

# Mixed Size Heat Shrink Tubing Kit Black

pro-POWER

RoHS  
Compliant



## Features

- Operating temperature -45°C to +125°C (Dual Wall) and for -55°C to +125°C (Normal Wall)
- Minimum shrink temperature 70°C (Dual and Normal Wall)
- Shrink Ratio 2:1/3:1/4:1
- Approvals: UL224, 125°C 600V VW-1
- Colour: Black

## Applications

This series of heat shrink tubing is manufactured with modified radiation cross-linked polyolefin. The specially designed halogen-free formulation makes the tubing very flexible and shrinks at a lower temperature. Suitable for applications where temperature-sensitive components protection, e.g. PVC jacketed wire and cable and quick shrinkage is required. It has good mechanical and electrical performance.

The 3X, 4X 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. A high expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

## Kit Contains

- 2:1 normal wall, 3.2mm (45mm × 50pcs)
- 2:1 normal wall, 4.8mm (45mm × 30pcs)
- 2:1 normal wall, 6.4mm (45mm × 20pcs)
- 3:1 dual wall, 9.5mm (70mm × 20pcs)
- 3:1 dual wall, 12.7mm (70mm × 10pcs)
- 4:1 dual wall 16mm (70mm × 10 pcs)

## Technical Data - Out Jacket Material

Property	Test Method	Typical Data
Tensile Strength	ASTM D2671	≥10.4 Mpa
Ultimate Elongation	ASTM D 2671	≥200%
Longitudinal Shrinkage	UL 224	±5%
Heat Aging Tensile Strength Ultimate Elongation	158°C, 168hrs	≥7.3 Mpa ≥100%
Heat shock	250°C, 4hrs	No cracking, No dripping
Flammability	FMVSS302	Pass
Dielectric Strength	ASTM D150	≥15kV/mm
Volume Resistivity	ASTM D2671	≥10 <sup>14</sup> Ω.cm
Copper Stability	UL224	Pass
Copper Corrosion	UL224	No Corrosion

## Normal Wall 2:1 Heat Shrinkable Tubing

Size		As supplied	After Recovery	
Inch	mm	Internal diameter (mm)	Internal diameter Max.(mm)	Wall thickness Nom (mm)
1/8	3.2	3.5 ±0.2	1.5	0.4 ±0.1
3/16	4.8	5 ±0.2	2.3	0.5 ±0.1
1/4	6.4	6.5 ±0.2	3	0.55 ±0.1

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## Technical Data for Normal Wall 3:1/4:1 tube

Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	≥12MPa
Ultimate Elongation	ASTM D 2671	≥300%
Longitudinal Shrinkage	UL 224	±8%
Heat Aging Ultimate Elongation	158°C, 168hrs	≥200%
Flammability	VW-1	Pass (out jacket only)
Dielectric Strength	IEC 243	≥15kV/mm
Volume Resistivity (ohm-cm)	UL224	≥10 <sup>14</sup> Ω.cm
Copper Stability	ASTM D 2671	Pass
Corrosion	UL224	No corrosion

## Adhesive Data for Normal Wall 3:1/4:1 tube

Property	Test Method	Typical Data
Water Absorption	ISO 62	<0.2%
Softening Point	ASTM D E28	95°C
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

Size		As supplied	After Recovery		
Inch	mm	Internal diameter Min.(mm)	Internal diameter Max.(mm)	Total Wall Thickness(mm)	Wall Thickness of Adhesive
3/8	9.5	9.5	3.2	1.45 ±0.3	0.5 ±0.2
1/2	12.7	12.7	4.2	1.65 ±0.3	0.5 ±0.2

## Dual Wall 4:1 Heat Shrinkable Tubing

Size		As supplied	After Recovery		
Inch	mm	Internal diameter Min.(mm)	Internal diameter Max.(mm)	Total Wall Thickness(mm)	Wall Thickness of Adhesive
5/8	16	16	4	2 ±0.3	0.7 ±0.3

## Part Number Table

Description	Part Number
Heat Shrink Tubing Kit, Polyolefin, Black, 140 Pcs	HSKITMIXED

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