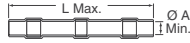


CWT-900X Series – Solder Sleeve Wire Splices

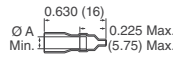
Materials: • **Insulation Sleeve:** Heat-shrinkable, radiation cross-linked modified polyolefin. Transparent clear. • **Solder Preform with Flux:** Solder: Type CD18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 **Application:** These controlled soldering devices are designed to splice tin-plated or bare copper stranded wires rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C



AWG (Color)	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Length - L Maximum		10	50	100	
24-20 (Clear)	.065 (1.7)	1.025 (26.0)	CWT9001-ND	7.72	34.57	56.95	CWT-9001
18-16 (Red)	.105 (2.7)	1.655 (42.0)	CWT9002-ND	11.38	50.94	83.90	CWT-9002
16-12 (Blue)	.180 (4.5)	1.655 (42.0)	CWT9003-ND	8.90	39.82	65.59	CWT-9003

CWT-150X Series – Wire Termination to Pin, Post or Tab

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent clear, radiation cross-linked modified polyolefin. • **Solder Preform with Flux:** Solder: Type Cd18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 **Application:** These controlled soldering devices are designed for termination of a wire to the lead of electrical component or to the terminal of a connector. **Temperature Range:** -55°C ~ 125°C

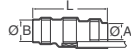


Diameter A Minimum	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter B Minimum	Length - L Maximum		10	50	100	
.060 (1.5)	.025 (0.6)		CWT1501-ND	7.05	31.54	51.94	CWT-1501
.090 (2.3)	.035 (0.9)		CWT1502-ND	7.38	32.94	54.25	CWT-1502
.110 (2.8)	.045 (1.2)		CWT1503-ND	7.53	33.69	55.50	CWT-1503

Note: Please refer to data sheet for Post or Tab sizes

CWT-X-W122-5 Series – Shield Terminators

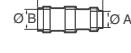
Materials: • **Insulation Sleeve:** Transparent heat-shrinkable radiation cross-linked modified polyolefin. • **Solder Preform with Flux:** Solder: Type Cd18 per ANSI-J-STD-006 Flux: Type ROM1 per ANSI-J-STD-004 • **Ground Lead:** Raychem cross-linked polyethylene wire, AWG22, stranded tin plated copper. • **Color:** Green **Application:** These controlled soldering devices are designed for termination of a bare or tin plated copper shield on a cable having an insulation rating for at least 85°C. **Temperature Range:** -55°C ~ 125°C



Diameter A Minimum	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter B Minimum	Length - L Maximum		10	50	100	
.098 (2.50)	.118 (3.00)	.965 (24.50)	CWT3W1225-ND	29.75	133.11	219.24	CWT-3-W122-5
.169 (4.30)	.189 (4.80)	1.154 (29.30)	CWT5W1225-ND	22.60	101.11	166.54	CWT-5-W122-5
.252 (6.40)	.287 (7.30)	1.280 (32.50)	CWT7W1225-ND	16.97	75.93	125.07	CWT-7-W122-5

S01-0X-R Series – Shield Terminators

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride. • **Solder Preform with Flux and Thermal Indicator:** Solder: Type Sn63 per ANSI-J-STD-006 Flux: Type ROL1 per ANSI-J-STD-004 **Thermal Indicator:** Color change: violet to colorless **Application:** These parts are designed to make an environment resistant shield termination • **Jacket Rating:** 125°C • Parts are qualified to M83519/1



Diameter A Minimum	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter B Minimum	Length - L Nominal		10	50	100	
.075 (1.90)	.105 (2.65)	.65 (16.5)	S0101R-ND	19.20	85.89	141.46	S01-01-R
.105 (2.65)	.145 (3.68)	.65 (16.5)	S0102R-ND	18.38	82.24	135.46	S01-02-R
.170 (4.30)	.200 (5.08)	.65 (16.5)	S0103R-ND	20.06	89.73	147.78	S01-03-R
.235 (5.95)	.255 (6.45)	.75 (19.1)	S0104R-ND	23.86	106.71	175.76	S01-04-R
.275 (7.00)	.300 (7.60)	.75 (19.1)	S0105R-ND	27.68	123.83	203.97	S01-05-R

D-406 Series – DURASEAL® Closed Barrel / Crimp Splice

Materials: • **Insulation Sleeve:** Heat shrinkable, radiation cross-linked polyamide (nylon) with a polyamide-based hot-melt adhesive liner. Color: per table. • **Crimp Splice:** Tin-plated copper alloy **Application:** These parts may be used to obtain an environment-resistant one-to-one in-line (butt) splice in wires meeting the size range and diameter restraints specified herein and having a temperature rating of not less than 85°C.



AWG (Color)	Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Diameter B Minimum	Length - L Nominal		10	50	100	
18-22 (Red)	.058 (1.47)	.146 (3.70)	1.24 (31.5)	D4060001-ND	8.81	39.40	64.90	D-406-0001
14-16 (Blue)	.092 (2.33)	.181 (4.60)	1.24 (31.5)	D4060002-ND	8.55	38.26	63.02	D-406-0002
10-12 (Yellow)	.138 (3.50)	.255 (6.50)	1.48 (37.5)	D4060003-ND	11.95	53.47	88.07	D-406-0003

Raychem Heat Shrinkable Caps

PD and ES Caps Series

PD Caps Series – Semirigid, Encapsulant-lined: Dual wall PD Caps inexpensively encapsulate crimped electrical connections, including those on motor coils. They remain tightly in place for the life of the motor. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -55°C ~ 110°C • UL Recognized File No. E85381 • CSA Certified LR31929



ES Caps Series – Semirigid, Adhesive-lined, Polyolefin: ES Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear ES Caps allow see-through inspection; black ES Caps are flame-retardant. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -40°C ~ 105°C • UL Recognized File No. E85381

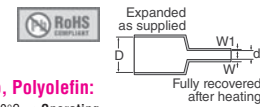
Tubing Size	Inside Diameter		Recovered Wall Thick. W mm	Digi-Key Part No.	Pricing			Raychem Part No.
	Expanded D - Min. mm	Recovered d - Max. mm			100	500	1,000	
PD Caps Series - Black								
1/8	3.2	0.58	1.22	PDC018K-ND	5.26	23.00	39.42	PD-CAP-1/8-0
3/16	4.7	1.52	1.57	PDC016K-ND	5.52	24.15	41.40	PD-CAP-3/16-0
1/4	6.4	2.03	1.98	PDC014K-ND	9.12	39.91	68.41	PD-CAP-1/4-0
3/8	9.5	2.29	2.08	PDC038K-ND	16.37	71.63	122.81	PD-CAP-3/8-0
1/2	12.7	2.29	2.54	PDC012K-ND	27.55	120.55	206.66	PD-CAP-1/2-0

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Min. Length	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Pricing			Raychem Part No.
	Expand. D - Min. mm	Recov. d - Max. mm	Total W mm	Melttable W1 mm		100	500	1,000	
ES Caps Series - Clear									
30	5.70	1.27	1.20	0.56	ESC30C-ND	8.89	38.91	66.70	ES-CAP-NO.1-C1-X-30MM
35	5.70	1.27	1.20	0.56	ESC35C-ND	10.08	44.10	75.60	ES-CAP-NO.1-C1-X-35MM
30	7.40	1.65	1.52	0.76	ESB30C-ND	10.70	46.81	80.24	ES-CAP-NO.2-B9-X-30MM
35	7.40	1.65	1.52	0.76	ESB35C-ND	11.96	52.36	89.76	ES-CAP-NO.2-B9-X-35MM
40	10.85	2.41	1.91	1.02	ESB40C-ND	21.42	93.74	160.71	ES-CAP-NO.3-B8-X-40MM
50	10.85	2.41	1.91	1.02	ESB50C-ND	25.97	113.60	194.75	ES-CAP-NO.3-B8-X-50MM
ES Caps Series - Black									
30	5.70	1.27	1.20	0.56	ESC30K-ND	8.89	38.91	66.70	ES-CAP-NO.1-C1-0-30MM
35	5.70	1.27	1.20	0.56	ESC35K-ND	10.08	44.10	75.60	ES-CAP-NO.1-C1-0-35MM
30	7.40	1.65	1.52	0.76	ESB30K-ND	10.70	46.81	80.24	ES-CAP-NO.2-B9-0-30MM
35	7.40	1.65	1.52	0.76	ESB35K-ND	11.96	52.36	89.76	ES-CAP-NO.2-B9-0-35MM
40	10.85	2.41	1.91	1.02	ESB40K-ND	21.42	93.74	160.71	ES-CAP-NO.3-B8-0-40MM
50	10.85	2.41	1.91	1.02	ESB50K-ND	25.97	113.60	194.75	ES-CAP-NO.3-B8-0-50MM

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Raychem Heat-Shrink Tubing
ATUM, DWP-125, and TAT-125 Series



ATUM Series – Adhesive-lined, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 110°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 and 4:1 • **UL Recognized file No.** E85381 • **Military AMS-DTL-23053/4 Applications:** • Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper. • **Dual Wall**

DWP-125 Series – Adhesive-lined, Flexible, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 125°C • **Operating Temperature:** -40°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 • **UL Recognized file No.** E35586 • **CSA Certified LR31929** • **Military AMS-DTL-23053/4 Applications:** • Environmentally seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions. Ideal for applications where UL recognized/CSA certified adhesive-lined tubing is required. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, and steel. • **Dual Wall**

TAT-125 Series – Adhesive-lined, Flexible, Polyolefin:

• **Shrink Temperature:** 95°C • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 2:1 • **UL Recognized file No.** E85381 • **Military AMS-DTL-23053/4 Applications:** • Seals and protects simple in-line splices, bimetallic joints, and components from fluids, moisture, and corrosion. Repairs damaged wire insulation, especially where flexibility is required. Provides one-step electrical insulation and moisture sealing. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, lead, and steel. • **Dual Wall**

Tubing Size	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Sold in 4' Lengths Only				
	Expand. D - Min. mm	Recov. d - Max. mm	Total W mm	Melttable W1 mm		4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
ATUM Series										
3/1	3.0	1.0	1.00	0.50	ATU031K-ND	7.04	12.20	27.00	56.34	93.90
6/2	6.0	2.0	1.00	0.50	ATU062K-ND	10.72	18.58	41.10	85.74	142.90
9/3	9.0	3.0	1.40	0.61	ATU093K-ND	16.33	28.30	62.58	130.60	217.67
12/4	12.0	4.0	1.78	0.76	ATU124K-ND	19.44	33.69	74.50	155.48	259.13
19/6	19.0	6.0	2.25	0.76	ATU196K-ND	27.21	47.16	104.30	217.66	362.77
24/8	24.0	8.0	2.54	1.02	ATU248K-ND	19.78	34.28	75.81	158.22	263.70
40/13	40.0	13.0	2.54	1.02	ATU4013K-ND	32.40	56.16	124.20	259.19	431.98
4/1	4.0	1.0	1.00	0.50	ATM041K-ND	6.45	11.18	24.73	51.60	86.00
8/2	8.0	2.0	1.00	0.50	ATM082K-ND	9.03	15.65	34.61	72.23	120.39
12/3	12.0	3.0	1.40	0.61	ATM123K-ND	22.24	38.56	85.28	177.96	296.60
16/4	16.0	4.0	1.78	0.76	ATM164K-ND	29.66	51.41	113.70	237.28	395.47
24/6	24.0	6.0	2.25	0.76	ATM246K-ND	23.86	41.37	91.48	190.91	318.18
32/8	32.0	8.0	2.54	1.02	ATM328K-ND	32.25	55.89	123.62	257.98	429.98
52/13	52.0	13.0	2.54	1.02	ATM5213K-ND	41.28	71.55	158.23	330.22	550.37
DWP-125 Series										
1/8	3.2	1.0	1.02	0.25	DWP018K-ND	4.50	7.80	17.26	36.02	60.04
3/16	4.8	1.5	1.40	0.51	DWP316K-ND	4.69	8.13	17.99	37.54	62.57
1/4	6.4	2.0	1.45	0.56	DWP014K-ND	5.88	10.19	22.54	47.02	78.37
3/8	9.5	3.0	1.65	0.68	DWP038K-ND	6.49	11.25	24.87	51.91	86.52
1/2	12.7	4.0	1.78	0.76	DWP012K-ND	6.48	11.24	24.86	51.88	86.47
3/4	19.1	6.0	2.03	0.76	DWP034K-ND	9.08	15.74	34.80	72.63	121.05
1	25.4	8.0	2.50	0.76	DWP001K-ND	12.65	21.92	48.48	101.16	168.61
1-1/2	38.1	13.0	2.50	0.76	DWP112K-ND	42.01	72.81	161.01	336.03	560.05
TAT-125 Series										
1/8	3.2	1.6	0.69	0.23	TAT018K-ND	4.60	7.96	17.61	36.74	61.24
3/16	4.8	2.4	0.71	0.25	TAT316K-ND	5.58	9.68	21.41	44.69	74.47
1/4	6.4	3.2	0.74	0.13	TAT014K-ND	7.01	12.14	26.84	56.02	93.37
3/8	9.5	4.8	0.74	0.13	TAT038K-ND	7.81	13.54	29.95	62.50	104.17
1/2	12.7	6.4	0.76	0.15	TAT012K-ND	9.71	16.84	37.23	77.69	129.48
3/4	19.1	9.5	0.89	0.15	TAT034K-ND	12.93	22.41	49.56	103.43	172.38
1	25.4	12.7	1.07	0.20	TAT001K-ND	12.66	21.95	48.55	101.31	168.85
1-1										