

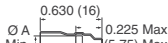
CWT-900X Series – Solder Sleeve Wire Splices



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	10.34	46.24	76.16	CWT-9001
18-16 (Red)	.105 (2.7)	1.655 (42.0)	CWT9002-ND	11.32	50.66	83.44	CWT-9002
16-12 (Blue)	.180 (4.5)	1.655 (42.0)	CWT9003-ND	11.90	53.25	87.71	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 - Min.	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Pin Diameter - Max.	Length - L		10	50	100	
.060 (1.5)	.025 (0.6)		CWT1501-ND	9.42	42.16	69.44	CWT-1501
.090 (2.3)	.035 (0.9)		CWT1502-ND	9.85	44.05	72.56	CWT-1502
.110 (2.8)	.045 (1.2)		CWT1503-ND	10.37	46.41	76.44	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	Diameter B Minimum	Length - L Nominal	Digi-Key Part No.	Pricing			Raychem Part No.
				10	50	100	
.098 (2.50)	.118 (3.00)	.965 (24.50)	CWT3W1225-ND	39.79	178.01	293.20	CWT-3-W122-5
.169 (4.30)	.189 (4.80)	1.154 (29.30)	CWT5W1225-ND	30.22	135.21	222.71	CWT-5-W122-5
.252 (6.40)	.287 (7.30)	1.280 (32.50)	CWT7W1225-ND	23.38	104.59	172.27	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	Diameter B Minimum	Length - L Nominal	Digi-Key Part No.	Pricing			Raychem Part No.
				10	50	100	
.075 (1.90)	.105 (2.65)	.65 (16.5)	S0101R-ND	25.67	114.86	189.18	S01-01-R
.105 (2.65)	.145 (3.68)	.65 (16.5)	S0102R-ND	25.32	113.28	186.59	S01-02-R
.170 (4.30)	.200 (5.08)	.65 (16.5)	S0103R-ND	26.82	120.00	197.65	S01-03-R
.235 (5.95)	.255 (6.45)	.75 (19.1)	S0104R-ND	31.90	142.72	235.06	S01-04-R
.275 (7.00)	.300 (7.60)	.75 (19.1)	S0105R-ND	37.02	165.60	272.76	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	
18-22 (Red)	.058 (1.47)	.146 (3.70)	D4060001-ND	11.78	52.70	86.80	D-406-0001
14-16 (Blue)	.092 (2.33)	.181 (4.60)	D4060002-ND	11.78	52.70	86.80	D-406-0002
10-12 (Yellow)	.138 (3.50)	.255 (6.50)	D4060003-ND	15.98	71.51	117.78	D-406-0003

NEW! 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



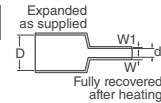
ES Caps Series – Semirigid, Adhesive-lined, Polyolefin: ES Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear ES Caps allow see-through inspection; black ES Caps are flame-retardant. • **Full Recovery Temperature:** 135°C • **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	
1/8	3.2	0.58	1.22	PDC018K-ND	7.24	31.68	54.30	PD-CAP-1/8-0
3/16	4.7	1.52	1.57	PDC0316K-ND	7.60	33.26	57.02	PD-CAP-3/16-0
1/4	6.4	2.03	1.98	PDC014K-ND	12.56	54.97	94.23	PD-CAP-1/4-0
3/8	9.5	2.29	2.08	PDC038K-ND	22.55	98.67	169.16	PD-CAP-3/8-0
1/2	12.7	2.29	2.54	PDC012K-ND	37.95	166.05	284.66	PD-CAP-1/2-0

Min. ‡ Length mm	Inside Diameter		Recov. d - Max. mm	Total W mm	Melttable W1 mm	Digi-Key Part No.	Pricing			Raychem Part No.
	Expand. D - Min. mm	Recovered d - Max. mm					100	500	1,000	
ES Caps Series - Clear										
30	5.70	1.27	1.20	0.56	0.56	ESC30C-ND	12.25	53.59	91.88	ES-CAP-NO.1-C1-X-30MM
35	5.70	1.27	1.20	0.56	0.56	ESC35C-ND	13.88	60.74	104.13	ES-CAP-NO.1-C1-X-35MM
30	7.40	1.65	1.52	0.76	0.76	ESB30C-ND	14.74	64.47	110.52	ES-CAP-NO.2-B9-X-30MM
35	7.40	1.65	1.52	0.76	0.76	ESB35C-ND	16.48	72.12	123.63	ES-CAP-NO.2-B9-X-35MM
40	10.85	2.41	1.91	1.02	1.02	ESB40C-ND	29.51	129.12	221.36	ES-CAP-NO.3-B8-X-40MM
50	10.85	2.41	1.91	1.02	1.02	ESB50C-ND	35.77	156.48	268.25	ES-CAP-NO.3-B8-X-50MM
ES Caps Series - Black										
30	5.70	1.27	1.20	0.56	0.56	ESC30K-ND	12.25	53.59	91.88	ES-CAP-NO.1-C1-0-30MM
35	5.70	1.27	1.20	0.56	0.56	ESC35K-ND	13.88	60.74	104.13	ES-CAP-NO.1-C1-0-35MM
30	7.40	1.65	1.52	0.76	0.76	ESB30K-ND	14.74	64.47	110.52	ES-CAP-NO.2-B9-0-30MM
35	7.40	1.65	1.52	0.76	0.76	ESB35K-ND	16.48	72.12	123.63	ES-CAP-NO.2-B9-0-35MM
40	10.85	2.41	1.91	1.02	1.02	ESB40K-ND	29.51	129.12	221.36	ES-CAP-NO.3-B8-0-40MM
50	10.85	2.41	1.91	1.02	1.02	ESB50K-ND	35.77	156.48	268.25	ES-CAP-NO.3-B8-0-50MM

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

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 D - Min. mm	Expand. D - Min. mm	Recov. d - Max. mm	Total W mm	Melttable W1 mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
							4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
ATUM Series											
3/2	3.0	1.0	1.00	0.50	0.50	ATU031K-ND	6.99	12.11	26.78	55.89	93.15
6/2	6.0	2.0	1.00	0.50	0.50	ATU062K-ND	10.63	18.43	40.76	85.06	141.76
9/3	9.0	3.0	1.40	0.61	0.61	ATU093K-ND	22.49	38.98	86.20	179.89	299.82
12/4	12.0	4.0	1.78	0.76	0.76	ATU124K-ND	26.77	46.40	102.62	214.16	356.93
19/6	19.0	6.0	2.25	0.76	0.76	ATU196K-ND	37.48	64.96	143.66	299.81	499.68
24/8	24.0	8.0	2.54	1.02	1.02	ATU248K-ND	27.24	47.22	104.42	217.93	363.22
40/13	40.0	13.0	2.54	1.02	1.02	ATU4013K-ND	85.51	148.22	327.80	684.10	1140.16
4/1	4.0	1.0	1.00	0.50	0.50	ATM041K-ND§	8.88	15.40	34.06	71.08	118.46
8/2	8.0	2.0	1.00	0.50	0.50	ATM082K-ND§	12.44	21.56	47.67	99.49	165.82
12/3	12.0	3.0	1.40	0.61	0.61	ATM123K-ND§	30.64	53.11	117.46	245.13	408.54
16/4	16.0	4.0	1.78	0.76	0.76	ATM164K-ND§	40.85	70.81	156.61	326.83	544.72
24/6	24.0	6.0	2.25	0.76	0.76	ATM246K-ND§	32.87	56.98	126.00	262.96	438.27
32/8	32.0	8.0	2.54	1.02	1.02	ATM328K-ND§	44.42	76.99	170.27	355.35	592.26
52/13	52.0	13.0	2.54	1.02	1.02	ATM5213K-ND§	56.86	98.55	217.95	454.85	758.08
NEW! DWP-125 Series NEW!											
1/8	3.2	1.0	1.02	0.25	0.25	DWP018K-ND	6.20	10.75	23.78	49.62	82.70
3/16	4.8	1.5	1.40	0.51	0.51	DWP316K-ND	6.46	11.20	24.78	51.71	86.18
1/4	6.4	2.0	1.45	0.56	0.56	DWP014K-ND	8.10	14.03	31.04	64.77	107.95
3/8	9.5	3.0	1.65	0.68	0.68	DWP038K-ND	8.94	15.49	34.26	71.50	119.17
1/2	12.7	4.0	1.78	0.76	0.76	DWP012K-ND	8.93	15.48	34.24	71.46	119.10
3/4	19.1	6.0	2.03	0.76	0.76	DWP034K-ND	12.51	21.68	47.94	100.04	166.74
1	25.4	8.0	2.50	0.76	0.76	DWP001K-ND	17.42	30.19	66.77	139.34	232.24
1-1/2	38.1	13.0	2.50	0.76	0.76	DWP112K-ND	57.86	100.29	221.78	462.85	771.42
TAT-125 Series											
1/8	3.2	1.6	0.69	0.23	0.23	TAT018K-ND	6.33	10.97	24.25	50.61	84.35
3/16	4.8	2.4	0.71	0.25	0.25	TAT316K-ND	7.69	13.33	29.49	61.55	102.58
1/4	6.4	3.2	0.74	0.13	0.13	TAT014K-ND	9.65	16.72	36.97	77.16	128.61
3/8	9.5	4.8	0.74	0.13</							