



## Heat Shrink for Automotive Parts

### A1-CAP Wire Termination Heat Shrink Cap

#### Introduction

Special end cap design, with double-layer structure of hot melt adhesive, specially designed to provide insulation, sealing and protection for short joints in electrical wiring harnesses.

#### Features

- Operating temperature: -40~125 °C
- Shrink ratio: 4:1
- Minimum full recovery temperature: 135 °C
- Standard color: Black
- Environmentally friendly, ELV & RoHS compliant

#### Dimensions

Part No. A1-CAP	As supplied (mm)		After recovered (mm)		
	Length L (±2)	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	Adhesive Wall thickness t1 (nom.)
A1-CAP-1	30~50	5.72	1.27	1.30	0.70
A1-CAP-2	30~65	7.44	1.65	1.70	0.90
A1-CAP-3	30~65	10.85	2.41	2.40	1.40
A1-CAP-4	30~65	12.7	3.0	2.60	1.50
A1-CAP-3.2	30~50	3.2	1.0	1.00	0.50

#### Technical Data

Property	Test method	Requirement
Longitudinal change	ASTM D2671	≥-10%
Tensile strength	ASTM D2671	≥10.4 MPa
Ultimate elongation	ASTM D2671	≥300%
Heat Aging (158°C/168h)	ASTM D2671	
Tensile Strength		≥7.3 MPa
Ultimate Elongation		≥200%
Water absorption (23°C/24h)	ASTM D570	≤0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D2671	No cracking
Heat shock (225°C/4h)	ASTM D2671	No cracking, dripping or flowing of outer jacket
Dielectric strength	ASTM D2671	≥16 kV/mm
Volume resistivity	ASTM D2671	≥1.0×10 <sup>12</sup> Ω.cm
Dielectric voltage Withstand	AC 2500V, 60S	No breakdown
Flammability	ISO 6722-1	Self-extinguishing within 60S
Copper corrosion (158°C/168h)	ASTM D2671	No corrosion

