

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

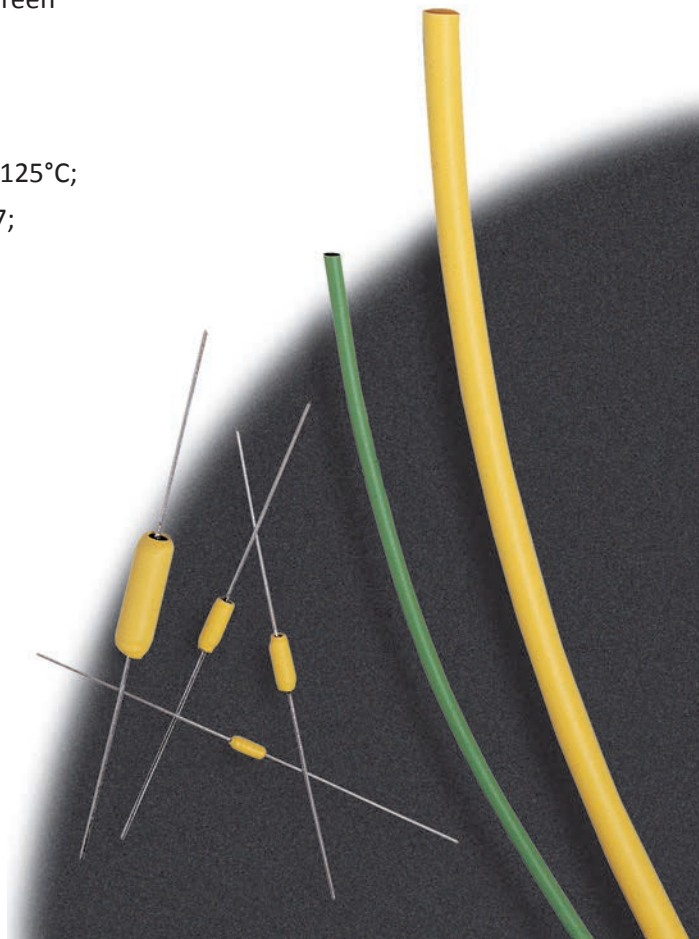
- Meets UL 224, 125°C (colours only); CSA C22.2 No. 198.1, 125°C;
SAE-AMS-DTL-23053/5, Class 1 and 2, AMS 3636 and 3637;
DEF STAN 59-97, Issue 3, Type 2a

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
PHYSICAL				
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
ELECTRICAL				
Dielectric Strength	ASTM D2671	500 (19.7) minimum	1,570 (62)	volts/mil (Kv/mm)
Volume Resistivity	ASTM D876	1 x 10 ¹⁴ minimum	6.49 x 10 ¹⁴	Ohm-cm
CHEMICAL				
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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