

## CDW (Cary Dual Wall)

Cary Industries CDW is a crosslinked polyolefin heat shrinkable tubing with an internal meltable sealant. When heated above 120C the tubing will shrink to approximately 33% of its original diameter. As it shrinks, the internal sealant melts and provides a moisture-proof seal for encapsulation of wires, splices, breakouts and components. This tubing is especially of value for applications as a moisture barrier in high humidity and corrosive environments.

| Ordering Size | Minimum Expanded ID |       | Maximum Recovered ID |      | Nominal Recovered Wall |     | 4' length Ft/package |
|---------------|---------------------|-------|----------------------|------|------------------------|-----|----------------------|
|               | Inch                | mm    | Inch                 | mm   | Inch                   | mm  |                      |
| 1/8"          | .125                | 3.2   | .023                 | 0.6  | .038                   | 1.0 | 100                  |
| 3/16"         | .187                | 4.7   | .060                 | 1.5  | .045                   | 1.2 | 100                  |
| 1/4"          | .250                | 6.4   | .080                 | 2.0  | .047                   | 1.3 | 100                  |
| 3/8"          | .375                | 9.5   | .135                 | 3.4  | .050                   | 1.3 | 100                  |
| 1/2"          | .500                | 12.7  | .195                 | 5.0  | .055                   | 1.4 | 100                  |
| 3/4"          | .750                | 19.1  | .313                 | 8.0  | .065                   | 1.7 | 100                  |
| 1"            | 1.000               | 25.4  | .400                 | 10.2 | .075                   | 1.9 | 100                  |
| 1-1/4"        | 1.250               | 31.8  | .500                 | 12.7 | .100                   | 2.5 | 40                   |
| 1-1/2"        | 1.500               | 38.1  | .600                 | 15.2 | .120                   | 3.0 | 32                   |
| 2"            | 2.050               | 52.1  | .750                 | 19.1 | .080                   | 2.0 | 4                    |
| 2.75"         | 2.750               | 69.9  | 1.000                | 25.4 | .080                   | 2.0 | 4                    |
| 3.5"          | 3.500               | 88.9  | 1.18                 | 30.0 | .095                   | 2.4 | 4                    |
| 4.7"          | 4.700               | 119.4 | 1.57                 | 39.9 | .105                   | 2.7 | 4                    |

Mil-I-23053/4 (1/8" - 1-1/2") Standard Colors: 1/8"-1": Black, Clear, Red, White, Yellow, Blue available by quote.  
 1-1/4"-4.7" : Black. Available in 4ft lengths. 1/8" through 3/4" available spooled in black only.

### CDW Technical Data

| Physical                                      | Test Method         | Typical Value                        |
|---|---------------------|--------------------------------------|
| Tensile Strength                              | ASTM-D2671          | 2300 PSI                             |
| Elongation                                    | ASTM-D2671          | 400%                                 |
| Secant Modulus (2% strain)                    | ASTM-D2671          | 10500 PSI                            |
| Specific Gravity                              | ASTM-D792           | 1.10                                 |
| Continuous Operating Temp                     | -                   | -55C (-67F) to 110C (230F)           |
| Minimum Shrink Temp                           | -                   | 120C (248F)                          |
| Longitudinal Change on Recovery               | ASTM-D2671 M23053/4 | +1,-.5(%)                            |
| Heat Resistant Properties<br>(168 Hrs @ 175C) | M23053/4            | No cracking or flowing of outer wall |
| Heat Shock (4 Hrs @ 250C)                     | ASTM-D2671 M23053/4 | No cracking or flowing of outer wall |
| Cold impact (-55C)                            | M23053/4            | No cracking                          |
| Flammability                                  | ASTM-D2671 M23053/4 | Flame Retardant (outer wall)         |

### Electrical

|                     |            |               |
|---------------------|------------|---------------|
| Dielectric Strength | ASTM-D2671 | 600 V/Mil     |
| Volume Resistivity  | ASTM-D2671 | 10(16) ohm-cm |

### Chemical

|                   |           |                   |
|-------------------|-----------|-------------------|
| Fluid Resistance  | M23053/4  | Good to excellent |
| Copper Corrosion  | M23053/4  | No corrosion      |
| Water Absorption  | ASTM-D570 | 0.2%              |
| Fungus Resistance | ASTM-G21  | No growth         |

\*Above values are typical performance data and should not be used as design data.

### Mil-Spec Information

M23053/4-

|     |      |     |        |
|-----|------|-----|--------|
| 301 | 1/8" | 304 | 1"     |
| 302 | 1/4" | 305 | 1-1/2" |
| 303 | 1/2" |     |        |