

Heat Shrink for Automotive Parts

A1-QSZH Wire Splice Dual Wall Heat Shrink Tube

Introduction

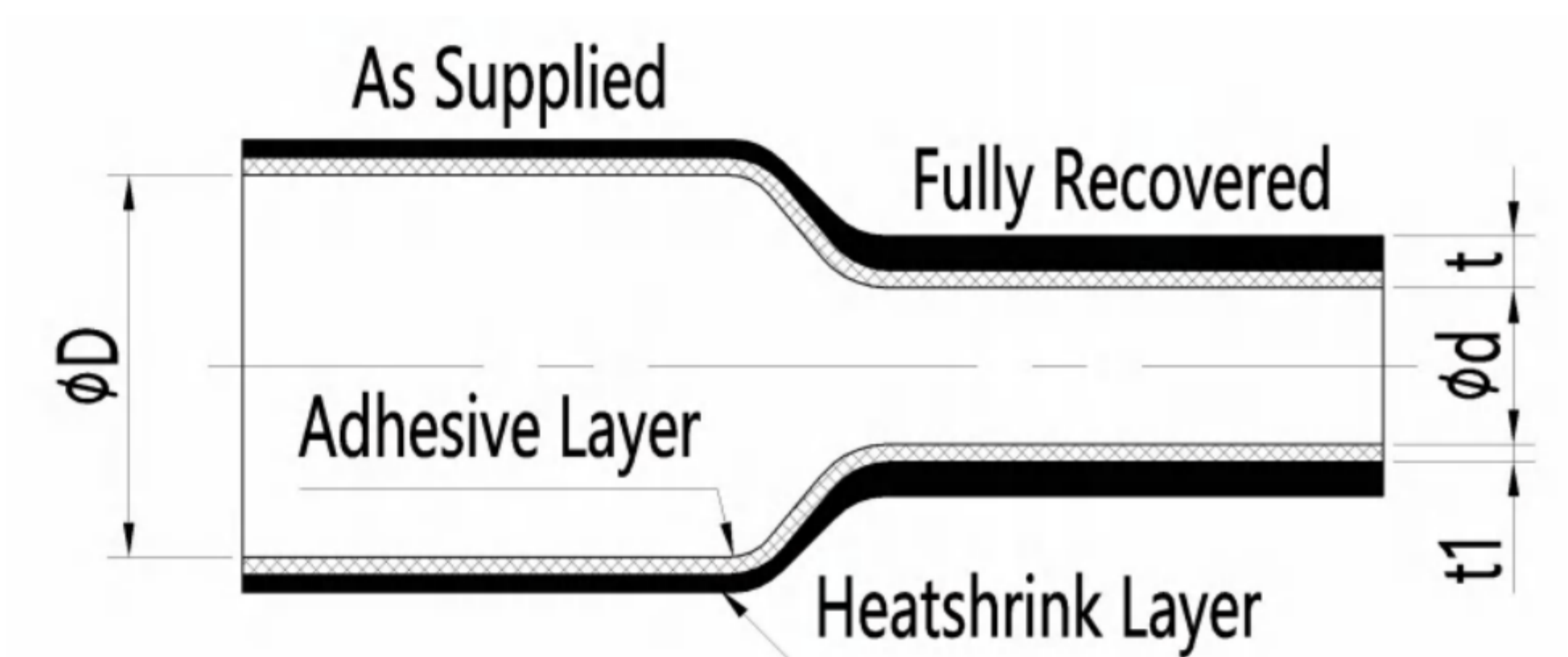
Polyolefin dual wall heat-shrinkable tube, halogen-free, high shrinkage rate, suitable for waterproof sealing and insulation protection of automotive wiring harness wire connectors, terminals and components; Length can be customized

Features

- Operating temperature: -40~125 °C
- Minimum full recovery temperature: 125 °C
- Halogen-free and Environmentally friendly, ELV & RoHS compliant
- Shrink ratio: 4:1
- Standard color: Clear (outer jacket) Black (inner layer)

Dimensions

Part No. A1-QSZH	As supplied (mm)	After recovered (mm)		
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)
5.75	5.75	1.25	1.20	0.60
7.5	7.5	1.65	1.60	0.80
11.0	11.0	2.40	2.00	1.00
14.0	14.0	3.00	2.20	1.20
18.3	18.3	4.35	2.40	1.40



Technical Data

Property	Test method	Requirement
Longitudinal change	ASTM D2671	$\geq -10\%$
Inner wall flow	--	Total blocking (in at least one area of the splice length)
Split Resistance	--	No splitting at 200°C
Flammability	FMVSS302	100 mm/min maximum
Scrape Abrasion	ISP 6722	Size 5.75, ≥ 500 cycles to cut through Size 11, ≥ 5000 cycles to cut through
Heat Aging Long Term (125°C/3000h)	--	
- Visual		No cracking of tubing jacket after 3000 hours at 125°C
-Insulation Resistance		$\geq 2 \times 10^8 \Omega$
Tensile strength	ISO 37	≥ 10 MPa
Ultimate elongation	ISO 37	$\geq 250\%$
2% Secant modulus (Outer layer / recovered)	ASTM D882	≥ 75 MPa
Volume resistivity	ASTM D2671	$\geq 1.0 \times 10^{12} \Omega \cdot \text{cm}$
Thermal Indentation	ISO 6722	Minimum of 40% residual wall thickness
Copper Mirror Corrosion (150°C/16 h)	ASTM D2671	No Corrosion
Dielectric Strength	IEC 243	≥ 16 kV/mm
Density	ISO 1183	≤ 1.20 g/cm ³
Water Absorption	ISO 62	$\leq 0.5\%$