



# DUNBAR – 3635

3:1 SHRINK RATIO, FLEXIBLE, FLAME RETARDANT, POLYOLEFIN TUBING


## Applications

DUNBAR-3635 is a flexible, high shrink ratio, flame retardant, heat resistant, heat shrinkable polyolefin tube. It may be used to cover large size differences such as wiring harnesses and connectors. Also ideal for light-duty harnesses, jacketing, and identification of wires, cables, and electrical and electronic components.

## Features

- ★ Shrink ratio: 67% or more in the radial direction, 10% or less in the axial direction
- ★ Continuous operating temperature: - 55°C to 135°C
- ★ Flammability: UL VW-1, CSA OFT, -F-MARK
- ★ Excellent electrical properties
- ★ High resistance to chemicals and oils

## Standard

- ★ UL 224 (File Number: E319303) 
- ★ MIL-DTL-23053/5 Class 1 (Clear is Class 2)

## Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D 638	Min. 1.06 kgf/mm <sup>2</sup>
		Elongation		Min. 200%
	Aged	Tensile strength	158°C/168 hrs	Min. 75% of the value of unaged specimens
		Elongation		Min. 100%
	Deformation		158°C/1 hr	Max. 50%
	Heat shock		250°C/4 hr	No crack
	Cold bend		- 55°C/4 hr	No crack
	Flexibility		158°C/168 hrs	No crack
	Secant Modulus		-	Max. 17.64 kgf/mm <sup>2</sup>
Electrical	Dielectric strength		-	Min. 2.5kV/1 minute
	Volume resistivity		-	Min. 10 <sup>14</sup> Ω - cm
Chemical	Copper corrosion		158°C/168 hrs	No corrosion
	Copper stability		158°C/168 hrs	No sign of degradation
	Flammability		VW-1	Pass

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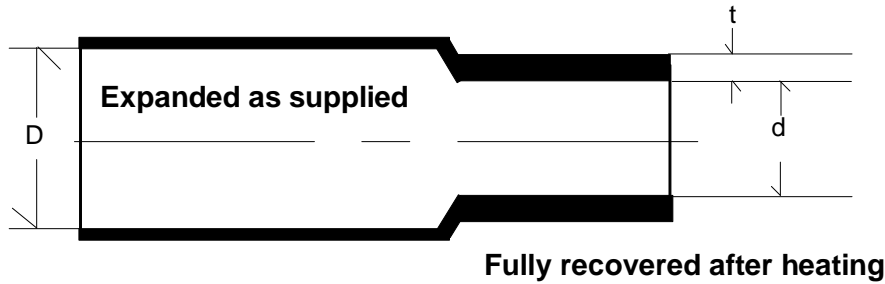
Dunbar Associates  
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### Product Dimensions

Minimum Shrink Temperature: 120°C

Size	Expanded		Recovered			
	Internal Diameter Minimum (D)		Internal Diameter Maximum (d)		Minimum Total Wall Thickness (t)	
	In.	mm	In.	mm	In.	mm
<b>Metric (Inch)</b>						
1.5mm (1/16")	0.059	1.5	0.020	0.5	0.0157	0.40
3mm (1/8")	0.118	3.0	0.039	1.0	0.0120	0.50
4.5mm (3/16")	0.177	4.5	0.059	1.5	0.0212	0.54
6mm (1/4")	0.235	6.0	0.078	2.0	0.0232	0.59
9mm (3/8")	0.354	9.0	0.118	3.0	0.0268	0.68
12mm (1/2")	0.472	12.0	0.157	4.0	0.0268	0.68
18mm (3/4")	0.708	18.8	0.236	6.0	0.0303	0.77
24mm (1")	0.945	24.0	0.315	8.0	0.0354	0.90
38mm (1-1/2")	1.496	38.0	0.512	13.0	0.0409	1.04

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