

## Datasheet

# RS Pro Brown Heat Shrink Tubing sleeve diameter 1.6mm length 1.2m ratio 2:1

RS Stock No: **537-7945**



## Product Details

RS Pro heat shrink tubing sleeve in brown colour, has 1.6 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	0.8 mm
Sleeve Diameter	1.6 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> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55°C) Heat shock (225°C, 4 hrs.) Heat resistance (150°C, 168 hrs.)  Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053  ASTM D638 ASTM D882 AMS-DTL-23053	1500 min.. 200 min. 1.5 nom. no cracking no cracking  100 min. 2.5 X 10 <sup>4</sup> max. +5 to -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1 X 10 <sup>13</sup> min.
<b>Chemical:</b> Copper mirror corrosion (175°C 168 hrs.) Water absorption (%) Fluid resistance (23°C, 24 hrs.) MIL-T-5624 MIL-H-5606 MIL-L-23699 MIL-L-7808 MIL-A-8243 O-S-1296 Tensile strength (psi)  Dielectric strength (volts/mil) Flammability Smoke index (D <sub>m</sub> )  Acid gas generation (as hydrogen halides), %	AMS-DTL-23053 ASTM D570  ASTM D638  ASTM D876 AMS-DTL-23053 (4.6.15.1) ASTM E 662  MIL-C-24643	no corrosion 1.0 max.  1000 min., except 800 min. for MIL-T-5624 400 min. 60 seconds max. flaming mode 70 max. non-flaming mode 100 max.  0.2 max.