

CPX 876

INSULATE
SEAL
PROTECT

2:1
SHRINK RATIO



THIN WALL HIGHLY FLAME RETARDANT CROSS-LINKED POLYOLEFIN

Flexible, highly flame retardant heat shrink tubing, UL VW-1 rated

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Highly flame retardant for use in consumer products
- Low shrink temperature reduces risk of damage to electronic components
- Flexible
- Resistant to common fluids and solvents
- Printable
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 85°C
- Standard colors: Black, Red, White, Blue, Yellow & Green

STANDARDS

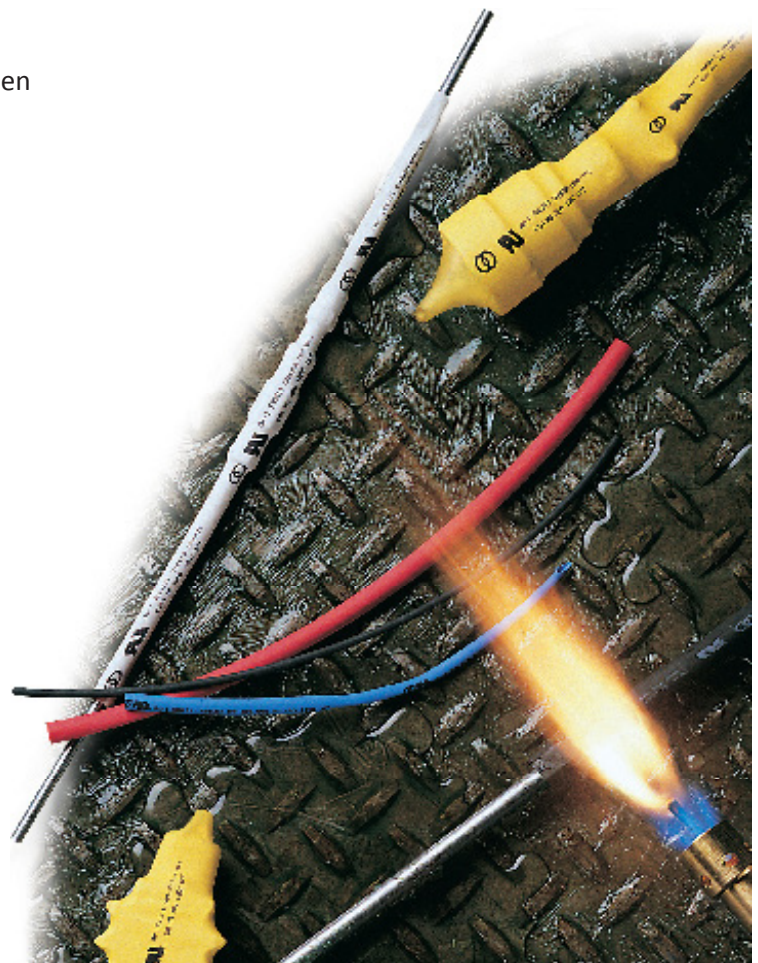
- UL 224 125°C VW-1
- CSA C22.2 No. 198.1 125°C OFT
- SAE-AMS-DTL-23053/5, Class 1 & 3
- DEF STAN 59-97, Issue 3 Type 1a

TYPICAL APPLICATIONS

- Strain relief of wire connections
- Insulation of in-line splices
- Protection and bundling of small harnesses

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 and order reference number. Order Example:
CPX 876, 0125, black, unprinted, 1,000 ft lengths



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 | 0.45 | 0.018 | 300 | 1,000 |
| 0062 | 1.6 | 1/16 | 0.8 | 0.031 | 0.45 | 0.018 | 300 | 1,000 |
| 0093 | 2.4 | 3/32 | 1.2 | 0.046 | 0.51 | 0.020 | 300 | 1,000 |
| 0125 | 3.2 | 1/8 | 1.6 | 0.062 | 0.51 | 0.020 | 300 | 1,000 |
| 0187 | 4.8 | 3/16 | 2.4 | 0.093 | 0.51 | 0.020 | 300 | 1,000 |
| 0250 | 6.4 | 1/4 | 3.2 | 0.125 | 0.64 | 0.025 | 150 | 500 |
| 0375 | 9.5 | 3/8 | 4.8 | 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 | 0.64 | 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 | 1¼ | 16.0 | 0.630 | 0.89 | 0.040 | 30 | 100 |
| 1500 | 38.1 | 1½ | 19.0 | 0.750 | 1.02 | 0.040 | 30 | 100 |
| 2000 | 50.8 | 2 | 25.4 | 1.000 | 1.14 | 0.060 | 30 | 100 |
| 3000 | 76.2 | 3 | 38.1 | 1.500 | 1.27 | 0.060 | 15 | 50 |
| 4000 | 101.6 | 4 | 50.8 | 2.000 | 1.40 | 0.060 | 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 | Self extinguishing 1 minute; 25% maximum flag burnt | 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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