

## Shrink-Kon® Heat-Shrinkable Tubing

Custom order lengths for those special jobs!

### Custom-Cut Length of Bulk Packaging — Thin-Wall Tubing

To best meet your requirements for thin-wall heat-shrinkable tubing, Thomas & Betts welcomes the opportunity to cut bulk reels of tubing. Minimum order requirement is one standard bulk reel, and multiples thereof. See table for bulk reel length by size. Tubing cannot be cut smaller than 1/8".

When ordering custom-cut lengths of tubing, order by piece, not by length.

To determine the minimum number of pieces to order, simply figure how many pieces of a specific length of tubing are required to make use of a complete bulk reel. See examples to convert bulk reels to cut pieces.



| SERIES        | BULK REEL LENGTH (FT.) | SERIES        | BULK REEL LENGTH (FT.) |
|---------------|------------------------|---------------|------------------------|
| CP063 = 1/16" | 1,000                  | CP0375 = 3/4" | 500                    |
| CP093 = 1/8"  | 1,000                  | CP0500 = 1/2" | 400                    |
| CP0125 = 1/4" | 1,000                  | CP0750 = 3/4" | 300                    |
| CP0187 = 3/8" | 1,000                  | CP01000 = 1"  | 300                    |
| CP0250 = 1/2" | 1,000                  |               |                        |

Minimum order quantity for cut pieces.

#### Example 1

If a bulk length of tubing is 1,000' and the desired length of each individual piece is 6", the minimum order requirement is 2,000 pieces.

Given (length of reel).....1,000'  
 Convert to inches by multiplying by 12.....12 x 1,000  
 Length of reel in inches.....= 12,000  
 Divide by desired length.....12,000 ÷ 6  
 Total number of 6" pieces  
 in a 1,000' reel (Minimum Order).....= 2,000

#### Example 2

If a bulk reel of tubing is 400' and the desired length of each individual piece is 2", the minimum order requirement is 2,400 pieces.

Given (length of reel).....400'  
 Convert to inches by multiplying by 12.....12 x 400  
 Length of reel in inches.....= 4,800  
 Divide by desired length.....4,800 ÷ 2  
 Total number of 2" pieces  
 in a 400' reel (Minimum Order).....= 2,400

Contact tech services for pricing and availability on cut pieces.

#### CUT PIECE CATALOG NO. CONSTRUCTION

| THINWALL SERIES | MINIMUM EXPANDED I.D. (IN.)                                                                                                     | COLOR                                                                                                                            | LENGTH (IN.)                                    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| CP0 =           | 63 = .063<br>93 = .093<br>125 = .125<br>187 = .187<br>250 = .250<br>375 = .375<br><br>500 = .500<br>750 = .750<br>1,000 = 1.000 | 0 = Black<br>C = Clear<br>2 = Red<br>4 = Yellow<br>5 = Green<br>6 = Blue<br>8 = Gray<br>9 = White<br>S = Green & Yellow Striped* | XXXX — 4 digits specify length of cut in inches |

Example: CP0 + 125 + 2 + 1.500 = CP0125-2-1.500  
 CP0 Thinwall Shrink, size 125 (.125"), red color, 1.5" long

\*Contact customer service for bulk reel quantity.

#### Thin-Wall Tubing Specifications

| PROPERTY                                           | TEST METHOD                       | TYPICAL PERFORMANCE            |
|----------------------------------------------------|-----------------------------------|--------------------------------|
| <b>Physical</b>                                    |                                   |                                |
| • Tensile Strength                                 | ASTM D2671, ISO 37                | 2,200 psi (15.0 MPa)           |
| • Elongation                                       | ASTM D2671, ISO 37                | 400%                           |
| • Longitudinal Change                              | ASTM D2671                        | +1%, -10%                      |
| • 2% Secan Modulus                                 | ASTM D2671                        | 16,000 psi (110 MPa)           |
| • Specific Gravity                                 | ASTM D792, ISO/R1183              | 1.3" (colors) .95" (clear)     |
| • Restricted Shrinkage                             | ASTM D2671                        | No Cracking                    |
| • Elongation after Heat Aging (168 hrs. at 175° C) | ASTM D2671                        | 350%                           |
| • Heat Shock (4 hrs. at 250° C)                    | ASTM D2671                        | No Cracking or Flowing         |
| • Low-Temperature Flexibility (4 hrs. at -55° C)   | ASTM D2671                        | No Cracking or Splitting       |
| • Flammability                                     | ASTM D2671                        | Flame Retardant (except Clear) |
| <b>Electrical</b>                                  |                                   |                                |
| • Dielectric Strength                              | ASTM D2671, IEC 243               | 600V/Mil (24kV/mm)             |
| • Volume Resistivity                               | ASTM D2671                        | 1016 Ω HM-CM                   |
| <b>Chemical</b>                                    |                                   |                                |
| • Fluid Resistance                                 | MIL-DTL-23053/5, ISO 1817, ISO 37 | Good to Excellent              |
| • Copper Corrosion                                 | ASTM D2671                        | No Corrosion                   |
| • Water Absorption                                 | ASTM D570                         | .2%                            |
| • Fungus Resistance                                | ASTM G21                          | No Growth                      |

## Shrink-Kon® Heat-Shrinkable Tubing

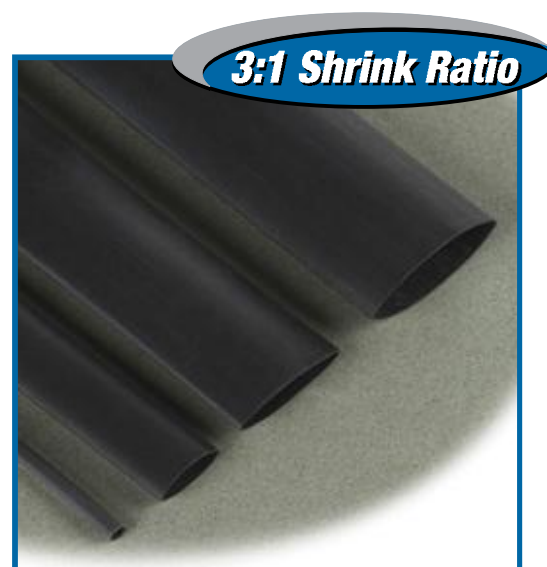
### CPO-A Series — Thin-Wall, Adhesive Lined

- Adhesive lined for moisture-proof environmental seal
- High 3:1 shrink ratio for covering irregularly shaped objects
- Continuous operating temperature: -55° C to 110° C
- Shrink temperature 120° C

#### CPO-A Series Thin-Wall Heat-Shrinkable Tubing

| CAT. NO.     | MIN.<br>EXPANDED<br>I.D. (IN.) | MAX<br>RECOVERED<br>I.D. (IN.) | NOMINAL<br>RECOVERED<br>WALLED (IN.) | CODE CABLE<br>SIZE | STANDARD<br>LENGTH (IN.) | STD. PKG.<br>QTY. |
|--------------|--------------------------------|--------------------------------|--------------------------------------|--------------------|--------------------------|-------------------|
| CPO-A-125-48 | .13                            | .02                            | .04                                  | #24-#30 AWG        | 48                       | 25                |
| CPO-A-187-48 | .18                            | .06                            | .05                                  | #14-#22 AWG        | 48                       | 25                |
| CPO-A-250-48 | .25                            | .08                            | .05                                  | #10-#22 AWG        | 48                       | 25                |
| CPO-A-375-48 | .38                            | .14                            | .05                                  | #6-#16 AWG         | 48                       | 25                |
| CPO-A-500-48 | .50                            | .19                            | .07                                  | #2-#12 AWG         | 48                       | 25                |
| CPO-A-750-48 | .75                            | .31                            | .07                                  | 3/0-#4 AWG         | 48                       | 25                |

**Note:** Non-standard colors, sizes and lengths available subject to factory quotation.  
Standard color: Black



Wire Termination — Sta-Kon® Wire Termination & Insulation

#### CPO-A Series Specifications

| PROPERTY                                            | TEST METHOD          | TYPICAL PERFORMANCE        | PROPERTY              | TEST METHOD                          | TYPICAL PERFORMANCE |
|-----------------------------------------------------|----------------------|----------------------------|-----------------------|--------------------------------------|---------------------|
| <b>Physical</b>                                     |                      |                            | <b>Electrical</b>     |                                      |                     |
| • Tensile Strength                                  | ASTM D2671, ISO 37   | 2200 psi (15.0 MPa)        | • Dielectric Strength | ASTM D2671, IEC 243                  | 600V/Mil (24kV/mm)  |
| • Elongation                                        | ASTM D2671, ISO 37   | 400%                       | • Volume Resistivity  | ASTM D2671                           | 1016 ohm-cm         |
| • Heat Shock (4 hrs. at 250° C)                     | ASTM D2671           | No Cracking or Flowing     | <b>Chemical</b>       |                                      |                     |
| • Longitudinal Change                               | ASTM D2671           | ±5%                        | • Fluid Resistance    | MIL-DTL-23053/4,<br>ISO 1817, ISO 37 | Good to Excellent   |
| • Low-Temperature Flexibility<br>(4 hrs. at -55° C) | ASTM D2671           | No Cracking                | • Fungus Resistance   | ASTM G21                             | No Growth           |
| • Specific Gravity                                  | ASTM D792, ISO R1183 | 1.1                        | • Copper Corrosion    | ASTM D2671                           | No Corrosion        |
| • 2% Secant Modulus                                 | ASTM 2671            | 1600 psi (110 MPa)         | • Water Absorption    | ASTM D570                            | .2%                 |
| • Heat-Resistant Properties<br>(168 hrs. at 175° C) | MIL-DTL-23053/4      | 240%                       |                       |                                      |                     |
| • Flammability                                      | ASTM D2671           | Moderately Flame Retardant |                       |                                      |                     |

# Mouser Electronics

Authorized Distributor

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