



A division of CSA Technical Solutions, LLC
1959 Hammondville Road, Pompano Beach, FL 33069
Phone 954-978-0056 Fax 888-617-2010
www.BuyHeatShrink.com

Heat Shrink Tubing Dual Wall Adhesive Lined 4:1 Ratio Pre-Cut

Our 4:1 heat shrink tubing is also available with a "dual-wall" construction. When exposed to heat (usually a bit lower than the activation temperature of the heat shrink), the inner layer begins to flow (just like a hot melt glue). When the tubing shrinks and cools down, the inner layer forms an adhesion layer between the tubing and the component or wire. This provides a watertight seal, protecting the connector and/or wire.

Features:

- 3:1 Shrink Ratio with melt adhesive inner lining (shrinks to 1/3 its original diameter)
- Longitudinal Shrinkage: up to 10%
- Meets requirements of AMS-DTL-23053/15 (formerly MIL-I-23053/15), Class 1
- UL 224 VW-1 flame retardant (jacket only)
- UL 486D rated for direct burial
- Dielectric Strength 500 V/mil (500 x Jacket Wall thickness x 1000) (for example, a typical tube thickness after shrinking will be about 0.10. Using these calculations, the rating will be about 50,000V, or 50KV)
- Maximum Continuous use temperature 110°C
- Shrink Temperature of 120°C and operating temperature of -55°C to + 110°C
- Crosses to: Canusa CFW, 3M HDT, 3M ITCSN, Tyco Raychem RHW, LG PHWT
- Typical applications include: Electrical insulation - Ideal for exposed or underground applications providing good insulation, waterproofing and mechanical protection. Also suitable for Mechanical and abrasion protection, Physical/Electrical Protection of Components, Strain Relief, and Solder Insulation.
- 4:1 Adhesive lined (Dual Wall) Heat Shrink cut pieces. This is the same product as our 4:1 adhesive lined heat shrink, sold in precut pieces. Note - there is a 2-3 week lead time for all cut pieces.

Specifications/Approvals:

- **Military:** AMS-DTL 23053/4 (Formerly Mil-I-23053/4)
- **Underwriters Lab:** UL 224 600V, 125°C, VW-1 (Jacket only)
- CSA
- **Crosses to:** Sumitomo W3B2 (4X), Raychem ATUM 4X

Dimensions

Diameter	Bag	Part Number	Min ID before shrinking	Max ID after shrinking	Minimum Wall Thickness (Total)	Minimum Wall Thickness (Adhesive)
3/16"	1000 PCS/BAG	HS4A-0188	0.1575"	0.039"	0.0354"	0.0197"
5/16"	500 PCS/BAG	HS4A-0313	0.315"	0.079"	0.0354"	0.0197"
1/2"	500 PCS/BAG	HS4A-050	0.4724"	0.118"	0.0512"	0.0236"

5/8"	500 PCS/BAG	HS4A-0625	0.6299"	0.157"	0.063"	0.03"
1"	100 PCS/BAG	HS4A-100	0.9449"	0.2362"	0.0827"	0.0311"
1-1/4"	100 PCS/BAG	HS4A-125	1.2598"	0.315"	0.096"	0.0409"
2"	100 PCS/BAG	HS4A-200	2.0472"	0.5118"	0.0984"	0.0409"