



# Heat Shrink



## Application

Fast, reliable waterproof connections

## Key Features

- Protects against water intrusion and accidental disconnection
- Provides added strain relief for the connector/cable assembly
- Heat indicating lines
- High impact and abrasion resistance
- Installs in minutes
- Adhesive at ends only allows easy removal for connector-kit maintenance (#81)
- Continuous operating temperature -55°C to 110°C
- Shrink temperature: 120°C

## Ordering Information

#80	16" Adhesive Throughout
#81	16" Adhesive at Ends Only

## Dimensions

### Expanded

Internal diameter (min) 38.1 mm/1.5 in

### Recovered

Internal diameter (max) 9.53 mm/0.0375 in

Wall thickness (nom) 2.0 mm/0.08 in

Sleeve Length 40.6 cm/16 in



# Technical Data

Property	Test Method	Typical Performance
Tensile strength	ASTM D412, ISO 37	2100 psi (14.5 MPa)
Elongation	ASTM D412, ISO 37	550%
Longitudinal Change	ASTM D2671	+1%, -10%
Specific Gravity	ASTM D792, ISO 37	1.1
Elongation after Heat Aging (168 hrs at 150°C)	ASTM D2671, ISO 37	500%
Heat Shock (4 hrs at 225°C)	ASTM D2671	No cracking or flowing
Low Temperature Flexibility (4 hrs at -55°C)	ASTM D2671	No cracking
Hardness (Shore D)	ASTM D2240	50D

## Electrical

Dielectric Strength	ASTM D149	500 V/Mil (20kV/mm)
Dielectric Voltage Withstand (2500V, 60Hz, 1 min)	UL-486D	No Breakdown
Volume Resistivity	ASTM D257	1016ohm-cm

## Chemical

Fluid Resistance	MIL-DTL-23053/5, ISO 1817, ISO 37	Good to Excellent
Copper Corrosion	ASTM D2671	No Corrosion
Water Absorption	ASTM D570	0.1%
Fungus Resistance	ASTM G21	No Growth

## Adhesive

Adhesive Softening Point	ASTM E28	92°C+/-5°C
Adhesive Peel Strength (300mm/min at 23°C)	ASTM D1000	
to steel, alum, P.E.	ASTM D1000	35 pli
to PVC	ASTM D1000	20 pli
Adhesive Lap Shear (1in/min at 23°C)	ASTM D1002 (mod)	125 psi (0.875 MPa)
Adhesive Blocking (30°C)	ASTM D1146	No blocking
Water Penetration	STM 706	No penetration after 286 hrs. (min) of continuous immersion.