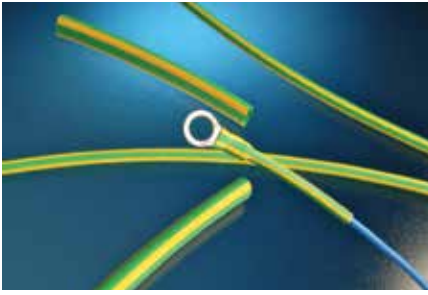


# FIT<sup>®</sup> Heat-Shrink Tubing





## Heat-Shrink Tubing

Material	Purpose	UL VW-1	Resistance			Flexibility	Operating Temperature	Shrink Ratio	FIT Family
			Chemical	Heat	Abrasion				
<b>Single-Wall Irradiated Polyolefin for General-Purpose Use</b>									
Thin-wall irradiated polyolefin	LSZH: reduced smoke generation and gas emission Low outgassing	✓		✓		✓	-55 to +105°C	2:1	<b>FIT-221L</b>
Irradiated polyolefin	Variety of shrink-ratios	✓		✓			-55 to +135°C	2:1	<b>FIT-221</b>
							-55 to +135°C	4:1	<b>FIT-421</b>
Flame-retardant irradiated polyolefin	Low shrink temp	✓		✓			-55 to +135°C	2:1	<b>FIT-221V</b>
							-55 to +135°C	3:1	<b>FIT-321V</b>
Irradiated polyolefin	600V ground lead identification	✓		✓			-55 to +135°C	2:1	<b>FIT-260</b>
Semi-rigid irradiated polyolefin	30% stronger 25% stiffer than standard polyolefin	✓	✓		✓		-55 to +135°C	2:1	<b>FIT-295</b>
<b>Dual-Wall Polyolefin for Additional Sealing</b>									
Surface irradiated, dual extruded	Meltable inner wall, no adhesive		✓		✓		-55 to +125°C	2.5:1	<b>FIT-300</b>
Bonding, thermoplastic adhesive lined	Bonds to most materials; high voltage (2kV at 90°C continuous)		✓	✓	✓		-55 to +110°C	3:1	<b>FIT-700</b>
Bonding, adhesive lined	Water and corrosion protection		✓	✓	✓		-55 to +125°C	3:1	<b>FIT-321</b>
							-55 to +90°C	5.6:1	<b>FIT-621</b>
							-55 to +125°C	2:1	<b>FIT-750</b>
<b>Special-Application Tubing</b>									
Irradiated PVC	Low shrink temp; 30% stronger than standard polyolefin	✓					-20 to +105°C	2:1	<b>FIT-105</b>
Irradiated PVDF	High shrink temp; 3x tensile strength of standard polyolefin	✓	✓	✓	✓		-55 to +150°C	2:1	<b>FIT-350</b>
FEP	High shrink temp; thin wall thickness		✓				-75 to +200°C	1.2:1	<b>FIT-400</b>
PTFE	High shrink temp; thin wall thickness		✓				-75 to +260°C	1.5:1	<b>FIT-500</b>
Chlorinated polyolefin	Oil resistant	✓		✓	✓		-75 to +121°C	2:1	<b>FIT-600</b>
Flexible fluoroelastomer	High shrink temp		✓			✓	-40 to +200°C	2:1	<b>FIT-650</b>
Polyethylene/polyester	Resists harsh environments				✓	✓	-40 to +125°C	2:1	<b>FIT-FABRIC</b>
Irradiated silicone rubber	Pliable	✓		✓	✓	✓	-50 to +200°C	1.7:1	<b>FIT-FLEX</b>
Irradiated PVDF	Transparent after shrink; 2x tensile strength of standard polyolefin	✓	✓	✓			-55 to 150°C	2:1	<b>FIT-CLEAR</b>

# FIT<sup>®</sup>-221L LSZH Heat-Shrink Tubing

## Specifications

### Operating Temperature

- -55°C to +125°C (UL)

### Shrink Temperature

- 100°C min.
- 110°C full recovery

### Material

- Cross-linked polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: -10% to 0%
- Flame retarded

### Chemical Properties

- Corrosive effect: none
- Water absorption: 0.7% max.
- Low outgassing: Meets NASA's definition of low outgassing with TML of 1.0% and CVCM of less than 0.01%
- Lead free
- Halogen free
- Antimony free

### Electrical Properties

- 600 V (UL)
- Volume resistivity: 1014 ohm-cm

### Approvals

- UL 224
- UL VW-1

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Feet	m
<b>FIT-221L-3/64</b>	0.046	1.17	0.023	0.58	0.016	0.41	1000	305
<b>FIT-221L-1/16</b>	0.063	1.60	0.031	0.79	0.017	0.43	1000	305
<b>FIT-221L-3/32</b>	0.093	2.36	0.046	1.17	0.020	0.51	500	152
<b>FIT-221L-1/8</b>	0.125	3.18	0.062	1.57	0.020	0.51	200	60.9
<b>FIT-221L-3/16</b>	0.187	4.75	0.093	2.36	0.020	0.51	500	152
<b>FIT-221L-1/4</b>	0.250	6.35	0.125	3.18	0.025	0.64	200	60.9
<b>FIT-221L-3/8</b>	0.375	9.53	0.187	4.75	0.025	0.64	200	60.9
<b>FIT-221L-1/2</b>	0.500	12.70	0.250	6.35	0.025	0.64	200	60.9
<b>FIT-221L-3/4</b>	0.750	19.05	0.375	9.53	0.030	0.76	200	60.9
<b>FIT-221L-1IN</b>	1.000	25.40	0.500	12.70	0.035	0.89	200	60.9

## FIT-FILL Adhesive

A unique adhesive filler, FIT-FILL is amber bead-like balls of adhesive that are ideal for use when additional adhesive is needed, or when the tubing does not effectively cover the desired locations. FIT-FILL is an ideal complement to FIT heat-shrink tubing for applications involving multiple wires in a tubing array, where the tubing's inner adhesive does not touch the inner wires. FIT-FILL aids in creating a better tubing-to-cable seal to prevent water entry, while providing extra protection to maintain the integrity of the cable.

### Part No.

- FITFILL1

### Material

- Modified Polyamide

### Color

- Amber

### Dimensions

- ID: 0.138" (3.51 mm)
- OD: 0.295" (7.49 mm)
- Opening: 0.055" (1.40 mm)
- Length: 0.197" (5 mm)

### Operating Temperature

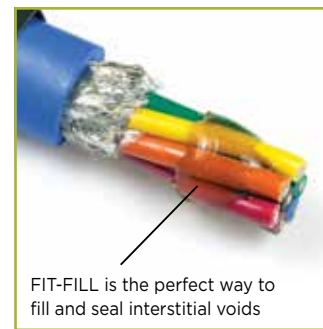
- -10°C to 105°C

### Shrink Temperature

- 90°C

### Availability

- Packs of 1000

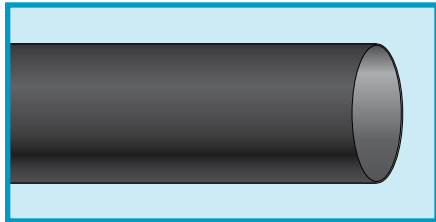


**AlphaWire**

*Cables you trust. Service you deserve.*

# Heat-Shrink Tubing

FIT®-105 Heat-Shrink Tubing  
2:1 Shrink Ratio, Irradiated PVC



**AMS DTL-23053/2 Class 1**  
(except longitudinal shrinkage)  
**UL 224 VW-1**  
**CSA 198**

- Low shrink temperature
- Fast recovery time
- 30% stronger than standard polyolefin
- Low water absorption
- UV resistant

### Operating Temperature

- -20°C to +105°C

### Shrink Temperature

- 100°C min.
- 105°C full recovery

### Material

- Irradiated PVC

### Color

- Black

### Physical Properties

- Tensile strength: 3000 psi (20.68 N/mm<sup>2</sup>)
- Elongation: 300% min
- Longitudinal change: +1%/-25%
- Specific gravity: 1.32
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max.
- Lead free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 1083 V/mil (426.3 kV/cm)
- Volume resistivity: 10<sup>12</sup> ohm-cm

### Availability

See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
<b>FIT-105-3/64</b>	0.046	1.17	0.023	0.58	0.020	0.51	25, 100, 500, 1000	7.6, 30.5, 152, 305
<b>FIT-105-1/16</b>	0.062	1.57	0.031	0.79	0.020	0.51	25, 100, 500, 1000	7.6, 30.5, 152, 305
<b>FIT-105-3/32</b>	0.093	2.36	0.046	1.17	0.020	0.51	25, 100, 1000	7.6, 30.5, 305
<b>FIT-105-1/8</b>	0.125	3.18	0.062	1.57	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
<b>FIT-105-3/16</b>	0.187	4.75	0.093	2.36	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
<b>FIT-105-1/4</b>	0.250	6.35	0.125	3.18	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
<b>FIT-105-3/8</b>	0.375	9.53	0.187	4.75	0.030	0.76	25, 100, 500	7.6, 30.5, 152
<b>FIT-105-1/2</b>	0.500	12.70	0.250	6.35	0.030	0.76	25, 100, 250	7.6, 30.5, 76.2
<b>FIT-105-3/4</b>	0.750	19.05	0.375	9.53	0.035	0.89	25, 100, 250	7.6, 30.5, 76.2
<b>FIT-105-1IN</b>	1.000	25.40	0.500	12.70	0.040	1.02	25, 100, 250	7.6, 30.5, 76.2
<b>FIT-105-1-1/2</b>	1.500	38.10	0.750	19.05	0.045	1.14	25, 100	7.6, 30.5

### Packaged Assortments

Assorted sizes of 6”  
(15 cm) lengths

#### FIT-105-MS-1

Contents	Tubing Size		Quantity
	Inch	mm	
<b>FIT-105-3/64</b>	0.046	1.17	10
<b>FIT-105-1/16</b>	0.062	1.57	10
<b>FIT-105-3/32</b>	0.093	2.36	10
<b>FIT-105-1/8</b>	0.125	3.18	10
<b>FIT-105-3/16</b>	0.187	4.75	10
<b>FIT-105-1/4</b>	0.250	6.35	10

#### FIT-105-MS-2

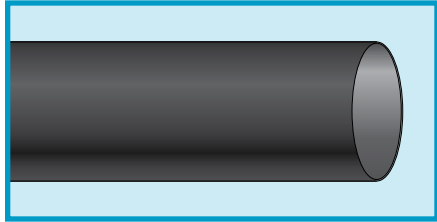
Contents	Tubing Size		Quantity
	Inch	mm	
<b>FIT-105-3/8</b>	0.375	9.53	10
<b>FIT-105-1/2</b>	0.500	12.70	10
<b>FIT-105-3/4</b>	0.750	19.05	10
<b>FIT-105-1 IN</b>	1.000	25.40	10



# Heat-Shrink Tubing

## FIT®-221 Heat-Shrink Tubing

### 2:1 Shrink Ratio, XLPO



**AMS-DTL-23053/5 Class 1  
(except clear)**

**AMS-DTL-23053/5 Class 2  
(clear)**

**UL 224 (except clear)**

**CSA 198 (except clear)**

- Excellent general-purpose tubing
- Low water absorption
- UV resistant (black only)

#### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

#### Shrink Temperature

- 90°C min.
- 121°C full recovery

#### Material

- Cross-linked polyolefin

#### Color

- Black, white, red, yellow, blue, green, clear\*

\*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

#### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±5%

- Specific gravity: 1.35 (colors)/1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- Lead free

#### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

#### Availability

See table, next page

Spools may contain multiple lengths

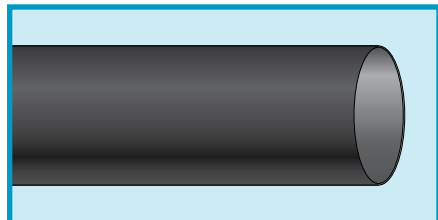
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221-1IN	1.000	25.40	0.500	12.70	0.035	0.89
FIT-221-1-1/2	1.500	38.10	0.750	19.05	0.040	1.02
FIT-221-2IN	2.000	50.80	1.000	25.40	0.045	1.14
FIT-221-3IN	3.000	76.20	1.500	38.10	0.050	1.27
FIT-221-4IN	4.000	101.60	2.000	50.80	0.055	1.40



# Heat-Shrink Tubing

FIT®-221 Heat-Shrink Tubing

2:1 Shrink Ratio, XLPO



**AMS-DTL-23053/5 Class 1**  
(except clear)

**AMS-DTL-23053/5 Class 2**  
(clear)

**UL 224** (except clear)

**CSA 198** (except clear)

## Availability

Part No.	Spools		Qty, Cut Pieces at Length			
	Ft	m	4 ft (1.2 m)	6" (152 mm)	1" (25.4 mm)	0.5" (12.7 mm)
FIT-221-3/64	1000*	305*	25	40	1000	1000
FIT-221-1/16	70, 100*, 1000	21.3, 30.5*, 305	25	36	1000	1000
FIT-221-3/32	65, 100*, 500	19.8, 30.5*, 152	25	32	1000	1000
FIT-221-1/8	60, 100*, 500	18.2, 30.5*, 152	25	28	1000	1000
FIT-221-3/16	50, 100*, 500	15.2, 30.5*, 152	25	24	1000	1000
FIT-221-1/4	40, 100*, 250	12.2, 30.5, 76.2*	25	20	1000	1000
FIT-221-3/8	35, 50*, 200	10.6, 15.2*, 60.9	25	16	1000	1000
FIT-221-1/2	32, 50*, 150	9.7, 15.2*, 45.7	5	14	—	—
FIT-221-3/4	24, 50*, 250	7.3, 15.2*, 76.2	5	12	—	—
FIT-221-1IN	16, 50*, 250	4.8, 15.2, 76.2	5	8	—	—
FIT-221-1-1/2	125*	38.1*	5	5	—	—
FIT-221-2IN	125*	38.1*	5	3	—	—
FIT-221-3IN	100*	30.5*	2	2	—	—
FIT-221-4IN	50*	15.2*	2	—	—	—

\*Black and clear tubing only.

Spools may contain multiple lengths.

## Packaged Assortments

Assorted sizes of 6" (152 mm) lengths

Each length is size identified.

**FIT-221-MS-1** Assorted colors: Black, blue, red, green, yellow

Contents	Tubing Size		Quantity
	Inch	mm	
<b>FIT-221-3/64</b>	0.046	1.17	6
<b>FIT-221-1/16</b>	0.063	1.60	6
<b>FIT-221-3/32</b>	0.093	2.36	6
<b>FIT-221-1/8</b>	0.125	3.18	6
<b>FIT-221-3/16</b>	0.187	4.75	6

**FIT-221-MS-2** Assorted colors: Black, blue, red, yellow

Contents	Tubing Size		Quantity
	Inch	mm	
<b>FIT-221-1/4</b>	0.250	6.35	4
<b>FIT-221-3/8</b>	0.375	9.53	4
<b>FIT-221-1/2</b>	0.500	12.70	4
<b>FIT-221-3/4</b>	0.750	19.05	4

## FIT-221 Kits

### FIT-KIT-221BK

Colors: Black

Contents	Tubing Size		Quantity
	Inch	mm	
<b>FIT-221-3/16</b>	0.187	4.75	25
<b>FIT-221-1/4</b>	0.250	6.35	20
<b>FIT-221-3/8</b>	0.375	9.53	15
<b>FIT-221-1/2</b>	0.500	12.70	10
<b>FIT-221-3/4</b>	0.750	19.05	6
<b>FIT-221-1IN</b>	1.000	25.40	4

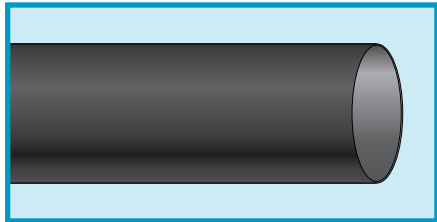
**FIT-KIT-221C** Assorted colors: Black, blue, red, white, green, yellow, clear

Contents	Tubing Size		Quantity	
	Inch	mm	Each Color	Total
<b>FIT-221-3/32</b>	0.093	2.36	4	28
<b>FIT-221-1/8</b>	0.125	3.18	3	21
<b>FIT-221-3/16</b>	0.187	4.75	3	21
<b>FIT-221-1/4</b>	0.250	6.35	3	21
<b>FIT-221-3/8</b>	0.375	9.53	2	14
<b>FIT-221-1/2</b>	0.500	12.70	2	14



# Heat-Shrink Tubing

FIT®-221B Heat-Shrink Tubing  
2:1 Shrink Ratio, XLPO, Bulk Packaging



**AMS-DTL-23053/5 Class 1 (except clear)**  
**AMS-DTL-23053/5 Class 2 (clear)**  
**UL 224 (except clear)**  
**CSA 198 (except clear)**

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature

- 90°C min.
- 121°C full recovery

### Material

- Cross-linked polyolefin

### Colors

- Black, blue, clear\*

\*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±5%

- Specific gravity: 1.35 (colors)/1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- Lead free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

### Availability

See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221B-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221B-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221B-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221B-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221B-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221B-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221B-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221B-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221B-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221B-1IN	1.000	25.40	0.500	12.70	0.035	0.89

### Availability

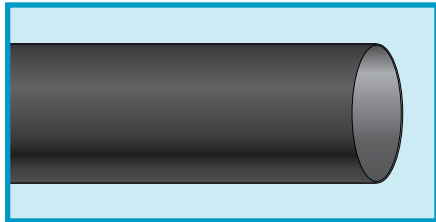
Part No.	Spools (Length x No. of Spools)		Qty, Cut Pieces at Length 4 ft (1.2 m)
	Ft	m	
FIT-221B-3/64	1000 x 3	305 x 3	250
FIT-221B-1/16	1000 x 3	305 x 3	250
FIT-221B-3/32	500 x 3	152 x 3	250
FIT-221B-1/8	500 x 3	152 x 3	250
FIT-221B-3/16	500 x 2	152 x 2	250
FIT-221B-1/4	250 x 2	76.2 x 2	250
FIT-221B-3/8	200 x 2	60.9 x 2	250
FIT-221B-1/2	150 x 2	45.7 x 2	200
FIT-221B-3/4	250 x 1 250 x 2	76.2 x 1 76.2 x 2	125
FIT-221B-1IN	250 x 1	76.2 x 1	75



# Heat-Shrink Tubing

FIT®-221V Heat-Shrink Tubing

2:1 Shrink Ratio, XLPO, Low Shrink Temperature



**AMS DTL-23053/5 Class 1 and 3**  
**UL 224 VW-1**  
**CSA 198**

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature

- 90°C min.
- 121°C full recovery

### Material

- Cross-linked polyolefin

### Colors

- Black, white, red, yellow, green, blue

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- Lead free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

### Availability

See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221V-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221V-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221V-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221V-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221V-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221V-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221V-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221V-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221V-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221V-1IN	1.000	25.40	0.500	12.70	0.035	0.89
FIT-221V-1-1/2	1.500	38.10	0.750	19.05	0.040	1.02
FIT-221V-2IN	2.000	50.80	1.000	25.40	0.045	1.14

### Availability

Part No.	Spools (Length x No. of Spools)		Qty, Cut Pieces at Length	
	Ft	m	4 ft (1.2 m)	6" (152 mm)
FIT-221V-3/64	1000 x 3	305 x3	25, 250	40
FIT-221V-1/16	1000 x 1, 1000 x 3	305 x 1, 305 x 3	25, 250	36
FIT-221V-3/32	500 x 1, 500 x 3	152 x 1, 152 x 3	25, 250	32
FIT-221V-1/8	500 x 1, 500 x 3	152 x 1, 152 x 3	25, 250	28
FIT-221V-3/16	500 x 1, 500 x 2	152 x 1, 152 x 2	25, 250	24
FIT-221V-1/4	250 x 1, 250 x 2	76.2 x 1, 76.2 x 2	25, 250	20
FIT-221V-3/8	200 x 1, 200 x 2	60.9 x 1, 60.9 x 2	25, 250	16
FIT-221V-1/2	150 x 1, 150 x 2	45.7 x 1, 45.7 x 2	5, 200	14
FIT-221V-3/4	250 x 1	76.2 x 1	5, 125	12
FIT-221V-1IN	250 x 1	76.2 x 1	5, 75	8
FIT-221V-1-1/2	125 x 1	38.1 x 1	5	5
FIT-221V-2IN	125 x 1	38.1 x 1	5	3

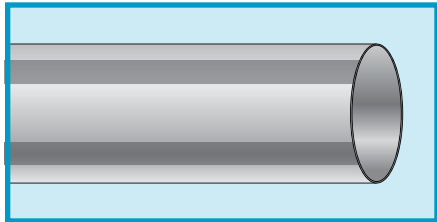




# Heat-Shrink Tubing

## FIT®-260 Heat-Shrink Tubing

### 2:1 Shrink Ratio, XLPO, Ground Lead Identification



#### UL 224 VW-1 CSA 198

- Excellent general-purpose tubing
- Low water absorption

#### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

#### Shrink Temperature

- 90°C min.
- 120°C full recovery

#### Material

- Cross-linked polyolefin

#### Color

- Green/yellow

#### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- Lead free

#### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

#### Availability

See table

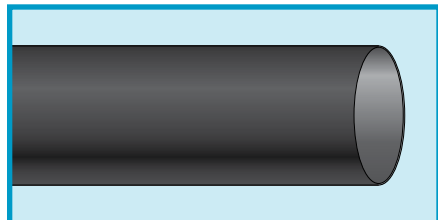
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
<b>FIT-260-1/8</b>	0.125	3.18	0.062	1.57	0.020	0.51	500	152
<b>FIT-260-1/4</b>	0.250	6.35	0.125	3.18	0.025	0.64	250	76.2
<b>FIT-260-3/8</b>	0.375	9.53	0.187	4.75	0.025	0.64	250	76.2
<b>FIT-260-1/2</b>	0.500	12.70	0.250	6.35	0.025	0.64	250	76.2
<b>FIT-260-3/4</b>	0.750	19.05	0.375	9.53	0.030	0.76	250	76.2
<b>FIT-260-1</b>	1.000	25.40	0.500	12.70	0.035	0.89	100	30.5



# Heat-Shrink Tubing

FIT®-295 Heat-Shrink Tubing  
2:1 Shrink Ratio, Semirigid XLPO



**AMS-DTL-23053/6 Class 1 (Black)**

**AMS-DTL-23053/6 Class 2 (Clear)**

**UL 224 VW-1 (Black)**

**CSA 198 (Black)**

- 30% stronger than standard XLPO
- 25% stiffer than standard XLPO
- Low water absorption
- UV resistant (black only)

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature

- 110°C min.
- 135°C full recovery

### Material

- Semirigid cross-linked polyolefin

### Colors

- Black, clear

### Physical Properties

- Tensile strength: 2000 psi (17.79 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (black)/1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max. (black)/0.02% max. (clear)
- Lead free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

### Availability

See table

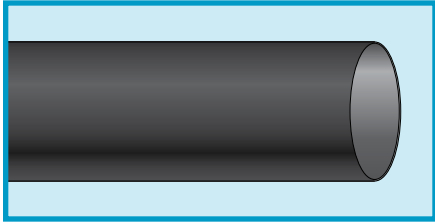
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	6" (152 mm)
<b>FIT-295-3/64</b>	0.046	1.17	0.023	0.58	0.020	0.51	25	40
<b>FIT-295-1/16</b>	0.063	1.60	0.031	0.79	0.020	0.51	25	36
<b>FIT-295-3/32</b>	0.093	2.36	0.046	1.17	0.020	0.51	25	32
<b>FIT-295-1/8</b>	0.125	3.18	0.062	1.57	0.020	0.51	25	28
<b>FIT-295-3/16</b>	0.187	4.75	0.093	2.36	0.025	0.64	25	24
<b>FIT-295-1/4</b>	0.250	6.35	0.125	3.18	0.025	0.64	25	20
<b>FIT-295-3/8</b>	0.375	9.53	0.187	4.75	0.030	0.76	25	16
<b>FIT-295-1/2</b>	0.500	12.70	0.250	6.35	0.030	0.76	5	14



# Heat-Shrink Tubing

## FIT®-300 Heat-Shrink Tubing

### 2.5:1 Shrink Ratio, Dual-Wall Semirigid XLPO



#### AMS-DTL-23053/4 Class 1 UL 224 (Except clear)

- Meltable inner wall for encapsulation without adhesives
- Thicker wall for added protection
- High shrink ratios
- Excellent dielectric properties

#### Applications

- Temporary sealing without sticky residue
- Substrates requiring filled interstices

#### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL)

#### Shrink Temperature

- 140°C min.

#### Material

- Dual-wall semirigid cross-linked polyolefin

#### Colors

- Black, white, red, yellow, blue, slate, brown

#### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min

- Longitudinal change: +1%/-10%
- Specific gravity: 0.99
- Shelf life: 3 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- Lead free
- Halogen free

#### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>16</sup> ohm-cm

#### Availability

See table

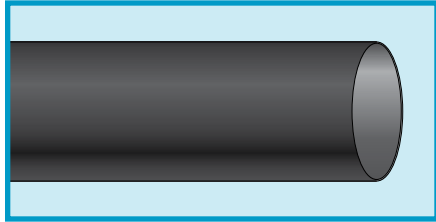
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	6" (152 mm)
<b>FIT-300-1/8</b>	0.125	3.18	0.023	0.58	0.038	0.97	25	14
<b>FIT-300-3/16</b>	0.187	4.75	0.060	1.52	0.043	1.09	25	12
<b>FIT-300-1/4</b>	0.250	6.35	0.080	2.03	0.047	1.19	25	10
<b>FIT-300-3/10</b>	0.300	7.62	0.050	1.27	0.100	2.54	25	4
<b>FIT-300-3/8</b>	0.375	9.53	0.135	3.43	0.050	1.27	25	8
<b>FIT-300-1/2</b>	0.500	12.70	0.195	4.95	0.055	1.40	5	6
<b>FIT-300-3/4</b>	0.750	19.05	0.313	7.95	0.065	1.65	5	4
<b>ST-3001-IN</b>	1.000	25.40	0.400	10.16	0.075	1.91	5	--



# Heat-Shrink Tubing

## FIT®-321 Heat-Shrink Tubing

### 3:1 Shrink Ratio, Dual-Wall XLPO, Adhesive Lined



**AMS-DTL-23053/4 Class 3  
UL 224  
CSA 198**

- Thicker wall for increased durability
- Water-resistant inner permanent-bonding adhesive

#### Operating Temperature

- -55°C to +125°C

#### Shrink Temperature

- 110°C min.
- 110°C full recovery

#### Material

- Dual-wall flexible polyolefin with thick-wall adhesive

#### Color

- Black

#### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 250% min
- Longitudinal change: +1%/-15%
- Flame tested
- Shelf life: 3 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 900 psi (6.20 N/mm<sup>2</sup>)
- UV resistant
- Lead free

#### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: 10<sup>12</sup> ohm-cm

#### Availability

See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Melt Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
<b>FIT-321-1/8</b>	0.125	3.18	0.024	0.61	0.037	0.94	0.020	0.51
<b>FIT-321-1/4</b>	0.252	6.40	0.073	1.85	0.047	1.19	0.020	0.51
<b>ST-303-3/8</b>	0.374	9.50	0.118	3.00	0.051	1.30	0.025	0.64
<b>FIT-321-1/2</b>	0.500	12.70	0.157	3.99	0.071	1.80	0.030	0.76
<b>ST-303-3/4</b>	0.748	19.00	0.236	5.99	0.071	1.80	0.035	0.89
<b>FIT-321-1</b>	0.945	24.00	0.315	8.00	0.098	2.49	0.040	1.02
<b>FIT-321-1-1/2</b>	1.575	40.01	0.512	13.00	0.098	2.49	0.040	1.02

#### Availability

Part No.	Qty, Cut Pieces at Length	
	4 ft (1.2 m)	6" (152 mm)
<b>FIT-321-1/8</b>	25	28
<b>FIT-321-1/4</b>	25	20
<b>FIT-321-1/2</b>	5	14
<b>FIT-321-1</b>	5	8
<b>FIT-321-1-1/2</b>	5	5

#### Packaged Assortments

Assorted sizes of 6" (15 cm) lengths

**FIT-321-MS-1** Colors: Black

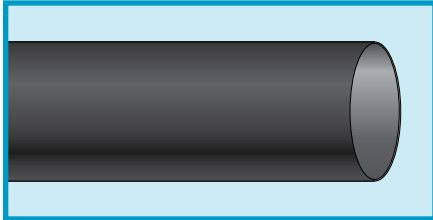
	Size		Quantity
	Inch	mm	
<b>FIT-321-1/8</b>	0.125	3.18	5
<b>FIT-321-1/4</b>	0.252	6.40	5
<b>FIT-321-1/2</b>	0.500	12.70	5
<b>FIT-321-1</b>	0.945	24.00	5



# Heat-Shrink Tubing

FIT®-321V Heat-Shrink Tubing

3:1 Shrink Ratio, Flexible XLPO, Thin Wall



**AMS-DTL-23053/5 Class 1 and 3 (except dimensions)**  
**UL 224 VW-1**  
**CSA 198**

- Low shrink temperature
- Fast recovery time
- Reduced wall thickness

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature

- 90°C min.
- 135°C full recovery

### Material

- Flexible cross-linked thin-wall polyolefin

### Colors

- Black, white

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35

- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

### Availability

See table

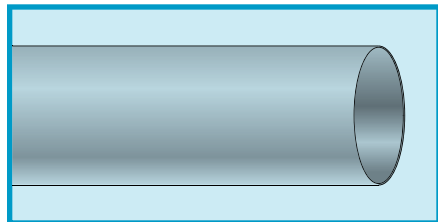
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
<b>FIT-321V-3/32</b>	0.060	1.52	0.020	0.51	0.020	0.51	500	152
<b>FIT-321V-1/8</b>	0.120	3.05	0.040	1.02	0.024	0.61	500	152
<b>FIT-321V-1/4</b>	0.240	6.10	0.080	2.03	0.028	0.71	250	76.2
<b>FIT-321V-3/8</b>	0.360	9.14	0.120	3.05	0.031	0.79	200	60.9
<b>FIT-321V-1/2</b>	0.472	11.99	0.160	4.06	0.033	0.84	150	45.7
<b>FIT-321V-3/4</b>	0.720	18.29	0.240	6.10	0.039	0.99	250	76.2
<b>FIT-321V-1IN</b>	0.945	24.00	0.315	8.00	0.048	1.22	250	76.2



# Heat-Shrink Tubing

FIT®-350 Heat-Shrink Tubing  
2:1 Shrink Ratio, PVDF



**AMS-DTL-23053/8**  
**UL 224 VW-1**

- Chemical resistant
- Heat resistant
- 3x the tensile strength of standard XLPO

### Operating Temperature

- -55°C to +135°C
- -55°C to +150°C (UL)

### Shrink Temperature

- 170°C min.
- 175°C full recovery

### Material

- Cross-linked polyvinylidene fluoride

### Color

- Clear

### Physical Properties

- Tensile strength: 5000 psi (34.47 N/mm<sup>2</sup>)
- Elongation: 150% min
- Longitudinal change: ±10%
- Specific gravity: 1.80

- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 5000 psi (34.47 N/mm<sup>2</sup>)
- Lead free

### Electrical Properties

- 600 V (UL)
- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: 10<sup>13</sup> ohm-cm

### Availability

See table

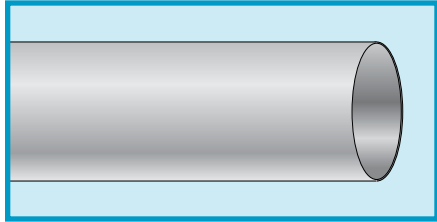
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	6" (152 mm)
<b>FIT-350-3/64</b>	0.046	1.17	0.023	0.58	0.010	0.25	25	32
<b>FIT-350-1/16</b>	0.063	1.60	0.031	0.79	0.010	0.25	25	28
<b>FIT-350-3/32</b>	0.093	2.36	0.046	1.17	0.010	0.25	25	24
<b>FIT-350-1/8</b>	0.125	3.18	0.062	1.57	0.010	0.25	25	20
<b>FIT-350-3/16</b>	0.187	4.75	0.093	2.36	0.010	0.25	25	16
<b>FIT-350-1/4</b>	0.250	6.35	0.125	3.18	0.012	0.30	25	12
<b>FIT-350-3/8</b>	0.375	9.53	0.187	4.75	0.012	0.30	25	8
<b>FIT-350-1/2</b>	0.500	12.70	0.250	6.35	0.012	0.30	5	4
<b>FIT-350-3/4</b>	0.750	19.05	0.375	9.53	0.017	0.43	5	2
<b>FIT-350-1IN</b>	1.000	25.40	0.500	12.70	0.019	0.48	5	1



# Heat-Shrink Tubing

## FIT®-400 Heat-Shrink Tubing

### 1.2:1 Shrink Ratio, FEP



#### AMS-DTL-23053/11 Class 1

- Chemical resistant
- Wide temperature range
- Excellent dielectric properties
- Thinnest wall thickness available
- Lower recovery temperature than PTFE

#### Operating Temperature

- -75°C to +200°C

#### Shrink Temperature

- 175°C full recovery

#### Material

- FEP

#### Color

- Natural

#### Physical Properties

- Tensile strength: 2000 psi (13.79 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±15%
- Specific gravity: 2.17

- Flame rating: UL 94V-0
- Shelf life: 4 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fluid resistance: pass
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Lead free

#### Electrical Properties

- Dielectric strength: 2000 V/mil (787 kV/cm)
- Volume resistivity: 10<sup>17</sup> ohm-cm

#### Availability

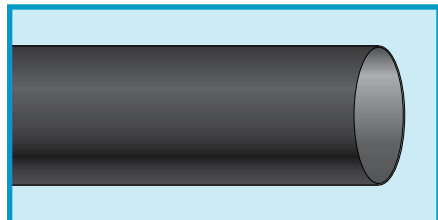
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	Mm	Inch	mm	Inch	mm	4 ft (1.2 m)	2 ft (0.6 m)
<b>FIT-400-24</b>	0.031	0.79	0.027	0.69	0.008	0.20	25	—
<b>FIT-400-22</b>	0.036	0.91	0.032	0.81	0.008	0.20	25	—
<b>FIT-400-20</b>	0.045	1.14	0.039	0.99	0.008	0.20	25	—
<b>FIT-400-18</b>	0.060	1.52	0.049	1.24	0.008	0.20	25	—
<b>FIT-400-16</b>	0.075	1.91	0.061	1.55	0.009	0.23	25	—
<b>FIT-400-14</b>	0.092	2.34	0.072	1.83	0.009	0.23	25	—
<b>FIT-400-12</b>	0.115	2.92	0.089	2.26	0.009	0.23	25	—
<b>FIT-400-10</b>	0.141	3.58	0.114	2.90	0.010	0.25	25	—
<b>FIT-400-9</b>	0.158	4.01	0.124	3.15	0.010	0.25	25	—
<b>FIT-400-8</b>	0.180	4.57	0.143	3.63	0.010	0.25	25	—
<b>FIT-400-7</b>	0.197	5.00	0.158	4.01	0.011	0.28	25	—
<b>FIT-400-6</b>	0.225	5.72	0.180	4.57	0.011	0.28	25	—
<b>FIT-400-5</b>	0.248	6.30	0.198	5.03	0.011	0.28	—	50
<b>FIT-400-4</b>	0.290	7.37	0.226	5.74	0.011	0.28	—	50
<b>FIT-400-3</b>	0.310	7.87	0.249	6.32	0.011	0.28	—	50
<b>FIT-400-2</b>	0.365	9.27	0.280	7.11	0.012	0.30	—	50
<b>FIT-400-1</b>	0.400	10.16	0.311	7.90	0.012	0.30	—	50
<b>FIT-400-0</b>	0.440	11.18	0.349	8.86	0.012	0.30	—	50



# Heat-Shrink Tubing

FIT®-421 Heat-Shrink Tubing  
4:1 Shrink Ratio, XLPO



## AMS-DTL-23053/5 Class 1 UL 224 VW-1

- High-shrink ratio
- Large supplied diameters
- Conforms to irregular shapes
- Low water absorption
- UV resistant

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL)

### Shrink Temperature

- 90°C min.
- 121°C full recovery

### Material

- Cross-linked polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35

- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- UV resistant
- Lead free

### Electrical Properties

- 600 V (UL)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>14</sup> ohm-cm

### Availability

See table

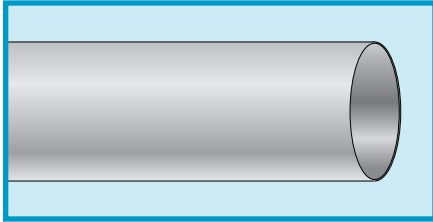
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	15 ft (4.5 m)
<b>FIT-421-1IN</b>	1.000	25.40	0.260	6.60	0.045	1.14	5	—
<b>FIT-421-1-1/2</b>	1.500	38.10	0.375	9.53	0.045	1.14	5	—
<b>FIT-421-2IN</b>	2.000	50.80	0.550	13.97	0.045	1.14	5	—
<b>FIT-421-3IN</b>	3.000	76.20	0.810	20.57	0.045	1.14	2	—
<b>FIT-421-4IN</b>	4.000	101.60	1.050	26.67	0.045	1.14	2	—



# Heat-Shrink Tubing

## FIT®-500 Heat Shrink Tubing

### 1.5:1 Shrink Ratio, PTFE



#### AMS-DTL-23053/12 Class 3

- Excellent chemical resistance
- Widest temperature range
- High tensile strength
- Excellent dielectric properties
- Extremely thin wall thickness
- Low friction coefficient

#### Operating Temperature

- -75°C to +260°C

#### Shrink Temperature

- 327°C full recovery

#### Material

- PTFE

#### Color

- Natural

#### Physical Properties

- Tensile strength: 2500 psi (17.21 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±20%
- Specific gravity: 2.20
- Flame rating: UL 94V-0
- Shelf life: 4 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Fluid resistance: pass
- Lead free

#### Electrical Properties

- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: 10<sup>18</sup> ohm-cm

#### Availability

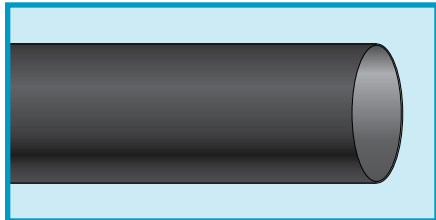
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability, Cut Pieces at Length 2 ft (0.6 m)
	Inch	mm	Inch	mm	Inch	mm	
<b>FIT-500-30</b>	0.034	0.86	0.015	0.38	0.009	0.23	50
<b>FIT-500-28</b>	0.038	0.97	0.018	0.46	0.009	0.23	50
<b>FIT-500-26</b>	0.046	1.17	0.022	0.56	0.010	0.25	50
<b>FIT-500-24</b>	0.050	1.27	0.027	0.69	0.010	0.25	50
<b>FIT-500-22</b>	0.055	1.40	0.032	0.81	0.012	0.30	50
<b>FIT-500-20</b>	0.060	1.52	0.039	0.99	0.012	0.30	50
<b>FIT-500-18</b>	0.076	1.93	0.049	1.24	0.012	0.30	50
<b>FIT-500-16</b>	0.093	2.36	0.061	1.55	0.012	0.30	50
<b>FIT-500-14</b>	0.120	3.05	0.072	1.83	0.012	0.30	50
<b>FIT-500-12</b>	0.150	3.81	0.089	2.26	0.012	0.30	25
<b>FIT-500-10</b>	0.191	4.85	0.112	2.84	0.012	0.30	25
<b>FIT-500-8</b>	0.240	6.10	0.141	3.58	0.015	0.38	25
<b>FIT-500-6</b>	0.302	7.67	0.178	4.52	0.015	0.38	10
<b>FIT-500-4</b>	0.370	9.40	0.224	5.69	0.015	0.38	10
<b>FIT-500-2</b>	0.430	10.92	0.278	7.06	0.015	0.38	10
<b>FIT-500-0</b>	0.470	11.94	0.347	8.81	0.015	0.38	10



# Heat-Shrink Tubing

FIT®-600 Heat Shrink Tubing  
2:1 Shrink Ratio, Chlorinated PO



## AMS-DTL-23053/1 Class 1 and 2

- More flexible than standard XLPO
- 2x the tensile strength of silicone rubber
- Large tubing diameters
- Oil resistant
- Abrasion resistant

### Operating Temperature

- -75°C to +121°C

### Shrink Temperature

- 130°C min.
- 130°C full recovery

### Material

- Chlorinated polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 250% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.30
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- UV resistant
- Lead free

### Electrical Properties

- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: 10<sup>11</sup> ohm-cm

### Availability

See table

Spools may contain multiple lengths

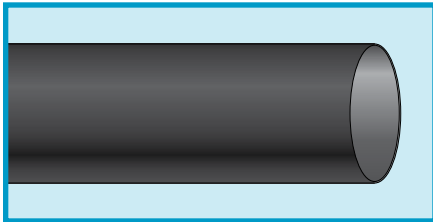
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
FIT-600-1/4	0.250	6.35	0.143	3.63	0.035	0.89	25, 150	7.6, 46
FIT-600-3/8	0.375	9.53	0.211	5.36	0.040	1.02	25, 150	7.6, 46
FIT-600-1/2	0.500	12.70	0.286	7.26	0.048	1.22	25, 150	7.6, 46
FIT-600-5/8	0.625	15.88	0.357	9.07	0.052	1.32	25, 150	7.6, 46
FIT-600-3/4	0.750	19.05	0.428	10.87	0.057	1.45	25, 100	7.6, 30.5
FIT-600-7/8	0.875	22.23	0.500	12.70	0.065	1.65	25, 100	7.6, 30.5
FIT-600-1IN	1.000	25.40	0.570	14.48	0.070	1.78	25, 100	7.6, 30.5
FIT-600-1-1/4	1.250	31.75	0.714	18.14	0.087	2.21	25, 100	7.6, 30.5
FIT-600-1-1/2	1.500	38.10	0.857	21.77	0.095	2.41	25, 100	7.6, 30.5
FIT-600-1-3/4	1.750	44.45	1.000	25.40	0.107	2.72	25, 75	7.6, 22.8
FIT-600-2IN	2.000	50.80	1.140	28.96	0.110	2.79	25, 75	7.6, 22.8
FIT-600-3IN	3.000	76.20	1.710	43.43	0.125	3.18	25, 50	7.6, 15.2



# Heat-Shrink Tubing

FIT®-621 Heat Shrink Tubing

5.6:1 Shrink Ratio, Dual-Wall Flexible PO, Adhesive-Lined Inner Thick Wall



- High shrink ratios
- Heavy-duty adhesive lining
- Low water absorption
- Oil resistant
- Chemical resistant
- Abrasion resistant

### Operating Temperature

- -55°C to +90°C

### Shrink Temperature

- 121°C full recovery

### Material

- Polyolefin

### Color

Black

### Physical Properties

- Tensile strength: 1200 psi (8.27 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: -10%
- Specific gravity: 1.40
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 750 psi (5.17 N/mm<sup>2</sup>)
- Halogen free
- Lead free

### Electrical Properties

- Dielectric strength: 200 V/mil (79 kV/cm<sup>2</sup>)
- Volume resistivity: 10<sup>13</sup> ohm-cm

### Availability

See table

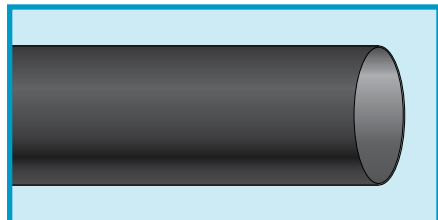
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length 6" (152 mm)
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
<b>FIT-621-5/8</b>	0.600	15.24	0.150	3.81	0.060	1.52	0.050	1.27	3, 10
<b>FIT-621-1-1/4</b>	1.250	31.75	0.220	5.59	0.060	1.52	0.050	1.27	3, 10
<b>FIT-621-2</b>	2.000	50.80	0.374	9.50	0.106	2.69	0.050	1.27	3, 10, 24
<b>FIT-621-2-1/2</b>	2.500	63.50	0.500	12.70	0.120	3.05	0.050	1.27	3, 10
<b>FIT-621-3</b>	3.000	76.20	0.748	19.00	0.140	3.56	0.050	1.27	3, 10
<b>FIT-621-4</b>	4.000	101.60	0.898	22.81	0.155	3.94	0.050	1.27	3, 10



# Heat-Shrink Tubing

FIT®-650 Heat Shrink Tubing

2:1 Shrink Ratio, Flexible Fluoroelastomer



## AMS-DTL-23053/13

- Excellent chemical resistance
- Wide temperature range
- Flexible
- Oil resistant
- Fuel resistant

### Operating Temperature

- -40°C to +200°C

### Shrink Temperature

- 130°C min.
- 175°C full recovery

### Material

- Flexible fluoroelastomer

### Colors

- Black

### Physical Properties

- Tensile strength: 1200 psi (8.27 N/mm<sup>2</sup>)
- Elongation: 250% min
- Longitudinal change: ±20%
- Flammability: self-extinguishing
- Shelf life: 2 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.50% max
- Fluid resistance: 1200 psi (8.27 N/mm<sup>2</sup>)
- Lead free

### Electrical Properties

- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: 10<sup>9</sup> ohm-cm

### Availability

100 ft (30.5 m)  
Spools may contain multiple lengths

Part No	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
<b>FIT-650-1/8</b>	0.125	3.18	0.062	1.57	0.031	0.79
<b>FIT-650-3/16</b>	0.187	4.75	0.093	2.36	0.035	0.89
<b>FIT-650-1/4</b>	0.250	6.35	0.125	3.18	0.035	0.89
<b>FIT-650-3/8</b>	0.375	9.53	0.187	4.75	0.035	0.89
<b>FIT-650-1/2</b>	0.500	12.70	0.250	6.35	0.035	0.89
<b>FIT-650-3/4</b>	0.750	19.05	0.375	9.53	0.042	1.07
<b>FIT-650-1</b>	1.000	25.40	0.500	12.70	0.049	1.24
<b>ST-650-1-1/2*</b>	1.500	38.10	0.750	19.50	0.055	1.40

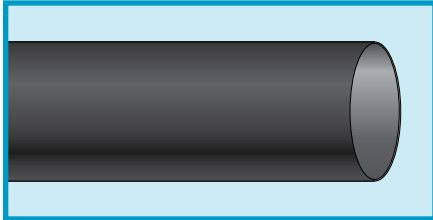
\*Available in 50 ft (76 m) spools only.



# Heat-Shrink Tubing

FIT®-700 Heat Shrink Tubing

3:1 Shrink Ratio, Heavy-Wall XLPO, Thermoplastic Adhesive Lined



**ANSI C119:1**  
**UL 486**  
**CSA 198**

- Thermoplastic adhesive bonds to most materials
- Rated for 1 kV, 90°C continuous use
- Superior strength

### Operating Temperature

- -55°C to +110°C

### Shrink Temperature

- 120°C min.
- 120°C full recovery

### Material

- Heavy-wall cross-linked polyolefin
- Thermoplastic adhesive

### Color

- Black

### Physical Properties

- Tensile strength: 2100 psi (14.48 N/mm<sup>2</sup>)
- Elongation: 600% min
- Longitudinal change: +1%/-10%

- Specific gravity: 1.10
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.10% max
- Fluid resistance: excellent
- UV resistant
- Lead free

### Electrical Properties

- Dielectric strength: 500 V/mil (196.9 kV/cm)
- Volume resistivity: 10<sup>17</sup> ohm-cm

### Availability

Cut pieces (see table)

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length 12" (304 mm)
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
<b>FIT-700-21</b>	0.750	19.05	0.240	6.10	0.120	3.05	0.050	1.27	6
<b>FIT-700-22</b>	1.100	27.94	0.350	8.89	0.120	3.05	0.050	1.27	6
<b>FIT-700-23</b>	1.500	38.10	0.470	11.94	0.140	3.56	0.050	1.27	6
<b>FIT-700-24</b>	2.000	50.80	0.630	16.00	0.140	3.56	0.050	1.27	6
<b>FIT-700-25*</b>	3.000	76.20	1.250	31.75	0.160	4.06	0.050	1.27	6
<b>FIT-700-26*</b>	4.500	114.30	1.750	44.45	0.160	4.06	0.050	1.27	6

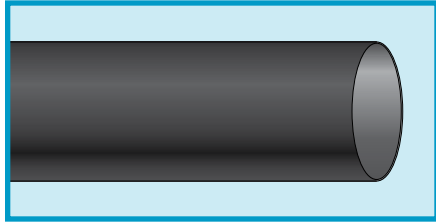
\*Not UL or CSA listed



# Heat-Shrink Tubing

## FIT®-750 Heat Shrink Tubing

### 2:1 Shrink Ratio, XLPO, Adhesive Lined



**AMS-DTL-23053/4 Class 2**  
**UL 224 VW-1**  
**CSA 198**

- General-purpose adhesive-lined tubing
- Total encapsulation
- Bonding to substrates

#### Operating Temperature

- -55°C to +110°C
- -55°C to +125°C (UL, CSA)

#### Shrink Temperature

- 110°C min.
- 110°C full recovery

#### Material

- Adhesive-lined cross-linked polyolefin

#### Color

- Black

#### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: +1%/-5%

- All tubing flame tested
- Self-extinguishing within 1 minute
- Shelf life: 3 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm<sup>2</sup>)
- UV resistance
- Lead free

#### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10<sup>12</sup> ohm-cm

#### Availability

See table

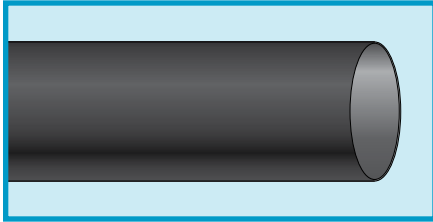
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
<b>ST-302-1/8</b>	0.125	3.18	0.063	1.60	0.027	0.69	0.002	0.05	25
<b>ST-302-3/16</b>	0.187	4.75	0.093	2.36	0.027	0.69	0.002	0.05	25
<b>FIT-750-1/4</b>	0.250	6.35	0.125	3.18	0.030	0.76	0.004	0.10	25
<b>FIT-750-3/8</b>	0.375	9.53	0.187	4.75	0.031	0.79	0.004	0.10	25
<b>FIT-750-1/2</b>	0.500	12.70	0.250	6.35	0.032	0.81	0.005	0.13	5
<b>FIT-750-3/4</b>	0.750	19.05	0.375	9.53	0.037	0.94	0.005	0.13	5
<b>FIT-750-1IN</b>	1.000	25.40	0.500	12.70	0.039	0.99	0.007	0.18	5
<b>FIT-750-1-1/2</b>	1.500	38.10	0.750	19.05	0.046	1.17	0.007	0.18	5



# Heat-Shrink Tubing

## FIT®-FABRIC Woven Fabric Heat-Shrink Tubing

### 2:1 Shrink Ratio



**UL 1441 (125°C)  
MVSS 302**

- Excellent abrasion resistance
- Outstanding flexibility and durability
- Easy installation: cuts with scissors

#### Operating Temperature

- -40°C to +125°C

#### Shrink Temperature

- 80°C min.
- 135°C full recovery

#### Material

- Polyethylene-polyester fabric

#### Color

- Black

#### Physical Properties

- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

#### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free
- Halogen free
- UV resistant

#### Availability

See table

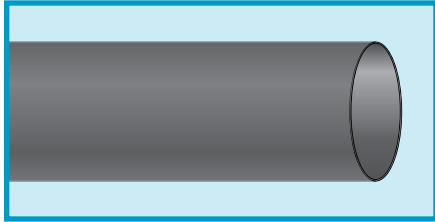
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
<b>FIT-FAB-1</b>	0.472	11.99	0.236	5.99	0.040	1.02	50, 200	15.2, 60.9
<b>FIT-FAB-2</b>	0.787	19.99	0.394	10.01	0.040	1.02	50, 200	15.2, 60.9
<b>FIT-FAB-3</b>	1.181	30.00	0.591	15.01	0.040	1.02	50, 200	15.2, 60.9
<b>FIT-FAB-4</b>	1.575	40.01	0.787	19.99	0.040	1.02	50, 200	15.2, 60.9
<b>FIT-FAB-5</b>	1.969	50.01	0.984	24.99	0.040	1.02	25, 100	7.6, 30.5
<b>FIT-FAB-6</b>	2.362	59.99	1.181	30.00	0.040	1.02	25, 100	7.6, 30.5
<b>FIT-FAB-7</b>	2.756	70.00	1.378	35.00	0.040	1.02	25, 100	7.6, 30.5



# Heat-Shrink Tubing

FIT®-FLEX Highly Flexible Heat-Shrink Tubing  
1.7:1 Shrink Ratio, Cross-linked Silicone Rubber



## UL 224 VW-1

- Highly flexible over wide temperature range
- Scrape abrasion resistant
- Pliable

### Operating Temperature

- -50°C to +200°C

### Shrink Temperature

- 80°C min.
- 135°C full recovery

### Material

- Cross-linked silicone rubber

### Color

- Slate

### Physical Properties

- Tensile strength: 870 psi (5.99 N/mm<sup>2</sup>)
- Elongation: 350% min
- Longitudinal change: -15%
- Specific gravity: 1.20
- Flammability: self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 1.0% max
- Lead free

### Electrical Properties

- 600 V
- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: 10<sup>12</sup> ohm-cm

### Availability

25 ft (7.6 m)  
100 ft (30.5 m)  
Spools may contain multiple lengths

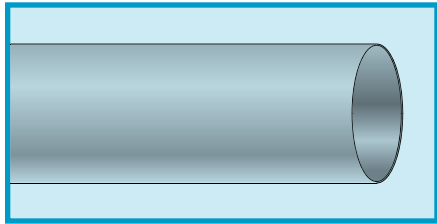
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
<b>FIT-FLEX-2</b>	0.165	4.19	0.071	1.80	0.055	1.40
<b>FIT-FLEX-3</b>	0.263	6.68	0.114	2.90	0.055	1.40
<b>FIT-FLEX-5</b>	0.394	10.01	0.173	4.39	0.055	1.40
<b>FIT-FLEX-6</b>	0.512	13.00	0.244	6.20	0.055	1.40
<b>FIT-FLEX-9</b>	0.757	19.23	0.354	8.99	0.059	1.50
<b>FIT-FLEX-12</b>	0.984	24.99	0.492	12.50	0.079	2.01
<b>FIT-FLEX-20</b>	1.378	35.00	0.748	19.00	0.079	2.01





# Heat-Shrink Tubing

FIT®-CLEAR Heat-Shrink Tubing  
2:1 Shrink Ratio, Cross-Linked PVDF



**AMS-DTL-23053/18 Class 1  
UL 224 VW-1**

- Excellent heat and chemical resistance
- Mechanical abrasion and cut-through resistance

### Operating Temperature

- -55°C to +175°C
- -55°C to +150°C (UL)

### Shrink Temperature

- 150°C full recovery

### Material

- Cross-linked polyvinylidene fluoride

### Color

- Clear

### Physical Properties

- Tensile strength: 3500 psi (24.13 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: ±10%
- Specific gravity: 2.0
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 0.5% max
- Fluid resistance: 2000 psi (13.79 N/mm<sup>2</sup>)
- Lead free

### Electrical Properties

- 600 V (UL)
- Dielectric strength: 400 V/mil (158 kV/cm)
- Volume resistivity: 10<sup>11</sup> ohm-cm

### Availability

See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
<b>FIT-CLEAR-3/64</b>	0.046	1.17	0.023	0.58	0.010	0.25	100	30.5
<b>FIT-CLEAR-1/16</b>	0.063	1.60	0.031	0.79	0.010	0.25	100	30.5
<b>FIT-CLEAR-3/32</b>	0.093	2.36	0.046	1.17	0.010	0.25	100	30.5
<b>FIT-CLEAR-1/8</b>	0.125	3.18	0.062	1.57	0.010	0.25	100	30.5
<b>FIT-CLEAR-3/16</b>	0.187	4.75	0.093	2.36	0.010	0.25	100	30.5
<b>FIT-CLEAR-1/4</b>	0.250	6.35	0.125	3.18	0.012	0.30	100	30.5
<b>FIT-CLEAR-3/8</b>	0.375	9.53	0.187	4.75	0.012	0.30	100	30.5
<b>FIT-CLEAR-1/2</b>	0.500	12.70	0.250	6.35	0.012	0.30	50	15.2
<b>FIT-CLEAR-3/4</b>	0.750	19.05	0.375	9.53	0.017	0.43	50	15.2
<b>FIT-CLEAR-1IN</b>	1.000	25.40	0.500	12.70	0.019	0.48	50	15.2
<b>FIT-CLEAR-1-1/2</b>	1.500	38.10	0.750	19.05	0.020	0.51	50	15.2
<b>FIT-CLEAR-2IN</b>	2.000	50.80	1.000	25.40	0.020	0.51	50	15.2

