

# CPX 100

Thin wall crosslinked polyolefin

Flexible, flame retardent, multi-purpose heat shrink tubing.



## Features and Benefits

- Flame retardant (except clear)
- Resistant to common fluids and solvents
- All Colors Except clear or transparent tubing are UV resistant
- Economical mechanical protection for terminal strain relief and wire bundling
- Shrink ratio: 2:1
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C min.

## Standards

- UL 224 (600 volts, 125°C)
  - UL file # YDPU2.E63390 (Black and Colors only)
- CSA C22.2 No. 198.1, 125°C
  - CSA file # 256317 & 065781\_0\_000 (Black and Colors only)
- SAE-AMS-DTL-23053/5, Class 1 and 2

- Approved to automotive OEM specifications

## Typical Applications

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

## 2:1

Shrink ratio

## -55°C - 135°C (-67°F to 275°F)

Continuous operating temperature

### Markets:

Automotive, Industrial

### Standards:



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# CPX 100

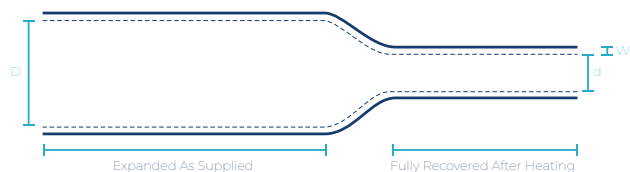
ORDER NUMBER	EXPANDED	RECOVERED		DELIVERY UNITS
	INTERNAL DIAMETER MIN D	INTERNAL DIAMETER MAX D	TOTAL WALL THICKNESS NOM W	LENGTHS
	<i>mm in</i>	<i>mm in</i>	<i>mm in</i>	<i>m ft</i>
0047	1.2 (3/64)	0.6 (3/128)	0.41 (0.016)	300 (1000)
0063	1.6 (1/16)	0.8 (1/32)	0.43 (0.017)	300 (1000)
0094	2.4 (3/32)	1.2 (3/64)	0.51 (0.020)	300 (1000)
0125	3.2 (1/8)	1.6 (1/16)	0.51 (0.020)	300 (1000)
0187	4.8 (3/16)	2.4 (3/32)	0.51 (0.020)	300 (1000)
0250	6.4 (1/4)	3.2 (1/8)	0.64 (0.025)	150 (500)
0375	9.5 (3/8)	4.7 (3/16)	0.64 (0.025)	150 (500)
0500	12.7 (1/2)	6.4 (1/4)	0.64 (0.025)	60 (200)
0625	16.0 (5/8)	8.0 (5/16)	0.76 (0.030)	60 (200)
0750	19.0 (3/4)	9.5 (3/8)	0.76 (0.030)	30 (100)
1000	25.4 (1)	12.7 (1/2)	0.89 (0.035)	30 (100)
1250	32.0 (1 1/4)	16.0 (5/8)	0.89 (0.035)	30 (100)
1500	38.1 (1 1/2)	19.0 (3/4)	1.02 (0.040)	30 (100)
2000	50.8 (2)	25.4 (1)	1.14 (0.045)	30 (100)
3000	76.2 (3)	38.0 (1 1/2)	1.27 (0.050)	15 (50)
4000	101.6 (4)	50.8 (2)	1.40 (0.055)	15 (50)

## Ordering

Select a dimension which will shrink snugly over the application to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
  - Color: Black (BK), red (RD), white (WT), clear (CL), blue (BL), yellow (YL)
  - Length: Standard stick, spool or custom lengths
- Please specify the product name, order number and options you require
- Example: CPX 100, 0375, black, 500 ft

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this data sheet. Subject to modification without prior notice.

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## Technical data

PROPERTY	CURRENT VALUES	TEST METHODS
MATERIAL		
Tensile strength	2,200 psi (15.0 MPa)	ASTM D2671, ISO 37
Elongation	400%	ASTM D2671, ISO 37
Longitudinal change	+/-5%	ASTM D2671
2% Secant modulus	16,000 psi (110 MPa)	ASTM D2671
Specific gravity	1.3 (colours), 0.95 (clear)	ASTM D792, ISO R1183
Restricted shrinkage	No cracking	ASTM D2671
Elongation after heat aging (168 hr at 175°C)	350%	ASTM D2671
Heat shock (4 hr at 250°C)	No cracking or flowing	ASTM D2671
Low temperature flexibility (4 hr at -55°C)	No cracking or flowing	ASTM D2671
Flammability	Flame retardant (except clear)	ASTM D2671, Proc. B
ELECTRICAL		
Dielectric strength	600 V/mil (24 kV/mm)	ASTM D2671, IEC 243
Volume resistivity	10 <sup>16</sup> ohm-cm	ASTM D2671, IEC 2431
Voltage withstand	No breakdown	UL 224, 2500V, 60s
CHEMICAL		
Fluid Resistance: Hydraulic fluid, JP-8, lubricating oil, 5% NaCl, deicing	Good to Excellent	n/a
Copper Corrosion	No Corrosion	ASTM D2671
Water Absorption	0.2%	ASTM D570

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