

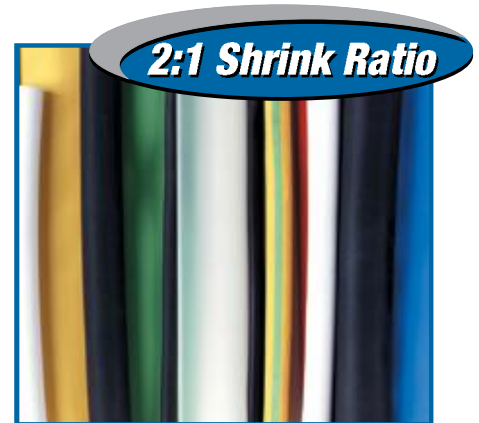
Shrink-Kon® Heat-Shrinkable Tubing

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.)
CPO63 = 1/16"	1,000	CPO375 = 3/4"	500
CPO93 = 1/8"	1,000	CPO500 = 1/2"	400
CPO125 = 1/4"	1,000	CPO750 = 3/4"	300
CPO187 = 3/8"	1,000	CPO1000 = 1"	300
CPO250 = 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.)
CPO =	63 = .063 93 = .093 125 = .125 187 = .187 250 = .250 375 = .375 500 = .500 750 = .750 1,000 = 1.000	0 = Black C = Clear 2 = Red 4 = Yellow 5 = Green 6 = Blue 8 = Gray 9 = White S = Green & Yellow Striped*	XXXX — 4 digits specify length of cut in inches

Example: CPO + 125 + 2 + 1.500 = CPO125-2-1.500
 CPO Thinwall Shrink, size 125 (.125"), red color, 1.5" long

*Contact customer service for bulk reel quantity.

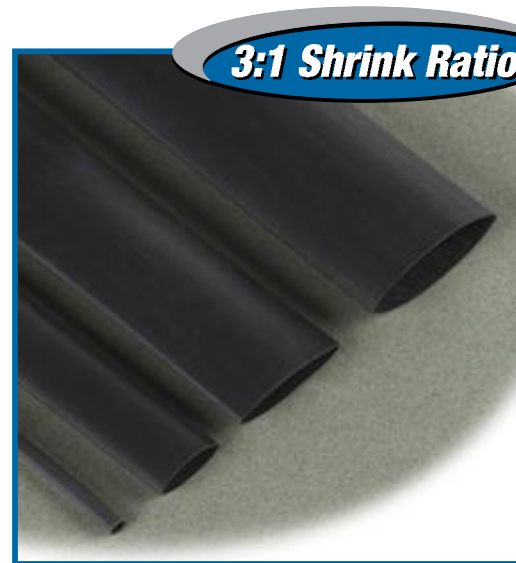
Thin-Wall Tubing Specifications

PROPERTY	TEST METHOD	TYPICAL PERFORMANCE
Physical		
• 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)
Electrical		
• Dielectric Strength	ASTM D2671, IEC 243	600V/Mil (24kV/mm)
• Volume Resistivity	ASTM D2671	1016 Ω HM-CM
Chemical		
• 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



Wire Termination — Sta-Kon® Wire Termination & Insulation

CPO-A Series Thin-Wall Heat-Shrinkable Tubing

CAT. NO.	MIN. EXPANDED I.D. (IN.)	MAX RECOVERED I.D. (IN.)	NOMINAL RECOVERED WALLED (IN.)	CODE CABLE SIZE	STANDARD LENGTH (IN.)	STD. PKG. 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*

CPO-A Series Specifications

PROPERTY	TEST METHOD	TYPICAL PERFORMANCE	PROPERTY	TEST METHOD	TYPICAL PERFORMANCE
Physical			Electrical		
• 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	Chemical		
• Longitudinal Change	ASTM D2671	±5%	• Fluid Resistance	MIL-DTL-23053/4, ISO 1817, ISO 37	Good to Excellent
• Low-Temperature Flexibility (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 (168 hrs. at 175° C)	MIL-DTL-23053/4	240%			
• Flammability	ASTM D2671	Moderately Flame Retardant			

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