



# DUNBAR-FFF™ -T3

3:1 SHRINK RATIO, IDENTIFICATION SLEEVE, LADDER FORMAT

## Applications

DUNBAR-FFF™-T3 is a flexible, flame retardant, heat shrinkable polyolefin identification sleeve. It is designed for a wide range of applications, typically printed for wire identification. FFF™-T3 meets the performance requirements of AS23053/5 class 1.



## Features

- ★ Shrink ratio: 67% or more in the radial direction, 5% or less in the axial direction
- ★ 2:1 Shrink ratio available – P/N (FFF™-T2)
- ★ Solid & Perforated In stock for immediate shipments (Yellow and White)
- ★ Continuous operating temperature: - 55°C (-67°F) to 135°C (275°F)
- ★ Printable – Thermal Transfer or Hot Stamp
- ★ Flammability: UL VW-1, CSA OFT
- ★ High resistance to abrasion, chemicals, and oils

## Standard

- ★ AS23053/5 class 1 (Formerly AMS-DTL-23053/5 Class 1)
- ★ UL 224 (File Number: E319303)
- ★ RoHS2 and REACH Compliant

## Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D638	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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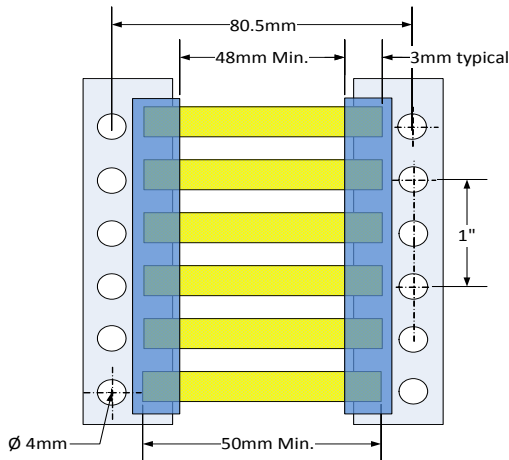
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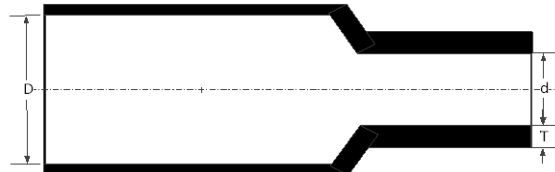


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Expanded as supplied



Fully recovered after heating

## Product Dimensions

Minimum Shrink Temperature: 90°C

Size	Expanded		Recovered				Standard Spool Quantity
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Wall Thickness (min.) (T)		
Inch Size	In.	Mm	In.	mm	In.	mm	Pcs.
1/16"	0.063	1.6	0.021	0.5	0.018	0.46	250 or 2500
3/32"	0.093	2.4	0.031	0.8	0.020	0.51	250 or 2500
1/8"	0.125	3.2	0.042	1.1	0.022	0.55	250 or 2000
3/16"	0.187	4.7	0.062	1.6	0.024	0.61	250 or 2000
1/4"	0.250	6.4	0.083	2.1	0.025	0.65	250 or 1500
3/8"	0.375	9.5	0.125	3.2	0.028	0.71	250 or 1000
1/2"	0.500	12.7	0.166	4.2	0.029	0.73	250 or 500
3/4"	0.750	19.1	0.250	6.4	0.030	0.77	250 or 500
1"	1.00	25.4	0.333	8.5	0.031	0.79	250 or 500
1-1/2"	1.5	38.1	0.500	12.7	0.032	0.82	250
2"	2.0	50.8	0.667	16.9	0.032	0.82	250
3"	3.0	76.2	1.000	25.4	0.033	0.83	250

## Ordering Information:

Example: DUNBAR-FFF-T3-1/4-YELLOW-S1-250-G

"S1" denotes 1 serration in the middle of the marker.

"G" denotes economical "Green" packaging. Lower acquisition cost and lower disposal cost.

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