



# DUNBAR – 1635F

2:1 SHRINK RATIO, FLEXIBLE, FLAME RETARDANT, POLYOLEFIN TUBING

## Applications

DUNBAR-1635F is a flexible, flame retardant, heat shrinkable polyolefin tube. It is designed for a wide range of applications including insulation for electric & electronic devices, wire strain relief, and protective covering for parts such as resistors and capacitors.

## Features

- ★ Shrink ratio: 50% or more in the radial direction, 5% or less in the axial direction
- ★ In stock for immediate shipments (All Colors, and Yellow/Green stripe)
- ★ Continuous operating temperature: - 55°C (-67°F) to 135°C (275°F)
- ★ Low Temperature Printable – Thermal Transfer or Hot Stamp
- ★ Flammability: UL VW-1, CSA OFT, -F-MARK (except clear)
- ★ High resistance to abrasion, chemicals, and oils

## Standard

- ★ AMS-DTL-23053/5 Class 1 & 3, Class 2 is Clear (Formerly MIL-DTL-23053/5 Class 1, 2 & 3)
- ★ UL 224 (File Number: E319303)
- ★ RoHS Compliant

## Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1,500 psi	
		Elongation	Min. 200%	
	Aged	Elongation	ASTM D638	Min. 100%
	Fluid Resist.	Tensile strength	24°C/24 hrs	Min. 1,000 psi
		Dielectric strength	6 Fluids	Min. 400 Volts/mil
	Concentricity		ASTM D2671	Min. 70%
	Heat shock		250°C/4 hrs	No cracks, flowing or dripping
	Low temperature flexibility		- 55°C/4 hrs	No cracking
	Secant modulus		ASTM D882	Max. 25,000 psi
Specific gravity		ASTM D792	Max. 1.35 (Max. 1.00 Clear)	
Electrical	Dielectric strength		ASTM D2671	Min. 500 Volts/mil
	Volume resistivity		ASTM D876	Min. 10 <sup>14</sup> Ω - cm
Chemical	Copper corrosion		175°C/16 hrs	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5%
	Flammability		ASTM D2671	Pass

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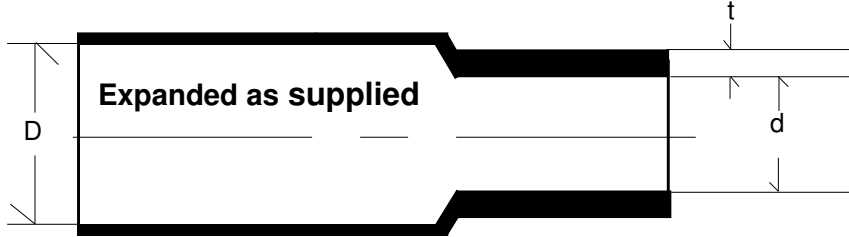
**Dunbar Products, LLC**  
Tubing and Identification Products

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Fully recovered after heating

## Product Dimensions

Minimum Shrink Temperature: 90 °C

Size	Expanded		Recovered				Standard Spool Length
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Minimum Total Wall Thickness (t)		
	In.	mm	In.	mm	In.	mm	Ft.
<b>Inch Size</b>							
3/64"	0.051	1.3	0.022	0.58	0.013	0.330	500
1/16"	0.070	1.8	0.031	0.79	0.014	0.356	500
3/32"	0.106	2.7	0.046	1.17	0.017	0.432	500
1/8"	0.133	3.4	0.062	1.57	0.017	0.432	500
3/16"	0.192	4.9	0.093	2.36	0.017	0.432	250
1/4"	0.251	6.4	0.125	3.18	0.022	0.559	250
5/16"	0.314	8.0	0.157	4.0	0.022	0.559	250
3/8"	0.374	9.5	0.187	4.75	0.022	0.559	200
1/2"	0.500	12.7	0.250	6.35	0.022	0.559	200
5/8"	0.657	16.7	0.314	8.0	0.027	0.686	200
3/4"	0.751	19.1	0.370	9.35	0.027	0.686	100
1"	1.02	25.7	0.500	12.7	0.030	0.762	100
1-1/4"	1.26	32.2	0.630	15.9	0.034	0.864	100
1-1/2"	1.5	38.1	0.750	19.10	0.034	0.864	100
2"	2.0	51.0	1.0	25.4	0.038	0.965	100
3"	3.0	76.2	1.5	38.1	0.042	1.07	100
4"	4.0	101.6	2.0	50.8	0.046	1.17	100
5"	5.0	127.0	2.5	63.5	0.046	1.17	100
<b>Metric Size</b>							
1.5	0.067	1.7	0.030	0.75	0.014	0.356	Cut to meet your special orders
2.0	0.083	2.1	0.039	1.00	0.017	0.432	
2.5	0.102	2.6	0.050	1.25	0.017	0.432	
3.0	0.122	3.1	0.060	1.50	0.017	0.432	
3.5	0.142	3.6	0.069	1.75	0.017	0.432	
4.0	0.161	4.1	0.079	2.00	0.017	0.432	
5.0	0.201	5.1	0.098	2.50	0.022	0.559	
6.0	0.240	6.1	0.118	3.00	0.022	0.559	
7.0	0.280	7.1	0.138	3.50	0.022	0.559	
8.0	0.319	8.1	0.158	4.00	0.022	0.559	
9.0	0.358	9.1	0.177	4.50	0.022	0.559	
10.0	0.398	10.1	0.197	5.00	0.022	0.559	
11.0	0.437	11.1	0.217	5.50	0.022	0.559	
12.0	0.476	12.1	0.236	6.00	0.022	0.559	
13.0	0.516	13.1	0.256	6.50	0.027	0.686	
14.0	0.555	14.1	0.276	7.00	0.027	0.686	
15.0	0.595	15.1	0.295	7.50	0.027	0.686	
16.0	0.634	16.1	0.315	8.00	0.027	0.686	
18.0	0.713	18.1	0.354	9.00	0.030	0.762	
20.0	0.791	20.1	0.394	10.00	0.030	0.762	
22.0	0.870	22.1	0.433	11.00	0.030	0.762	
24.0	0.949	24.1	0.472	12.00	0.030	0.762	
25.0	0.992	25.2	0.492	12.50	0.034	0.864	
26.0	1.032	26.2	0.512	13.00	0.034	0.864	
28.0	1.110	28.2	0.551	14.00	0.034	0.864	
30.0	1.190	30.2	0.591	15.00	0.034	0.864	
32.0	1.268	32.2	0.630	16.00	0.034	0.864	

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