



**SJSTech-Tron** Heat Shrinkable Tubing  
A Context Engineering Product  
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## Heat Shrink Tubing Professional Grade Flexible Flame Retarded Polyolefin\* TT-100

TT-100 is a high performance, multi purpose polyolefin based, heat shrinkable tubing, with excellent electrical, chemical and physical properties. It is designed for a wide range of applications, including military and commercial, and for the consumer/OEM market. It is used extensively for cable and wire harnessing, strain relief, insulation, color-coding, identification and protection against fluids.

### **Material Characteristics:**

- 2:1 Shrink Ratio
- Certified to MIL-DTL-23053/5, Classes 1, 2, and 3
- 7 standard colors: Black (BLK), White (WHT), Red (RED), Yellow (YLW), Blue (BLU), Green (GRN), Clear (CLR). 5 non-standard colors Brown, Purple, Orange, Gray, Green/Yellow
- Shrink temperature of 90° C and operating temperature of -55° to +135° C
- Typical applications include: Insulation, Wire Markers, Wire Bundling
- Mechanical Protection, Color Coding, Lightweight Harnessing, Physical/Electrical Protection of Components, Strain Relief, and Solder Insulation.

### **Order Information**

Ordering Size	Expanded ID Minimum		Recovered ID Maximum		Nominal Recovered Wall	
	Inch	MM	Inch	MM	Inch	MM
3/64	0.046	1.2	0.023	0.6	0.016	0.43
1/16	0.063	1.6	0.031	0.8	0.017	0.43
3/32	0.093	2.4	0.046	1.2	0.020	0.51
1/8	0.125	3.2	0.062	1.6	0.020	0.51
3/16	0.187	4.8	0.093	2.4	0.020	0.52
1/4	0.250	6.4	0.125	3.2	0.025	0.65
3/8	0.375	9.5	0.187	4.7	0.025	0.65
1/2	0.500	12.7	0.250	6.4	0.025	0.65
3/4	0.750	19.1	0.375	9.5	0.030	0.77
1	1.000	25.4	0.750	12.7	0.035	0.89
1 1/2	1.500	38.1	1.000	19.1	0.040	1.00
2	2.00	50.8	1.500	25.4	0.045	1.10

*\*Clear Tubing is not Flame Retarded*

# MEETS OR EXCEEDS INDUSTRY STANDARDS

## TYPICAL FEATURES

1) TT100 is a very flexible, low recovery temperature, flame-retardant\*, heat-shrinkable polyolefin tubing that meets or exceeds industry standards.

2) Low recovery temperature benefits the user in more rapid installation, with less potential damage to heat sensitive component insulation systems.

3) Shrink temperature is 90°C, with an indefinite storage life.

4) Operating temperature range is -55°C to +135°C.

5) TT100 is recommended for all general purpose applications such as insulating, color coding, bundling and light harness jacketing or environmental protection.

PROPERTY (UNITS)	TEST METHOD	TYPICAL VALUE
<b>Physical</b>		
Tensile Strength	ASTM D 638	13 N/mm <sup>2</sup>
Elongation at Break	ASTM D 638	400%
Longitudinal Change	ASTM D 2671	+5%, -5% Maximum
Water Absorption	ASTM D 570	0.15% Maximum
Specific Gravity	ASTM D 792	1.4
<b>Electrical</b>		
Dielectric Strength	ASTM D 2671	25 kV/mm
Volume Resistivity	ASTM D 257	10 @ 14 ohm.cm
<b>Chemical</b>		
Fungus Resistance	MIL-I-7444	Inert
Fluid Resistance	MIL-I-23053/5	Good
Copper Corrosion	ASTM D 2671 B	Good
<b>Thermal</b>		
Continuous Operating Temperature		-55°C to +135°C
Minimum Shrink Temperature		>90°C
Heat Shock 4 hours at 250°C	ASTM D 2671	No dripping, cracking or flowing
Heat Aging 168 hours at 150°C	ASTM D 638	Elongation 300%
Low Temperature Flexibility -55°C	ASTM D 2671C	No cracking
Flammability	UL 224VW I	Pass (colours only)

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