

CPX 100 EV

Thin wall crosslinked polyolefin bus bar covering

Flexible, durable heat shrink tubing suited for multi-element flexible bus bars and EV power distribution protection.



Features and Benefits

- Flame retardant
- Resistant to common automotive fluids and solvents
- Shrink ratio: 2:1
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C min.

Standards

- Approved to automotive OEM specifications

Typical Applications

- Electrical insulation of bus bars and terminals
- Industry standard orange color to signify vehicle high voltage

2:1

Shrink ratio

-55°C - 135°C (-67°F to 275°F)

Continuous operating temperature

Markets:

Aerospace, Automotive, Defense, Industrial, Consumer electronics

Standards:



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CPX 100 EV

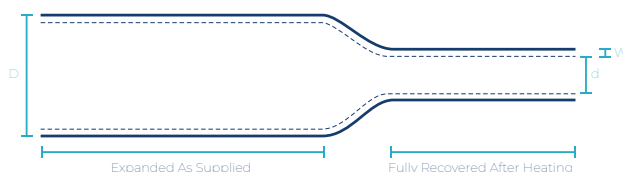
ORDER NUMBER	EXPANDED	RECOVERED		DELIVERY UNITS
	INTERNAL DIAMETER MIN D	INTERNAL DIAMETER MAX D	TOTAL WALL THICKNESS NOM W	LENGTHS
	<i>mm in</i>	<i>mm in</i>	<i>mm in</i>	<i>m ft</i>
0750	19.0 (3/4)	9.5 (3/8)	0.76 (0.030)	30 (100)
1000	25.4 (1)	12.7 (1/2)	0.89 (0.035)	30 (100)

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: Orange
 - Length: Spool or custom lengths
- Please specify the product name, order number and options you require
- Example: CPX 100 EV, 0750, orange, 100ft

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	-20	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 ¹⁶ ohm-cm	ASTM D2671, IEC 2431
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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