

# CPX 100

INSULATE  
SEAL  
PROTECT

2:1  
SHRINK RATIO



## THIN WALL CROSS-LINKED POLYOLEFIN

FLEXIBLE, MULTI-PURPOSE HEAT SHRINK TUBING

### FEATURES AND BENEFITS

- 2:1 shrink ratio
- Flame retardant (colours only)
- Resistant to common fluids and solvents
- Economical mechanical protection for terminal strain relief and wire bundling
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C
- Standard colors: Black, Red, White, Clear, Blue, Yellow & Green

### STANDARDS

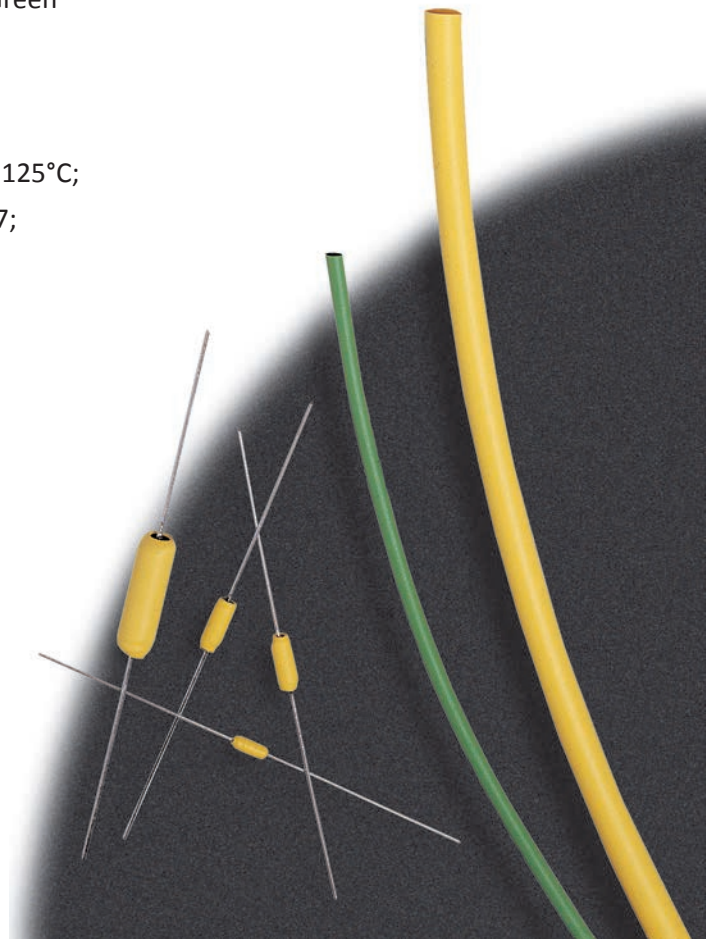
- Meets UL 224, 125°C (colours only); CSA C22.2 No. 198.1, 125°C;  
SAE-AMS-DTL-23053/5, Class 1 and 2, AMS 3636 and 3637;  
DEF STAN 59-97, Issue 3, Type 2a

### TYPICAL APPLICATIONS

- Electrical insulation of wire splices and terminals
- Strain relief of wire terminations
- Protects components from abrasion and fluids

### ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Please specify the product name, color and order reference number. Order Example:  
CPX 100, 0375, black, 500 ft



DIMENSIONS

Order Number	Expanded		Recovered				Lengths	
	Internal Diameter (min.) D		Internal Diameter (max.) d		Wall Thickness (nom.) W			
	mm	in	mm	in	mm	in	m	ft
0047	1.2	3/64	0.6	0.023	0.41	0.016	300	1000
0063	1.6	1/16	0.8	0.031	0.43	0.017	300	1000
0094	2.4	3/32	1.2	0.046	0.51	0.020	300	1000
0125	3.2	1/8	1.6	0.062	0.51	0.020	300	1000
0187	4.8	3/16	2.4	0.093	0.51	0.020	300	1000
0250	6.4	1/4	3.2	0.125	0.64	0.025	150	500
0375	9.5	3/8	4.7	0.187	0.64	0.025	150	500
0500	12.7	1/2	6.4	0.250	0.64	0.025	60	200
0625	16.0	5/8	8.0	0.315	0.76	0.030	60	200
0750	19.0	3/4	9.5	0.375	0.76	0.030	30	100
1000	25.4	1	12.7	0.500	0.89	0.035	30	100
1250	32.0	1 ¼	16.0	0.630	0.89	0.035	30	100
1500	38.1	1 ½	19.0	0.750	1.02	0.040	30	100
2000	50.8	2	25.4	1.000	1.14	0.045	30	100
3000	76.2	3	38.0	1.500	1.27	0.050	15	50
4000	101.6	4	50.8	2.000	1.40	0.055	15	50

TECHNICAL DATA

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL PERFORMANCE	UNITS
<b>PHYSICAL</b>				
Tensile Strength	ASTM D638	1,500 (10.3) minimum	2,453 (16.91)	psi (MPa)
Elongation	ASTM D638	200 minimum	510	percent
Low Temperature Flexibility	4 hrs at -67 °F (-55 °C)	No cracking	No cracking	
Heat Shock	4 hrs at 482 °F (250 °C)	No cracks, flowing or dripping	No cracks, flowing or dripping	
Heat resistance:	168 hrs at 250 °F (121 °C)			
Ultimate elongation	ASTM D412	100 minimum	505	percent
<b>ELECTRICAL</b>				
Dielectric Strength	ASTM D2671	500 (19.7) minimum	1,570 (62)	volts/mil (Kv/mm)
Volume Resistivity	ASTM D876	1 x 10 <sup>14</sup> minimum	6.49 x 10 <sup>14</sup>	Ohm-cm
<b>CHEMICAL</b>				
Corrosion	16 hrs at 347 °F (175 °C)	No corrosion	No corrosion	
Water absorption	24 hrs at 73 °F (23 °C)	0.5 maximum	0.09	percent
Flammability	ASTM D2671, Procedure B	Class 1 - Self extinguishing 1 minute; 25% maximum flag burnt Class 2 - N/A	Pass	
Fluid resistance: (Hydraulic fluid (petroleum base), JP-8, Lubricating oil, 5 percent NaCl, Deicing fluid)	24 hrs immersion at 75 °F (24 °C)			
Tensile strength	ASTM D412	1,000 (6.9) minimum	1,275 (8.8)	psi (MPa)
Dielectric strength	ASTM D2671	400 (15.8) minimum	861 (33.9)	volt/mil (Kv/mm)
Fungus resistance	ASTM G21	No growth	No growth	

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