

3:1 DUAL WALL HEATSHRINK KIT

HSKIT3:1DUALWALL

High shrink ratio, Flexible, Polyolefin Heat Shrink Tubing Kit. 3:1 Dual Wall Tubing: SHW-1-SB (3X)

This kit comprises varying sizes and lengths of black adhesive-lined tubing packed in a handy transparent plastic compartment box.

This Kit Contains:

- 3.2mm (45mm length) x 50
- 4.8mm (45mm length) x 30
- 9.5mm (70mm length) x 20
- 12.7mm (70mm length) x 10
- 19.1 (70mm Length) x 10



Characteristics

- Operating temperature -55°C to +125°C
- Minimum shrink temperature 80°C
- Shrink Ratio 3:1
- Approvals: UL224, 125°C 600V VW-1
- Standard Colors: Black
- RoHS Compliant

Applications

Manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protected articles. Used to protect auto wires, shipping cable, bundle wires and metal tubes against water and moisture. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

Technical Data-- Out Jacket Material

| Property | Test Method | Standard Value |
|------------------------|-------------|----------------|
| Tensile Strength | ASTM D 2671 | ≥12.0MPa |
| Ultimate Elongation | ASTM D 2671 | ≥400% |
| Longitudinal Shrinkage | UL 224 | 0 -10% |

| | | |
|--------------------------------|---------------|--------------------------|
| Heat Aging Ultimate Elongation | 158°C, 168hrs | 350% |
| Flammability | VW-1 | Pass (out jacket only) |
| Dielectric Strength | IEC 243 | ≥20kV/mm |
| Volume Resistivity (ohm-cm) | UL224 | ≥1x10 ¹⁴ Ω·cm |
| Copper Stability | ASTM D 2671 | Pass |
| Corrosion | UL224 | No corrosion |

Technical Data-- Adhesive

| Property | Test Method | Standard Value |
|------------------------|-------------|----------------|
| Water Absorption | ISO 62 | <0.2% |
| Softening Point | ASTM D E28 | 85°C +/-5°C |
| Longitudinal Shrinkage | UL 224 | 0 to -10% |
| Peel Strength (to PE) | ASTM D 1000 | 120N/25m |
| Peel Strength (to AL) | ASTM D 1000 | 80N/25m |

Dual Wall 3:1 Heat Shrinkable Tubing (HSKIT31DUALLWALL)

| Size | | As supplied | After recovery (mm) | | |
|------|------|-----------------------------|------------------------|----------------------|----------------------------|
| Inch | mm | Internal Diameter Min. (mm) | Internal Diameter Max. | Total Wall Thickness | Wall Thickness of Adhesive |
| 1/8 | 3.2 | 3.2 | 1.0 | 0.90±0.15 | 0.35±0.10 |
| 3/16 | 4.8 | 4.8 | 1.6 | 1.00±0.15 | 0.40±0.10 |
| 3/8 | 9.5 | 9.5 | 3.20 | 1.40±0.15 | 0.50±0.12 |
| 1/2 | 12.7 | 12.7 | 4.20 | 1.70±0.15 | 0.50±0.12 |
| 3/4 | 19.1 | 19.1 | 6.30 | 1.95±0.15 | 0.55±0.15 |

CERTIFICATE OF RoHS COMPLIANCE

SHW-1-SB (3X) has been manufactured from materials that are compliant with the UK (EU) RoHS requirements.

The materials in our heat shrink ranges have been independently tested by an appropriate third party and we retain these records and intend to repeat such tests on an ongoing basis as part of our quality control procedures.

Testing methods include:

- EPA method 3050B:1996 other acid digestion
- BSEN1122: 2001 method B other acid digestion
- EPA method 3052B:1996 other acid digestion
- EPA method 3060 & EPA 7196A:1992
- Atomic Absorption Spectrometer/ Inductively coupled Plasma Atomic Emission Spectrometer (ICP+AES) UV-VIS Spectrophotometer