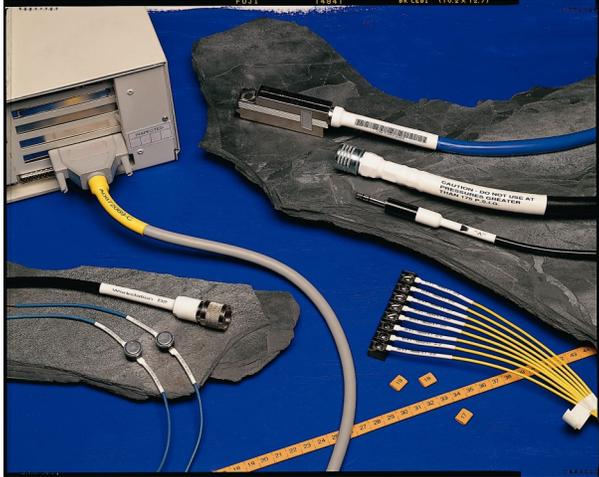




# SM3-12

## 2:1 Shrink Ratio

## Flexible Polyolefin



### Specifications:

SAE AMS-DTL-23053/5, Class 1 & 3 compliant

### Recommended Printer & Ribbon:

SumiMark® Marking System      Models III or IV  
Ribbon                                      SumiMark® SM3

### Print Performance:

Adherence: SAE-AS5942  
MIL-STD-202G, Method 215J  
Store in original packaging

### Product Overview:

SumiMark® SM3-12 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-12 tubing product meets all requirements of SAE AMS-DTL-23053/5, Class 1 & 3. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

### Applications:

- Wire identification
- Wire protection
- Fluid resistance
- Strain relief
- Abrasion protection

### Product Features:

- 2:1 Shrink Ratio
- Operating temperature range  $-55^{\circ}\text{C}$  to  $+135^{\circ}\text{C}$  and up to  $200^{\circ}\text{C}$  for short durations
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- UL recognized
- Colors—white, black, yellow, other colors.



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# SM3-12

## 2:1 Shrink Ratio

### Flexible Polyolefin

#### Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi)	ASTM D 638	1500 min.
Elongation (%)	ASTM D 638	200 min.
Specific gravity	ASTM D 792	1.35 max.
Low temperature flex (-55° C)	AMS-DTL-23053	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Heat resistance (175° C, 168 hrs.)		
Elongation (%)	ASTM D 638	100 min.
Secant modulus (psi)	ASTM D 882	2.5 X 10 <sup>4</sup> max.
Longitudinal change (%)	AMS-DTL-23053	+/- 5
Electrical:		
Dielectric strength (volts/mil)	ASTM D 876	500 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 <sup>14</sup> min.
Chemical:		
Corrosion (175° C, 16 hrs.)	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D 570	0.5 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	1000 min.
Flammability	UL 224 VW-1	Pass
Shrink temperature, nominal		90° C

Specification reference: MIL-S-85848/1

AMS-DTL-23053/5, Class 1 & 3 (2" size does not meet Class 3)

SAE-AS5942 and UL 224 125°C, 600v

File: E48762

CSA

#### Standard Sizes:

Size	ID Min (As Supplied)		ID Max (After Recovery)		Wall Thickness Nom (After Recovery)	
	Inch	MM	Inch	MM	Inch	MM
1/16	.063	1.6	.031	0.8	.017	0.43
3/32	0.93	2.4	.046	1.2	.020	0.51
1/8	.125	3.2	.062	1.6	.020	0.51
3/16	.187	4.8	.093	2.4	.020	0.51
1/4	.250	6.4	.125	3.2	.025	0.64
3/8	.375	9.5	.187	4.8	.025	0.64
1/2	.500	12.7	.250	6.4	.025	0.64
3/4	.750	19.1	.375	9.5	.030	0.76
1	1.00	25.4	.500	12.7	.035	0.89
1 1/2	1.50	38.1	.750	19.1	.040	1.02
2*	2.00	50.8	1.00	25.4	.045	1.14

\* - Size does not meet /5, Class 3 (size not listed on Class 3 size table)

**Standard Colors:** White, Black, Yellow. Other colors available per factory quote and acceptance.

**Standard Package:** Spooled

How to Order:	Type of Material	Size	Color	Packaging
Example:	SM3-12	1/4	White	S