

## Datasheet

### **RS Pro Brown Heat Shrink Tubing sleeve diameter 25.4mm length 1.2m ratio 2:1**

RS Stock No: **537-8134**



## Product Details

RS Pro heat shrink tubing sleeve in brown colour, has 25.4 mm diameter and 1.2 m length with a ratio of 2:1. The new harmonised colours are available in all sizes to support IEE regulations on phase colours to BS 7671. It is used as an over sleeve and it can up-grade your cables to meet the latest fire safety standards as well. Zero halogen heat shrink exceeds the requirements of London Underground and the MOD and is recommended where fire safety is of prime importance. This sleeve is used in areas such as public buildings, public transport, underground rail systems, submarines, hospitals and airports, etc. The tubing sleeve meets E 1042-A6-March 2002, IEC 60684-3-216 type C, DEF Stan. 59-97 issue3 Type 8 and BS3G 198 part 3 type 15 standards.

## Features and Benefits

- Highly flame retardant with a flame temperature index of over 350°C
- Halogen free
- Very low smoke, meets LUL requirements
- No toxic fume emission
- High oxygen index, over 40%
- Ideal for use in insulation, cable protection, cable identification and encapsulation on connectors
- Used as a cover to upgrade cable to meet full fire safety standards
- Supplied in cut lengths of 1.2 m



**Specifications:**

|                               |   |
|-------------------------------|---|
| Adhesive Lined                | No  |
| Angle                         | Straight  |
| Colour                        | Brown   |
| Dielectric Strength           | 30 kV/mm  |
| Flame Retardant               | Yes   |
| Halogen Free                  | Yes   |
| Material                      | Polyolefin  |
| Maximum Operating Temperature | +105°C  |
| Minimum Operating Temperature | -40°C   |
| Operating Temperature Range   | -40 to +105°C   |
| Shrink Ratio                  | 2:1   |
| Shrunk Diameter               | 12.7 mm   |
| Sleeve Diameter               | 25.4 mm   |
| Sleeve Length                 | 1.2 m   |
| Sleeve Type                   | Heat Shrink   |
| Standards Met                 | E1042-A6-March 2002, IEC 60684-3-216 Type C, BS3G 198 Part 3 Type 15, DEF 59-97 Issue3 Type 8, RoHS Compliant |



## SPECIFICATION VALUES

| PROPERTY (UNITS)  | TEST METHOD   | REQUIREMENT   |
|---|---|---|
| <b>Physical:</b><br>Tensile strength (psi)<br>Elongation (%)<br>Specific gravity<br>Low temperature flex. (-55°C)<br>Heat shock (225°C, 4 hrs.)<br>Heat resistance (150°C, 168 hrs.)<br><br>Elongation (%)<br>Secant modulus (psi)<br>Longitudinal change (%)   | ASTM D638<br>ASTM D638<br>ASTM D792<br>AMS-DTL-23053<br>AMS-DTL-23053<br><br>ASTM D638<br>ASTM D882<br>AMS-DTL-23053      | 1500 min..<br>200 min.<br>1.5 nom.<br>no cracking<br>no cracking<br><br>100 min.<br>2.5 X 10 <sup>4</sup> max.<br>+5 to -15   |
| <b>Electrical:</b><br>Dielectric strength (volts/mil)<br>Volume resistivity (ohm-cm)  | ASTM D876<br>ASTM D876  | 500 min.<br>1 X 10 <sup>13</sup> min.   |
| <b>Chemical:</b><br>Copper mirror corrosion (175°C 168 hrs.)<br>Water absorption (%)<br>Fluid resistance (23°C, 24 hrs.)<br>MIL-T-5624<br>MIL-H-5606<br>MIL-L-23699<br>MIL-L-7808<br>MIL-A-8243<br>O-S-1296<br>Tensile strength (psi)<br><br>Dielectric strength (volts/mil)<br>Flammability<br>Smoke index (D <sub>m</sub> )<br><br>Acid gas generation (as hydrogen halides), % | AMS-DTL-23053<br>ASTM D570<br><br>ASTM D638<br><br>ASTM D876<br>AMS-DTL-23053 (4.6.15.1)<br>ASTM E 662<br><br>MIL-C-24643 | no corrosion<br>1.0 max.<br><br>1000 min., except<br>800 min. for<br>MIL-T-5624<br>400 min.<br>60 seconds max.<br>flaming mode 70 max.<br>non-flaming mode 100 max.<br><br>0.2 max. |