

WHEN THE SPEC SAYS "ALUMINUM", OUR COMPANY DELIVERS A COMPLETE LINE OF CONDUIT, TUBING AND FITTINGS.

These products are made by the leading manufacturer of steel conduit and tubing, now offers a broad line of rigid aluminum conduit, elbows and couplings plus aluminum electrical metallic tubing, elbows and set-screw couplings. When your specifications call for the properties of aluminum, our company delivers.

- **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.

ALUMINUM RIGID CONDUIT AND ALUMINUM EMT





RIGID ALUMINUM CONDUIT

SPECIFICATION DATA

- **ALLOY:**
Rigid Aluminum Conduit is manufactured of 6063 alloy in temper designation T-1. The fittings are of the same alloy.
- **STANDARDS:**
Rigid Aluminum Conduit is listed by Underwriters' Laboratories to U.L. 6, "Standard for Rigid Metal Conduit" and is manufactured to ANSI C80.5. (Federal specification).
- **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.

RECOMMENDED INSTALLATION PRACTICES

CUTTING:

A hacksaw is recommended to cut trade sizes 1¹/₄ 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 1¹/₂ 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* (UL Green Book) states that aluminum conduit used in concrete or in contact with soil requires supplementary corrosion protection. Examples are paints approved for the purpose (bitumastic paint, for example), tape wraps approved for the purpose, or PVC coated conduit.

RIGID ALUMINUM CONDUIT

Weights and Dimensions for Rigid Aluminum Conduit

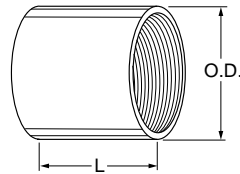
Trade Size Designator		Approximate Weight per 100 Ft. (30.5M)		Nominal Outside Diameter		Nominal Wall Thickness		Quantity In Primary Bundle		Quantity		Master Bundles Approximate Weight ¹	
U.S.	Metric	lb.	kg.	in.	mm	in.	mm	ft	m	ft	m	lb.	kg
1/2	16	28.1	12.7	0.840	21.3	0.104	2.64	100	30.5	2500	762.5	706	318.4
3/4	21	37.4	17.0	1.050	26.7	0.107	2.72	100	30.5	2500	762.5	935	424.1
1	27	54.5	24.7	1.315	33.4	0.126	3.20	100	30.5	2000	610.0	1090	494.4
1 1/4	35	71.6	32.5	1.660	42.2	0.133	3.38	50	15.2	1000	304.8	716	324.8
1 1/2	41	88.7	40.2	1.900	48.3	0.138	3.51	50	15.2	1000	304.8	887	402.3
2	53	118.5	53.8	2.375	60.3	0.146	3.71	50	15.2	450	137.2	533.3	241.9
2 1/2	63	187.5	85.0	2.875	73.0	0.193	4.90	-	-	300	91.5	567.5	257.4
3	78	246.3	111.7	3.500	88.9	0.205	5.21	-	-	200	61.0	492.6	223.4
3 1/2	91	295.6	134.1	4.000	101.6	0.215	5.46	-	-	200	61.0	591.2	268.2
4	103	350.2	155.8	4.500	114.3	0.225	5.72	-	-	200	61.0	700.4	317.7
5	129	478.9	217.2	5.563	141.3	0.245	6.22	-	-	80	23.4	383.1	173.8
6	155	630.4	285.9	6.625	168.3	0.266	6.76	-	-	60	18.3	378.2	171.6

¹ Includes one coupling on each end.

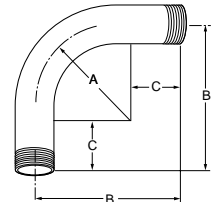
Notes:

- Dimensions and weights are nominal unless otherwise noted.
- Each length of conduit with coupling attached will be nominally 10 feet.

Couplings



Elbows



Couplings

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

Elbows

Trade Size Designator		Approximate Weight per 100 Ft. (30.5M)		Nominal Dimensions					
U.S.	Metric	lb.	kg.	A		B		C	
				in.	mm	in.	mm	in.	mm
1/2	16	29	13.2	4.0	101.6	6.50	165.1	2.50	63.5
3/4	21	43	14.5	4.5	114.3	7.25	184.2	2.75	69.9
1	27	71	32.2	5.75	146.1	8.375	212.7	2.875	73.0
1 1/4	35	110	49.9	7.25	184.2	10.25	260.6	3.00	76.2
1 1/2	41	153	69.4	8.25	209.6	11.875	301.6	3.625	92.1
2	53	249	112.9	9.50	241.3	14.00	355.6	4.50	114.3
2 1/2	63	437	198.2	10.50	266.7	15.75	400.1	5.25	133.4
3	78	767	347.9	13.00	330.2	18.75	476.3	5.75	146.1
3 1/2	91	1036	469.9	15.00	381.0	21.75	552.5	6.75	171.5
4	103	1228	557.0	16.00	406.4	23.00	584.2	7.00	177.8
5	129	2490	1129.5	24.00	609.6	36.00	914.4	11.00	279.4
6	155	3850	1746.3	30.00	762.0	42.50	1079.5	12.50	317.5



ALUMINUM EMT COUPLINGS, ELBOWS

SPECIFICATION DATA

- ALLOY:**
 Aluminum Electrical Metallic Tubing (EMT) is manufactured of 6005 alloy; 98.5% purity aluminum.
- STANDARDS:**
 Aluminum EMT and elbows are listed by Underwriters' Laboratories to U.L./ANSI 797 "Standard for Electrical Metallic Tubing". (Replaces Federal specification WW-C-563A). Aluminum set-screw couplings are listed by U.L. to U.L. 514B "Standard for Fittings for Cable and Conduit".

EMT Weights and Dimensions

Trade Size Designator		Approximate Weight per 100 Ft. (30.5M)		Nominal Outside Diameter		Nominal Inside Diameter		Quantity In Primary Bundle		Quantity In Master Bundle	
U.S.	Metric	lb.	kg.	in.	mm	in.	mm	ft	m	ft	m
2	53	57.3	26.0	2.197	55.8	2.051	52.09	On Request		On Request	
2½	63	84.6	38.4	2.875	73.03	2.711	68.85	680	207.3	1360	414.5
3	78	106.0	48.1	3.500	88.90	3.332	84.63	530	161.5	1060	323.1
3½	91	137.1	62.2	4.000	101.60	3.810	96.77	480	146.3	960	292.6
4	103	159.4	72.3	4.500	114.30	4.304	109.32	340	103.6	680	207.3

EMT Set-Screw Couplings

Trade Size Designator		Standard Pack	Nominal Weight per 100	
U.S.	Metric		lb.	kg
2	53	12	28	12.7
2½	63	12	44	19.9
3	78	12	62	28.1
3½	91	12	79	35.8
4	103	12	89	40.4

EMT Elbows

Trade Size Designator		Standard 90° Dimensions						Standard Pack	Nominal Weight per 100			
U.S.	Metric	A		B		C			45°		90°	
		in.	mm.	in.	mm	in.	mm	lb.	kg	lb.	kg	
2	53	9.5	241.3	12.250	311.2	2.75	69.85	5	45	20.4	65	29.5
2½	63	10.5	266.7	13.500	342.9	3.00	76.20	5	98	44.5	140	63.5
3	78	13.0	330.2	16.125	409.6	3.125	79.36	5	142	64.4	203	92.1
3½	91	15.0	381.0	18.250	463.6	3.25	82.55	5	211	95.7	301	136.5
4	103	16.0	406.4	19.375	492.1	3.375	85.73	5	252	114.3	360	163.3

EMT Elbows

