

# PALLAS ALUMINUM

YOUR SOURCE FOR ALUMINUM CONDUITS, COUPLINGS, NIPPLES, AND ELBOWS



REPRESENTED BY:

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Pallas Aluminum Co, offers a broad line of rigid aluminum conduit, elbows, nipples and couplings.

When your specifications call for the properties of aluminum, Pallas offers quality products at inexpensive prices.

### Why Aluminum?

- **Light Weight**

Rigid aluminum conduit is approximately one-third the weight of steel.

- **Corrosion Resistant**

Aluminum resists most corrosive atmospheres in industrial environments.

- **Easy to Install**

Aluminum conduit can be easily cut, bent and threaded without special tools.

- **Low Maintenance**

Aluminum conduit does not corrode or leave discoloring streaks or stains.

### RECOMMENDED INSTALLATION PRACTICES

**CUTTING:**

A hacksaw is recommended to cut trade sizes 1 1/4 and smaller. Larger trade sizes can be cut with power cut-off equipment.

**BENDING:**

Standard EMT benders, one size larger than the size of the conduit, should be used on conduit trade sizes 1 and smaller. For sizes over trade size 1, conventional equipment is recommended.

**THREADING:**

Sharp dies and conventional cutting oil should be used for aluminum conduit. A general purpose emulsifiable oil can provide excellent results.

**FITTINGS:**

Aluminum fittings are recommended; however, cadmium plated or galvanized fittings are satisfactory for most installations.

**FISHING AND WIRE PULLING:**

**Small Conduit:** In trade sizes up to 1 1/2 and on shorter runs (up to 100 feet), polyethylene fish tapes can be used effectively. Also recommended are round, flexible, speedometer-type steel cables. Use of flat steel tapes should be avoided since they tend to jam in the bends, or if not used carefully, scrape and cut conduit walls.

**Large Conduit:** For pulling large conductors through larger conduit or longer runs, polypropylene rope is recommended. Steel pulling cables, especially when old or frayed, can damage steel or aluminum conduit.

**IN SOIL OR CONCRETE:**

Underwriters' Laboratories Electrical Construction Equipment Directory states that aluminum conduit used in concrete or in contact with soil requires supplementary corrosion protection. Examples of supplementary protection are paints approved for the purpose, tape wraps approved for the purpose, or PVC coated conduit.

### SPECIFICATION DATA

**ALLOY:** Pallas Rigid Aluminum Conduit is manufactured of 6063 alloy aluminum in temper designation T-1. The fittings are the same alloy.

**STANDARDS:** Pallas Rigid Aluminum Conduit meets UL and CSA standards.

**THREAD PROTECTORS:** Color-Coded end caps keep threads clean and sharp and help provide trade size recognition. Even sizes are blue; 1/2 trade sizes are black; and 1/4 trade sizes are red.

## Rigid Aluminum Conduit



Catalog Number	Trade Size Designator		Approx. Wt. Per 100 Ft. (30.5M)		Nominal Outside Diameter		Nominal Wall		Quantity In Master Bundle	
	U.S.	Metric	lb.	kg	in.	mm	in.	mm	ft.	m
-										
ARC012	1/2	16	28.1	12.7	0.840	21.3	0.104	2.64	2500	762.5
ARC034	3/4	21	37.4	17.0	1.050	26.7	0.107	2.72	2500	762.5
ARC100	1	27	54.5	24.7	1.315	33.4	0.126	3.20	2000	610.0
ARC114	1-1/4	35	71.6	32.5	1.660	42.2	0.133	3.38	1000	304.8
ARC112	1-1/2	41	88.7	40.2	1.900	48.3	0.138	3.51	1000	304.8
ARC200	2	53	118.5	53.8	2.375	60.3	0.146	3.71	450	137.2
ARC250	2-1/2	63	187.5	85.0	2.875	73.0	0.193	4.90	300	91.5
ARC300	3	78	246.3	111.7	3.500	88.9	0.205	5.21	200	61.0
ARC350	3-1/2	91	295.6	134.1	4.000	101.6	0.215	5.46	200	61.0
ARC400	4	103	350.2	155.8	4.500	114.3	0.225	5.72	200	61.0
ARC500	5	129	478.9	217.2	5.563	141.3	0.245	6.22	80	23.4
ARC600	6	155	630.4	285.9	6.625	168.3	0.266	6.76	60	18.3

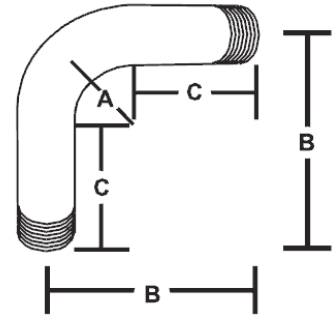
## Aluminum Couplings



Catalog Number	Trade Size Designator		Approx. Wt. Per 100 Ft. (30.5M)		Nominal Outside Diameter		Length		Standard Package
	U.S.	Metric	lb.	kg	in.	mm	in.	mm	Pieces
-									
ACP012	1/2	16	6.1	2.8	1.08	27.4	1.56	39.6	100
ACP034	3/4	21	9.1	4.1	1.33	33.8	1.62	41.1	50
ACP110	1	27	12.5	5.7	1.56	39.6	2.00	50.8	30
ACP114	1-1/4	35	18.9	8.6	1.95	49.5	2.06	52.3	25
ACP115	1-1/2	41	23.3	10.6	2.22	56.4	2.06	52.3	25
ACP120	2	53	34.6	15.7	2.75	69.8	2.12	53.8	15
ACP125	2-1/2	63	68.3	31.0	3.28	83.3	3.12	79.2	20
ACP130	3	78	91.4	41.5	3.94	100.8	3.25	82.6	15
ACP135	3-1/2	91	108.0	49.0	4.44	112.8	3.37	85.6	12
ACP140	4	103	142.0	64.4	5.00	127.0	3.50	88.9	12
ACP150	5	129	241.9	109.7	6.30	160.0	3.75	95.3	8
ACP160	6	155	321.0	145.6	7.39	187.7	4.00	101.6	6

### Aluminum Elbow — 90°

Catalog Number	Designators		Approx. Wt. Per 100 pcs.		Nominal Dimensions					
	Trade Size	Metric	lb.	kg.	A (radius)		B (height)		C (tangent)	
-					in.	mm	in.	mm	in.	mm
AE9012	1/2	16	29	13.2	4.00	101.6	6.19	157.2	2.19	55.6
AE9034	3/4	21	43	14.5	4.50	114.3	6.75	171.5	2.25	57.2
AE9110	1	27	71	32.2	5.75	146.1	8.63	219.2	2.88	73.2
AE9114	1-1/4	35	110	49.9	7.25	184.2	10.06	255.5	2.81	71.4
AE9115	1-1/2	41	153	69.4	8.25	209.6	11.56	293.6	3.31	84.1
AE9120	2	53	249	112.9	9.50	241.3	14.06	357.1	4.56	115.8
AE9125	2-1/2	63	437	198.2	10.50	266.7	16.00	406.4	5.50	139.7
AE9130	3	78	767	347.9	13.00	330.2	18.81	477.8	5.81	147.6
AE9135	3-1/2	91	1036	469.9	15.00	381.0	22.19	563.6	7.19	182.6
AE9140	4	103	1228	557.0	16.00	406.4	23.94	608.1	7.94	201.7
AE9150	5	129	2490	1129.5	24.00	609.6	36.13	917.7	12.13	308.1
AE9160	6	155	3850	1746.3	30.00	762.0	41.94	1065.3	11.94	303.3



### Aluminum Elbow — 45°

Catalog Number	Designators		Approx. Wt. Per 100 pcs.	
	Trade Size	Metric	lb.	kg.
AE4012	1/2	16	29	13.2
AE4034	3/4	21	43	14.5
AE4110	1	27	71	32.2
AE4114	1-1/4	35	110	49.9
AE4115	1-1/2	41	153	69.4
AE4120	2	53	249	112.9
AE4125	2-1/2	63	437	198.2
AE4130	3	78	767	347.9
AE4135	3-1/2	91	1036	469.9
AE4140	4	103	1228	557.0
AE4150	5	129	2490	1129.5
AE4160	6	155	3850	1746.3

