

# Routing, Protection and Insulation

## Heat Shrink Tubing

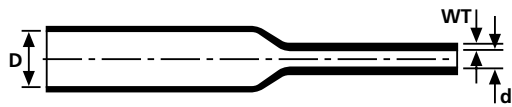
### Adhesive Lined Thick Wall

#### HA47 Sticks Adhesive-Lined Thick Wall

HA47 is a thick-wall adhesive lined heat shrink tubing for use in applications up to 1000 volts. The adhesive lining provides excellent moisture sealing and weather protection, making it suitable for above and below ground applications. Made of a polyolefin outer material, this tubing has a shrink ratio up to 3.5 to 1. The adhesive lining begins to activate as the temperature approaches 185° F (85° C).

#### Features and Benefits

- Thick, semi-flexible exterior wall is well-suited for applications up to 1000 volts, above or below ground.
- Adhesive lining provides excellent insulation against moisture and humidity.
- Individually tagged 4-foot sticks come in a retail box.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	up to 3.5:1
<b>Longitudinal Change After Shrinkage</b>	-10 % max.
<b>Min. Shrink Temperature</b>	+248 °F (+120 °C)
<b>Operating Temperature</b>	-67°F to +230°F (-55°C to +110°C)
<b>Softening Point Adhesive</b>	+185°F (+85°C)
<b>Dielectric Strength</b>	>20 kV/mm
<b>Flammability</b>	Not Flame Retardant



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
321-50010	TREDUX HA47-48ST-13/4	1/2	0.51 (13.0)	0.16 (4.0)	0.09 (2.4)	Black	6
321-50011	TREDUX HA47-48ST-19/6	3/4	0.75 (19.0)	0.24 (6.0)	0.11 (2.7)	Black	10
321-50012	TREDUX HA47-48ST-33/8	1-1/4	1.30 (33.0)	0.32 (8.0)	0.13 (3.2)	Black	5
321-50013	TREDUX HA47-48ST-45/12	1-3/4	1.77 (45.0)	0.47 (12.0)	0.16 (4.1)	Black	4
321-50014	TREDUX HA47-48ST-51/16	2	2.01 (51.0)	0.63 (16.0)	0.16 (4.1)	Black	2
321-50015	TREDUX HA47-48ST-68/22	2-3/4	2.67 (68.0)	0.87 (22.0)	0.16 (4.1)	Black	1
321-50016	TREDUX HA47-48ST-85/25	3-1/4	3.35 (85.0)	0.98 (25.0)	0.17 (4.3)	Black	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.