



## 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. $\frac{1}{4}$ 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>								
3/16	3.2	1.60	0.70	0.20	Q52X018B-ND	.92	1.60	3.53
3/16	4.8	2.40	0.70	0.20	Q52X0316B-ND	1.10	1.92	4.24
1/4	6.4	3.20	0.75	0.20	Q52X014B-ND	1.35	2.34	5.18
3/8	9.5	4.80	0.75	0.20	Q52X038B-ND	1.84	3.19	7.06
1/2	12.7	6.40	0.75	0.20	Q52X012B-ND	2.52	4.36	9.65
3/4	19.1	9.50	0.90	0.20	Q52X034B-ND	4.12	7.14	15.78
1	25.4	12.70	1.10	0.20	Q52X100B-ND	6.08	10.54	23.31
1 1/2	38.1	19.00	1.10	0.20	Q52X112B-ND	10.13	17.56	38.84
<b>Q5-3X Series</b>								
1/8	3.0	0.60	1.00±0.10	0.50	Q53X018B-ND	.92	1.60	3.53
3/16	4.8	1.50	1.10±0.10	0.50	Q53X0316B-ND	1.10	1.92	4.24
1/4	6.0	2.00	1.20±0.10	0.50	Q53X014B-ND	1.35	2.34	5.18
3/8	9.0	3.00	1.30±0.10	0.60	Q53X038B-ND	1.84	3.19	7.06
1/2	12.0	4.00	1.70±0.15	0.80	Q53X012B-ND	2.82	4.90	10.84
3/4	19.0	6.00	2.00±0.20	0.80	Q53X034B-ND	4.48	7.77	17.18
1	24.0	8.00	2.20±0.20	1.05	Q53X100B-ND	7.06	12.24	27.07
1 1/4	30.0	10.00	2.40±0.20	1.05	Q53X114B-ND	8.48	14.69	32.50
1 1/2	40.0	13.00	2.50±0.20	1.05	Q53X112B-ND	9.90	17.51	38.07
2	50.0	19.00	2.50±0.20	1.05	Q53X200B-ND	14.21	25.14	54.65

‡ 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° ~ 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. $\frac{1}{4}$ 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	.26	.99	—	—	—
				Q2F364B-100-ND	—	—	100	3.27	—
				Q2F364B-1000-ND	—	—	1000	30.90	—
1/16	2.0	0.80	0.43±0.08	Q2F116B-ND	.27	1.04	—	—	—
				Q2F116B-100-ND	—	—	100	3.44	—
				Q2F116B-1000-ND	—	—	1000	32.44	—
3/32	3.1	1.20	0.51±0.08	Q2F332B-ND	.30	1.14	—	—	—
				Q2F332B-100-ND	—	—	100	3.77	—
				Q2F332B-500-ND	—	—	500	17.77	—
1/8	3.7	1.60	0.51±0.08	Q2F018B-ND	.32	1.23	—	—	—
				Q2F018B-100-ND	—	—	100	4.09	—
				Q2F018B-500-ND	—	—	500	19.31	—
3/16	5.2	2.40	0.51±0.08	Q2F316B-ND	.46	1.76	—	—	—
				Q2F316B-100-ND	—	—	100	5.82	—
				Q2F316B-500-ND	—	—	500	27.42	—
1/4	6.8	3.20	0.64±0.08	Q2F014B-ND	.57	2.20	—	—	—
				Q2F014B-100-ND	—	—	100	7.29	—
				Q2F014B-500-ND	—	—	500	34.38	—
5/16	8.8	4.00	0.64±0.08	Q2F516B-ND	.66	2.55	—	—	—
				Q2F516B-100-ND	—	—	100	8.44	—
				Q2F516B-250-ND	—	—	250	19.89	—
3/8	10.7	4.80	0.64±0.08	Q2F038B-ND	.78	2.99	—	—	—
				Q2F038B-100-ND	—	—	100	9.91	—
				Q2F038B-250-ND	—	—	250	23.37	—
1/2	13.7	6.40	0.64±0.08	Q2F012B-ND	.97	3.71	—	—	—
				Q2F012B-100-ND	—	—	100	12.28	—
				Q2F012B-200-ND	—	—	200	23.17	—
5/8	16.7	8.00	0.76±0.08	Q2F058B-ND	1.50	5.76	—	—	—
				Q2F058B-50-ND	—	—	50	9.54	—
				Q2F058B-200-ND	—	—	200	36.00	—
3/4	20.5	9.50	0.76±0.08	Q2F034B-ND	1.77	6.78	—	—	—
				Q2F034B-50-ND	—	—	50	11.22	—
				Q2F034B-200-ND	—	—	200	42.33	—
1	26.5	12.70	0.89±0.12	Q2F100B-ND	2.51	9.61	—	—	—
				Q2F100B-50-ND	—	—	50	15.93	—
				Q2F100B-200-ND	—	—	200	60.10	—
<b>Q2-F3X Series</b>									
1/16	1.6	0.5	0.45	Q2F3X116B-ND	.28	1.07	—	—	—
				Q2F3X116B-100-ND	—	—	100	3.35	—
				Q2F3X116B-500-ND	—	—	500	17.77	—
1/8	3.2	1.0	0.55	Q2F3X018B-ND	.35	1.33	—	—	—
				Q2F3X018B-100-ND	—	—	100	4.54	—
				Q2F3X018B-500-ND	—	—	500	22.01	—
3/16	4.8	1.5	0.60	Q2F3X316B-ND	.99	3.83	—	—	—
				Q2F3X316B-100-ND	—	—	100	6.53	—
				Q2F3X316B-250-ND	—	—	250	15.02	—

Tubing Dia. $\frac{1}{4}$ 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.)		
1/4	6.4	2.0	0.65	Q2F3X014B-ND	.68	2.61	—	—	—
				Q2F3X014B-100-ND	—	—	100	8.91	—
				Q2F3X014B-250-ND	—	—	250	21.63	—
3/8	9.5	3.0	0.75	Q2F3X038B-ND	.93	3.56	—	—	—
				Q2F3X038B-100-ND	—	—	100	12.18	—
				Q2F3X038B-250-ND	—	—	250	29.55	—
1/2	12.7	4.0	0.80	Q2F3X012B-ND	1.16	4.46	—	—	—
				Q2F3X012B-50-ND	—	—	50	7.59	—
				Q2F3X012B-150-ND	—	—	150	22.12	—
3/4	19.1	6.0	0.90	Q2F3X034B-ND	2.17	8.33	—	—	—
				Q2F3X034B-50-ND	—	—	50	14.19	—
				Q2F3X034B-150-ND	—	—	150	41.35	—
1	25.4	8.0	1.20	Q2F3X100B-ND	3.06	11.72	—	—	—
				Q2F3X100B-50-ND	—	—	50	20.00	—
				Q2F3X100B-150-ND	—	—	150	58.25	—
1 1/2	39.0	13.0	1.25	Q2F3X112B-ND	5.54	21.22	—	—	—
				Q2F3X112B-50-ND	—	—	50	35.12	—
				Q2F3X112B-150-ND	—	—	150	105.39	—

‡ 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>14.65</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>19.97</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>16.03</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>21.97</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>25.08</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	.94
1/16", 36 pieces (consists of 6" pieces), Black	Q2F3-KIT-ND	.89
3/32", 32 pieces (consists of 6" pieces), Black	Q2F4-KIT-ND	.86
1/8", 28 pieces (consists of 6" pieces), Black	Q2F5-KIT-ND	.82
3/16", 24 pieces (consists of 6" pieces), Black	Q2F6-KIT-ND	1.00
1/4", 20 pieces (consists of 6" pieces), Black	Q2F7-KIT-ND	1.05
<b>Refill Bags for Q2F Kit 2</b>		
5/16", 18 pieces (consists of 6" pieces), Black	Q2F9-KIT-ND	1.09
3/8", 16 pieces (consists of 6" pieces), Black	Q2F10-KIT-ND	1.14
1/2", 14 pieces (consists of 6" pieces), Black	Q2F11-KIT-ND	1.23
5/8", 14 pieces (consists of 6" pieces), Black	Q2F12-KIT-ND	1.23
3/4", 12 pieces (consists of 6" pieces), Black	Q2F13-KIT-ND	1.94
1", 8 pieces (consists of 6" pieces), Black	Q2F14-KIT-ND	1.83
<b>Refill Bags for Q2F Kit 4</b>		
1/16, 39 pieces (consists of 6" pieces), Assorted Colors	Q2F16-KIT-ND	.97
1/8", 31 pieces (consists of 6" pieces), Assorted Colors	Q2F17-KIT-ND	.89
1/4", 23 pieces (consists of 6" pieces), Assorted Colors	Q2F18-KIT-ND	1.14
3/8", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F19-KIT-ND	1.24
1/2", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F20-KIT-ND	1.34
1", 10 pieces (consists of 6" pieces), Assorted Colors	Q2F21-KIT-ND	1.99

## Modified Thin Wall Flexible Kynar® (PVDF) Heat Shrink Tubing - Q-150K Series

**Features:** • Excellent flame retardant heat shrinkable polyvinylidene fluoride tubing • Outstanding abrasion and cut-through resistance • Superior chemical and solvent resistant properties • Available in clear and black

**Specifications:** • Operating Temperature: -55°C ~ 150°C • Full Recovery Temperature: 175°C • Shrink Ratio: 2:1 • Approvals: UL 224: 150°C, 600V, File No. E245010

Tubing Dia. $\frac{1}{4}$ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Color	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter	Wall Thickness mm			4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
3/64	1.2	0.60	0.25±0.05	Clear	QKY364C-ND	1.07	1.86	4.12
				Black	QKY364B-ND	1.07	1.86	4.12
1/16	1.6	0.80	0.25±0.05	Clear	QKY116C-ND	1.20	2.08	4.60
				Black	QKY116B-ND	1.20	2.08	4.60
3/32	2.4	1.20	0.27±0.04	Clear	QKY332C-ND	1.52	2.63	5.81
				Black	QKY332B-ND	1.52	2.63	5.81
1/8	3.2	1.60	0.27±0.04	Clear	QKY018C-ND	1.83	3.17	7.02
				Black	QKY018B-ND	1.83	3.17	7.02
3/16	4.8	2.40	0.27±0.04	Clear	QKY316C-ND	2.59	4.49	9.92
				Black	QKY316B-ND	2.59	4.49	9.92
1/4	6.4	3.20	0.33±0.05	Clear	QKY014C-ND	3.16	5.47	12.10
				Black	QKY014B-ND	3.16	5.47	12.10
3/8	9.5	4.80	0.33±					