



## Heat Shrink Tubing

### Dual Wall, Adhesive-Lined Flexible Polyolefin Tubing

#### Q5-2X and Q5-3X Series

**Features:** • Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

**Specifications:** • **Operating Temperature:** -45°C ~ 125°C • **Full Recovery Temperature:** 125°C • **Approvals:** UL 224: 125°C, 600V, File No. E236137 • **Shrink Ratio:** Q5-2X Series: 2:1; Q5-3X Series: 3:1 • **Color:** Black

Tubing Dia. $\frac{1}{8}$ Inches	As Supplied Minimum Inside Diameter mm	After Recovered - mm			Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter	Nominal Wall Thickness	Nominal Adhesive Thickness		4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
<b>Q5-2X Series</b>								
1/8	3.2	1.60	0.70	0.20	Q52X018B-ND	1.43	2.47	5.45
3/16	4.8	2.40	0.70	0.20	Q52X316B-ND	1.71	2.96	6.55
1/4	6.4	3.20	0.75	0.20	Q52X014B-ND	2.09	3.62	8.00
3/8	9.5	4.80	0.75	0.20	Q52X038B-ND	2.85	4.94	10.92
1/2	12.7	6.40	0.75	0.20	Q52X012B-ND	3.89	6.74	14.91
3/4	19.1	9.50	0.90	0.20	Q52X034B-ND	6.36	11.03	24.40
1	25.4	12.70	1.10	0.20	Q52X100B-ND	9.40	16.29	36.03
1 1/2	38.1	19.00	1.10	0.20	Q52X112B-ND	15.67	27.15	60.04
<b>Q5-3X Series</b>								
1/8	3.0	0.60	1.00±0.10	0.50	Q53X018B-ND	1.43	2.47	5.45
3/16	4.8	1.50	1.10±0.10	0.50	Q53X316B-ND	1.71	2.96	6.55
1/4	6.0	2.00	1.20±0.10	0.50	Q53X014B-ND	2.09	3.62	8.00
3/8	9.0	3.00	1.30±0.10	0.60	Q53X038B-ND	2.85	4.94	10.92
1/2	12.0	4.00	1.70±0.15	0.80	Q53X012B-ND	4.37	7.57	16.75
3/4	19.0	6.00	2.00±0.20	0.80	Q53X034B-ND	6.92	12.01	26.56
1	24.0	8.00	2.20±0.20	1.05	Q53X100B-ND	10.92	18.92	41.83
1 1/4	30.0	10.00	2.40±0.20	1.05	Q53X114B-ND	13.11	22.71	50.23
1 1/2	40.0	13.00	2.50±0.20	1.05	Q53X112B-ND	17.65	30.60	67.68
2	50.0	19.00	2.50±0.20	1.05	Q53X200B-ND	25.34	43.93	97.15

‡ Size before shrinking

## Polyolefin Heat Shrink Tubing

### Q2-F and Q2-F3X Series

**Features:** • Environmentally friendly flame retardant shrink tubing • Good flexibility and superior mechanical strength in such fields as electronics, communication and automobile

**Specifications:** • **Operating Temperature:** -55°C ~ 135°C • **Full Recovery Temperature:** 100°C • **Shrink Ratio:** Q2-F: 2:1; Q2-F3X: 3:1 • **Approvals:** UL 224: 125°C, 600V, VW-1, File No. E236137 • **Material:** No PBB's, PBBO's, PBBE's • **Cadmium Content:** <5ppm • **Lead Content:** <10ppm • **Standard Color:** Black

Tubing Dia. $\frac{1}{8}$ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length			Spool Size Feet	Price Per Spool
		Maximum Inside Diameter	Nominal Wall Thickness		4' (1 pc.)	8' (2 pc.)	20' (5 pc.)		
<b>Q2-F Series</b>									
3/64	1.6	0.60	0.40±0.08	Q2F364B-ND	.40	.70	—	—	—
3/64	1.6	0.60	0.40±0.08	Q2F364B-100-ND	—	—	100	—	7.44
3/64	1.6	0.60	0.40±0.08	Q2F364B-1000-ND	—	—	1000	—	70.15
1/16	2.0	0.80	0.43±0.08	Q2F116B-ND	.42	.73	—	—	—
1/16	2.0	0.80	0.43±0.08	Q2F116B-100-ND	—	—	100	—	7.81
1/16	2.0	0.80	0.43±0.08	Q2F116B-1000-ND	—	—	1000	—	73.66
3/32	3.1	1.20	0.51±0.08	Q2F332B-ND	.46	.80	—	—	—
3/32	3.1	1.20	0.51±0.08	Q2F332B-100-ND	—	—	100	—	8.55
3/32	3.1	1.20	0.51±0.08	Q2F332B-500-ND	—	—	500	—	40.33
1/8	3.7	1.60	0.51±0.08	Q2F018B-ND	.49	.86	—	—	—
1/8	3.7	1.60	0.51±0.08	Q2F018B-100-ND	—	—	100	—	9.29
1/8	3.7	1.60	0.51±0.08	Q2F018B-500-ND	—	—	500	—	43.84
3/16	5.2	2.40	0.51±0.08	Q2F316B-ND	.71	1.22	—	—	—
3/16	5.2	2.40	0.51±0.08	Q2F316B-100-ND	—	—	100	—	13.20
3/16	5.2	2.40	0.51±0.08	Q2F316B-500-ND	—	—	500	—	62.26
1/4	6.8	3.20	0.64±0.08	Q2F014B-ND	.89	1.54	—	—	—
1/4	6.8	3.20	0.64±0.08	Q2F014B-100-ND	—	—	100	—	16.54
1/4	6.8	3.20	0.64±0.08	Q2F014B-500-ND	—	—	500	—	78.04
5/16	8.8	4.00	0.64±0.08	Q2F516B-ND	1.02	1.78	—	—	—
5/16	8.8	4.00	0.64±0.08	Q2F516B-100-ND	—	—	100	—	19.14
5/16	8.8	4.00	0.64±0.08	Q2F516B-250-ND	—	—	250	—	45.16
3/8	10.7	4.80	0.64±0.08	Q2F038B-ND	1.20	2.09	—	—	—
3/8	10.7	4.80	0.64±0.08	Q2F038B-100-ND	—	—	100	—	22.50
3/8	10.7	4.80	0.64±0.08	Q2F038B-250-ND	—	—	250	—	53.04
1/2	13.7	6.40	0.64±0.08	Q2F012B-ND	1.49	2.59	—	—	—
1/2	13.7	6.40	0.64±0.08	Q2F012B-100-ND	—	—	100	—	27.89
1/2	13.7	6.40	0.64±0.08	Q2F012B-200-ND	—	—	200	—	52.61
5/8	16.7	8.00	0.76±0.08	Q2F058B-ND	2.32	4.03	—	—	—
5/8	16.7	8.00	0.76±0.08	Q2F058B-50-ND	—	—	50	—	21.66
5/8	16.7	8.00	0.76±0.08	Q2F058B-200-ND	—	—	200	—	81.73
3/4	20.5	9.50	0.76±0.08	Q2F034B-ND	2.74	4.74	—	—	—
3/4	20.5	9.50	0.76±0.08	Q2F034B-50-ND	—	—	50	—	25.46
3/4	20.5	9.50	0.76±0.08	Q2F034B-200-ND	—	—	200	—	96.10
1	26.5	12.70	0.89±0.12	Q2F100B-ND	3.88	6.72	—	—	—
1	26.5	12.70	0.89±0.12	Q2F100B-50-ND	—	—	50	—	36.16
1	26.5	12.70	0.89±0.12	Q2F100B-200-ND	—	—	200	—	136.43
<b>Q2-F3X Series</b>									
1/16	1.6	0.5	0.45	Q2F3X116B-ND	.44	.75	—	—	—
1/16	1.6	0.5	0.45	Q2F3X116B-100-ND	—	—	100	—	7.62
1/16	1.6	0.5	0.45	Q2F3X116B-500-ND	—	—	500	—	40.33
1/8	3.2	1.0	0.55	Q2F3X018B-ND	.54	.93	—	—	—
1/8	3.2	1.0	0.55	Q2F3X018B-100-ND	—	—	100	—	10.31
1/8	3.2	1.0	0.55	Q2F3X018B-500-ND	—	—	500	—	49.98
3/16	4.8	1.5	0.60	Q2F3X316B-ND	1.54	2.67	—	—	—
3/16	4.8	1.5	0.60	Q2F3X316B-100-ND	—	—	100	—	14.82
3/16	4.8	1.5	0.60	Q2F3X316B-250-ND	—	—	250	—	34.10

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Tubing Dia. $\frac{1}{8}$ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		Spool Size Feet	Price Per Spool
		Maximum Inside Diameter	Nominal Wall Thickness mm		4' (1 pc.)	8' (2 pc.)		
1/4	6.4	2.0	0.65	Q2F3X014B-ND	1.05	1.83	—	—
1/4	6.4	2.0	0.65	Q2F3X014B-100-ND	—	—	100	20.22
1/4	6.4	2.0	0.65	Q2F3X014B-250-ND	—	—	250	49.11
3/8	9.5	3.0	0.75	Q2F3X038B-ND	1.44	2.49	—	—
3/8	9.5	3.0	0.75	Q2F3X038B-100-ND	—	—	100	27.64
3/8	9.5	3.0	0.75	Q2F3X038B-250-ND	—	—	250	67.08
1/2	12.7	4.0	0.80	Q2F3X012B-ND	1.80	3.11	—	—
1/2	12.7	4.0	0.80	Q2F3X012B-50-ND	—	—	50	17.25
1/2	12.7	4.0	0.80	Q2F3X012B-150-ND	—	—	150	50.22
3/4	19.1	6.0	0.90	Q2F3X034B-ND	3.36	5.82	—	—
3/4	19.1	6.0	0.90	Q2F3X034B-50-ND	—	—	50	32.23
3/4	19.1	6.0	0.90	Q2F3X034B-150-ND	—	—	150	93.87
1	25.4	8.0	1.20	Q2F3X100B-ND	4.72	8.19	—	—
1	25.4	8.0	1.20	Q2F3X100B-50-ND	—	—	50	45.41
1 1/2	39.0	13.0	1.25	Q2F3X112B-ND	8.56	14.83	—	—
1 1/2	39.0	13.0	1.25	Q2F3X112B-50-ND	—	—	50	79.74
1 1/2	39.0	13.0	1.25	Q2F3X112B-150-ND	—	—	150	239.27

‡ Size before shrinking

## Heat Shrink Tubing Kits

### Q2-F and Q2-Z Series

<b>Q2Z1-KIT-ND - Heat Shrink Kit 1</b> Includes: 180 pieces, 6" Lengths, Black 3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.)	<b>\$26.61</b>
<b>Q2Z2-KIT-ND - Heat Shrink Kit 2</b> Includes: 82 pieces, 6" Lengths, Black 5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.)	<b>\$36.26</b>
<b>Q2F1-KIT-ND - Heat Shrink Kit 1</b> Includes: 180 pieces, 6" Lengths, Black 3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.)	<b>\$29.11</b>
<b>Q2F8-KIT-ND - Heat Shrink Kit 2</b> Includes: 82 pieces, 6" Lengths, Black 5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.)	<b>\$39.90</b>
<b>Q2F15-KIT-ND - Heat Shrink Kit 4</b> Includes: 141 pieces, 6" Lengths, Assorted Colors 1/16" (39 pcs.), 1/8" (31 pcs.), 1/4" (23 pcs.), 3/8" (19 pcs.), 1/2" (19 pcs.), 1" (10 pcs.)	<b>\$45.54</b>

## Refill Bags

Description	Digi-Key Part No.	Price Each
<b>Refill Bags for Q2F Kit 1</b>		
3/64", 40 pieces (consists of 6" pieces), Black	Q2F2-KIT-ND	1.72
1/16", 36 pieces (consists of 6" pieces), Black	Q2F3-KIT-ND	1.62
3/32", 32 pieces (consists of 6" pieces), Black	Q2F4-KIT-ND	1.57
1/8", 28 pieces (consists of 6" pieces), Black	Q2F5-KIT-ND	1.49
3/16", 24 pieces (consists of 6" pieces), Black	Q2F6-KIT-ND	1.82
1/4", 20 pieces (consists of 6" pieces), Black	Q2F7-KIT-ND	1.90
<b>Refill Bags for Q2F Kit 2</b>		
5/16", 18 pieces (consists of 6" pieces), Black	Q2F9-KIT-ND	1.98
3/8", 16 pieces (consists of 6" pieces), Black	Q2F10-KIT-ND	2.06
1/2", 14 pieces (consists of 6" pieces), Black	Q2F11-KIT-ND	2.24
5/8", 14 pieces (consists of 6" pieces), Black	Q2F12-KIT-ND	3.49
3/4", 12 pieces (consists of 6" pieces), Black	Q2F13-KIT-ND	3.51
1", 8 pieces (consists of 6" pieces), Black	Q2F14-KIT-ND	3.32
<b>Refill Bags for Q2F Kit 4</b>		
1/16", 39 pieces (consists of 6" pieces), Assorted Colors	Q2F16-KIT-ND	1.76
1/8", 31 pieces (consists of 6" pieces), Assorted Colors	Q2F17-KIT-ND	1.63
1/4", 23 pieces (consists of 6" pieces), Assorted Colors	Q2F18-KIT-ND	2.06
3/8", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F19-KIT-ND	2.24
1/2", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F20-KIT-ND	2.44
1", 10 pieces (consists		