

# ALPHA WIRE Hook-up Wire



This product is RoHS compliant.



### COLOR CODE CHART

Colors = Ordering Suffix

\* Not available in all colors

White=01	Black=02	Red=03	Green=04	Yellow=05	Blue=06	Brown=07
Orange=08	Slate=09	Violet=10	White/Black=11	White/Red=12	White/Green=13	White/Yellow=14
White/Blue=15	White/Brown=16	White/Orange=17	White/Gray=18	White/Violet=19	Green/Yellow=28	Pink=30

## UL1007 PVC INSULATION

Temperature Range: (-40°C to 80°C UL AWM 1007) (-40°C to 105°C UL AWM 1569) Voltage Rating: 300V

Alpha Part No.	Conductor		Nominal O.D. (in.)	100 ft. Spools			1000 ft. Spools		
	AWG	Strand		MOUSER STOCK NO.	Price Per Spool		MOUSER STOCK NO.	Price Per Spool	
					1	5		1	5
<b>Solid Conductor</b>									
3050/1	24	Solid	.052	602-3050/1-100	17.27	15.35	602-3050/1-1000*	100.21	95.71
3051/1	22	Solid	.057	602-3051/1-100	20.47	17.72	602-3051/1-1000*	101.10	96.80
3053/1	20	Solid	.064	602-3053/1-100	22.75	20.49	602-3053/1-1000*	128.66	119.64
3055/1	18	Solid	.072	602-3055/1-100	30.63	27.69	602-3055/1-1000*	152.47	145.65
3057/1	16	Solid	.083	602-3057/1-100	43.19	38.87	602-3057/1-1000*	217.48	210.26
<b>Stranded Conductor</b>									
3047	30	7/38	.044	602-3047-100	18.92	17.10	602-3047-1000	118.14	103.62
3048	28	7/36	.047	602-3048-100	16.73	15.33	602-3048-1000	105.58	91.50
3049	26	7/34	.051	602-3049-100	16.53	14.57	602-3049-1000	110.21	97.96
3050	24	7/32	.056	602-3050-100	20.03	17.90	602-3050-1000	102.37	94.69
3051	22	7/30	.062	602-3051-100	21.70	19.62	602-3051-1000	104.35	93.92
3053	20	10/30	.069	602-3053-100	24.36	21.77	602-3053-1000	128.40	116.06
3055	18	16/30	.079	602-3055-100	30.63	27.69	602-3055-1000	179.93	159.18
3057	16	26/30	.092	602-3057-100	34.62	31.29	602-3057-1000	222.21	203.14

## UL1015 PVC INSULATION

Temperature Range: -20°C to 105°C Voltage Rating: 600V

3070	24	7/32	.088	602-3070-100	23.90	21.06	602-3070-1000	149.92	142.63
3071	22	7/30	.094	602-3071-100	24.70	21.96	602-3071-1000	147.17	129.22
3073	20	10/30	.101	602-3073-100	43.58	40.35	602-3073-1000	179.08	159.61
3075	18	16/30	.111	602-3075-100	33.72	30.35	602-3075-1000	221.71	188.70
3077	16	26/30	.124	602-3077-100	44.36	39.93	602-3077-1000	255.63	213.70
3079	14	41/30	.138	602-3079-100	72.32	64.63	602-3079-1000	450.04	427.74
3080	12	65/30	.157	602-3080-100*	151.67	135.03	602-3080-1000*	1011.73	966.43
3081	10	105/30	.184	602-3081-100*	165.65	145.37	-----	-	-

## UL1429 SOLDER IRON RESISTANT IRRADIATED PVC INSULATION

Operating Temperature: -55°C to 105°C (CSA AWM I A/B FT1) -55°C to 105°C (MIL-W-16878E) -55°C to 80°C (UL AWM 1429) Voltage Rating: 600/150V

7053	26	7/34	.039	602-7053-100	41.43	40.00	602-7053-1000	168.02	160.92
7054	24	7/32	.044	602-7054-100	46.58	44.35	602-7054-1000	215.67	199.57
7055	22	7/30	.050	602-7055-100*	52.28	50.48	602-7055-1000	214.62	205.19
7056	20	7/28	.058	602-7056-100*	66.03	63.76	602-7056-1000*	242.29	240.01
7057	18	7/26	.068	602-7057-100*	32.86	30.13	602-7057-1000*	383.36	370.66

## MIL-W-16878E PVC INSULATION, STRANDED CONDUCTOR

Temperature Range: -55°C to 105°C Voltage Rating: 600V

1850	32	7/40	.029	602-1850-100	60.10	57.79	602-1850-1000*	202.67	193.74
1852	28	7/36	.035	602-1852-100	30.58	28.91	602-1852-1000	119.85	113.40
1853	26	7/34	.039	602-1853-100	30.58	28.91	602-1853-1000	129.30	123.50
1854	24	7/32	.044	602-1854-100	31.32	29.44	602-1854-1000*	120.90	115.90
1854/19	24	19/36	.045	602-1854/19-100	52.62	47.36	602-1854/19-1000*	152.65	138.60
1855	22	7/30	.050	602-1855-100	35.38	31.64	602-1855-1000	130.77	124.90
1855/19	22	19/34	.052	602-1855/19-100	69.40	62.42	602-1855/19-1000*	153.65	142.80
1856	20	7/28	.058	602-1856-100	43.96	39.58	602-1856-1000	168.50	155.27
1856/19	20	19/32	.060	602-1856/19-100	66.25	61.97	602-1856/19-1000*	193.43	184.77
1857	18	7/26	.068	602-1857-100	52.69	50.87	602-1857-1000*	231.89	221.68
1857/19	18	19/30	.070	602-1857/19-100	91.45	82.31	602-1857/19-1000*	262.61	251.92
1858/19	16	19/29	.076	602-1858/19-100*	60.20	54.18	602-1858/19-1000*	302.29	293.30
1859/19	14	19/27	.091	602-1859/19-100	122.45	110.21	602-1859/19-1000	376.29	350.38

## MIL-W-16878E PTFE INSULATION

Temperature Range: -60°C to 200°C Voltage Rating: 250V

2840/7	32	7/40	.022	602-2840/7-100	45.88	44.30	602-2840/7-1000*	272.47	260.28
2841/7	30	7/38	.024	602-2841/7-100	44.32	42.71	602-2841/7-1000	263.50	260.94
2841/1	30	Solid	.022	602-2841/1-100	58.60	56.58	602-2841/1-1000	368.56	334.08
2842/7	28	7/36	.027	602-2842/7-100	55.65	51.86	602-2842/7-1000	278.20	265.73
2842/1	28	Solid	.025	602-2842/1-100	65.02	60.16	602-2842/1-1000	380.85	364.08
2842/19	28	19/40	.027	602-2842/19-100*	77.85	72.56	602-2842/19-1000*	437.25	425.59
2843/7	26	7/34	.031	602-2843/7-100	51.30	49.53	602-2843/7-1000	323.11	308.64
2843/19	26	19/38	.031	602-2843/19-100	72.64	70.14	602-2843/19-1000	434.74	415.28
2843/1	26	Solid	.028	602-2843/1-100	59.36	54.30	602-2843/1-1000	410.70	392.61
2844/7	24	7/32	.036	602-2844/7-100	56.79	52.51	602-2844/7-1000*	326.45	312.08
2844/19	24	19/36	.036	602-2844/19-100	66.82	64.51	602-2844/19-1000*	395.59	377.43
2845/7	22	7/30	.042	602-2845/7-100	79.50	74.11	602-2845/7-1000-01	465.38	444.54
2845/19	22	19/34	.042	602-2845/19-100	68.20	62.48	602-2845/19-1000*	466.14	449.85

## UL 1213 PTFE INSULATION

Temperature Range: -60°C to 200°C (UL 105°C) Voltage Rating: 600V

<b>Solid Conductor</b>									
2853/1	26	---	.036	602-2853/1-100*	58.95	53.05	602-2853/1-1000	361.54	350.69
2854/1	24	---	.040	602-2854/1-100	78.97	76.24	602-2854/1-1000*	462.45	448.57
2855/1	22	---	.045	602-2855/1-100*	88.92	85.84	602-2855/1-1000	574.44	522.84
2856/1	20	---	.052	602-2856/1-100*	121.40	103.68	602-2856/1-1000*	798.56	762.80
2857/1	18	---	.061	602-2857/1-100*	348.30	336.29	602-2857/1-1000*	2427.90	2096.78
<b>Stranded Conductor</b>									
5851	30	7/38	.032	602-5851-100	45.94	45.94	-----	-	-
5852	28	7/36	.036	602-5852-100	49.31	48.35	602-5852-1000	298.38	285.02
5853	26	7/34	.039	602-5853-100	44.67	39.92	602-5853-1000	327.00	305.03
5853/19	26	19/38	.039	602-5853/19-100	59.78	55.31	602-5853/19-1000	395.95	375.39
5854	24	19/36	.044	602-5854-100	65.05	62.82	602-5854-1000	432.88	413.50
5854/7	24	7/32	.044	602-5854/7-100	48.16	43.04	602-5854/7-1000*	304.09	294.96
5855	22	19/34	.050	602-5855-100	66.02	61.41	602-5855-1000	458.79	430.98
5855/7	22	7/30	.050	602-5855/7-100	70.86	63.32	602-5855/7-1000*	516.31	493.20
5856	20	19/32	.058	602-5856-100	86.11	76.95	602-5856-1000*	625.12	588.01
5856/7	20	7/28	.058	602-5856/7-100	97.47	92.80	602-5856/7-1000	530.46	501.06
5857	18	19/30	.069	602-5857-100	111.15	93.36	602-5857-1000	829.50	764.02
5858	16	19/29	.080	602-5858-100	135.42	121.02	602-5858-1000	974.46	947.96
5859	14	19/27	.095	602-5859-100*	232.00	207.37	602-5859-1000*	1424.90	1362.17

## UL 1180 PTFE INSULATION, STRANDED CONDUCTOR

Temperature Range: -60°C to 200°C Voltage Rating: 1000V

5874	24	19/36	.054	602-5874-100	72.85	67.53	602-5874-1000	463.58	449.67
5875	22	19/34	.060	602-5875-100	81.58	75.23	602-5875-1000	580.87	554.86
5876	20	19/32	.068	602-5876-100*	113.46	109.55	602-5876-1000	749.04	715.52
5877	18	19/30	.079	602-5877-100	144.75	132.87	602-5877-1000	923.82	883.15



Alpha Wire Wire & Cable