either PTFE or glass braided silicone rubber insulation had to be used. The standard colours are black, white, green, grey, purple, blue, red and yellow. Other colours are available on request.

	24/0.2	7/0.4	50/0.25
Voltage Rating	500V	500V	500V
Max Temp	180°C	180°C	180°C
Current Rating	28 Amp	25 Amp	36 Amp
Nominal Outside Diameter	2.4	2.5	2.6
Export Tariff No	85445910		
Lead Time	4 weeks		
Shelf Life	10 Years		
Weight 1000	Per 12K	12.2	20
Cross Section	0.75 mm ²	0.88 mm ²	1.5 mm ²
Insulation Thickness	0.6 mm	0.6 mm	0.6 mm

APPROVALS

Meggitt has UL Style approvals in Tufsil 5000 to the following styles: 3100, 3101, 3103, 3134, 3138 and 3140 which apply to specific cable constructions.

INSULATION

The physical properties of the insulation are as follows:

	Specification	Typical Values
Hardness Shore A	70 ±5	73
Tensile Strength Mpa	6	9
Elongation to break %	250	300
Tear Strength N/mm	N/A	18

The insulation meets the requirements of the BS6899 and BS7655 E12 specifications.

Sent By: MEGGITT ELECTRONIC COMPONENTS; 01793 811777;

CONDUCTOR

The conductor meets the BS360 requirements. Tufsil is available with different sized conductors to allow differing current carrying requirements.

CABLE

Physical Properties

Elongation to break
Tensile strength

250%
83Mpa

THERMAL PROPERTIES

5 mm mandrel test at 300°C: No cracks after eight hours.
20 mm mandrel test at 300°C: No cracks after seventeen hours.

HOW TO ORDER

TSC	24	A	6	W			
Common Part	Number of Conductor Strands	Diameter of Strands	Insulation Thickness	Colour of Insulation			
SL - Tufsil Cable	Eg. 7, 24, 30	0.20 mm = A 0.25 mm = B 0.40 mm = C	0.6 = 6	W - White R - Red B - Black			
<table border="1"> <thead> <tr> <th>Finished Cable Length</th> </tr> </thead> <tbody> <tr> <td>25 = 2 metres</td> </tr> <tr> <td>100 = 10 metres</td> </tr> </tbody> </table>					Finished Cable Length	25 = 2 metres	100 = 10 metres
Finished Cable Length							
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100 = 10 metres							

Grades of silicone rubber available from Meggitt Silicone Engineering are:

- General Purposes grades
- High Tear grades
- Cable grades
- Cellular Silicone Products
- Flame Retardant grades
- Low Compression set grades
- High temperature grades
- Low combustion hazard grades
- Injection and compression moulded silicone products

Product - Specification

tyco / Electronics 

 1st March 2004
 ISSUE 2

TYPE TSL5000 SERIES

SPECIFICATION

Voltage Rating:
 Maximum Temperature:
 Current Rating:
 Nominal Outside Diameter:
 Shelf Life:
 Cross Section:
 Insulation Thickness:
 Weight per 1000M:

24 / 0.2
 500V
 180°C
 23 Amps
 2.4mm
 10 Years
 0.75mm²
 0.6mm
 12 Kg

7 / 0.4
 500V
 180°C
 25 Amps
 2.5mm
 10 Years
 0.88mm²
 0.6mm
 12.2 Kg

50 / 0.25
 500V
 180°C
 36 Amps
 2.8mm
 10 Years
 1.5mm²
 0.6mm
 20 Kg

INSULATION

The physical properties of the insulation are as below:

Specification
 70 ± 5
 6
 250
 n/a

Typical Values
 73
 9
 300
 18

Hardness Shore A:
 Tensile Strength (Mpa):
 Elongation to Break (%):
 Tear Strength N/mm

The insulation meets the requirements of the BS6899 and BS7655 E12 specifications.

CONDUCTOR

The conductor meets BS6360 requirements.

CABLE

Physical Properties
 Elongation to Break (%):
 Tensile Strength (Mpa):

250%
 6

Thermal Properties
 5mm Mandrel test @ 300°C:
 20mm Mandrel test @ 300°C:

No cracks after 8 hours
 No cracks after 17 hours

HOW TO ORDER

TSL COMMON PART
TSL - Tufsil Silicone Cable

2A CONDUCTOR STRANDS
7 24 30

A STRAND DIAMETER
A - 0.20mm B - 0.25mm C - 0.40mm

W INSULATION COLOUR
W - White R - Red B - Black

100 LENGTH
25 - 25 Metres 100 - 100 Metres

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