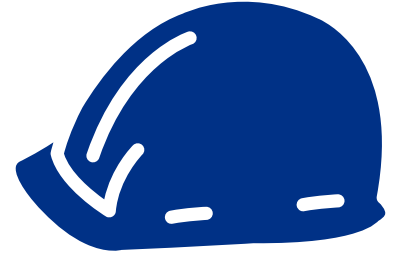


# AMERICAN CONDUIT



**RIGID ALUMINUM CONDUIT**

# RIGID ALUMINUM CONDUIT

## COSTS LESS THAN STEEL

### VERSATILE MATERIAL

- Can replace steel in virtually all locations
- Non-sparking
- Superior grounding path for safety
- Aluminum conduit meets all applicable national electrical codes – Article 500 hazardous area requirements
- ECO-friendly. No toxic substances, fumes, or coatings

### LOWER INSTALLATION COST

- Potential labor savings of 35-75% versus heavier rigid steel
- 1/3 the weight of rigid steel conduit
- Easier to carry, fabricate and install
- Less chance of a workers compensation injury
- Easy to bend, cut, and thread
- UL6A listed; equivalent to steel UL6

### SUPERIOR ATTRACTIVE APPEARANCE

- Superior performance
- Resists rust and corrosion

### NON-MAGNETIC

- Protection for sensitive environments
- De-rating advantages to improve safety and lower wire costs
- Power savings over the life of the installation



## PIPE

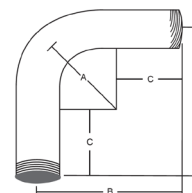
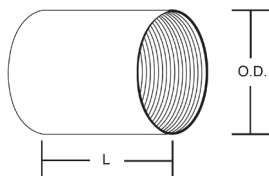
Size	Nominal Pipe Size O.D. X Wall	Outside Diameter		Wall Thickness Minimum	Length +/- 1/4 Without Coupling	Total Feet Per Bundle	Conduit Weight / Packaging		
		Min.	Max.				Wt/ Cft.	Pcs/Bndl (Interior Bndl)	Wt. of Master Bundle
1/2"	.840" X .109"	.809"	.855"	.095"	9' 11-1/4"	2500	28.1 #	250 (10)	703 #
3/4"	1.050" X .113"	1.019"	1.065"	.099"	9' 11-1/4"	2500	37.4 #	250 (10)	935 #
1"	1.315" X .133"	1.284"	1.330"	.116"	9' 11"	2000	54.5 #	200 (10)	1090 #
1-1/4"	1.660" X .140"	1.629"	1.675"	.122"	9' 11"	1000	71.6 #	100 (5)	716 #
1-1/2"	1.900" X .145"	1.869"	1.916"	.127"	9' 11"	1000	88.7 #	100 (5)	887 #
2"	2.375" X .154"	2.351"	2.399"	.135"	9' 11"	450	118.5 #	45 (5)	533 #
2-1/2"	2.875" X .203"	2.846"	2.904"	.178"	9' 10-1/2"	300	187.5 #	30 (0)	562 #
3"	3.500" X .216"	3.465"	3.535"	.189"	9' 10-1/2"	200	246.3 #	20 (0)	492 #
3-1/2"	4.000" X .226"	3.960"	4.040"	.198"	9' 10-1/4"	200	295.6 #	20 (0)	591 #
4"	4.500" X .237"	4.455"	4.545"	.207"	9' 10-1/4"	200	350.2 #	20 (0)	700 #
5"	5.563" X .258"	5.507"	5.619"	.226"	9' 10"	80	478.9 #	8 (0)	383 #
6"	6.625" X .280"	6.559"	6.691"	.245"	9' 10"	60	630.4 #	6 (0)	378 #

## COUPLING

Size	Standard Packaging	Nom. Wt/100 Pcs.	O.D. In Inches	Length In Inches
1/2"	100	6 #	1-9/16"	1-9/16"
3/4"	50	9 #	1-21/64"	1-5/8"
1"	50	12 #	9-9/16"	2"
1-1/4"	50	18 #	1-61/64"	2-1/16"
1-1/2"	50	23 #	2-7/32"	2-1/16"
2"	50	33 #	2-3/4"	2-1/8"
2-1/2"	25	69 #	3-9/32"	3-1/8"
3"	25	92 #	3-15/16"	3-1/4"
3-1/2"	10	105 #	4-7/16"	3-3/8"
4"	10	142 #	5"	3-1/2"
5"	5	234 #	6-19/64"	3-3/4"
6"	BULK	318 #	7-25/64"	4"

## ELBOW

Size	Standard Packaging	Nom. Wt/100 Pcs.	Radius (A)	Leg Length (B)	Straight Length (C)
1/2"	50	26 #	4"	6-1/2"	2-1/2"
3/4"	50	38 #	4-1/2"	7-1/4"	2-3/4"
1"	25	64 #	5-3/4"	8-3/8"	2-7/8"
1-1/4"	20	100 #	7-1/4"	10-1/4"	3"
1-1/2"	10	140 #	8-1/4"	11-7/8"	3-5/8"
2"	10	263 #	9-1/2"	14"	4-1/2"
2-1/2"	10	400 #	10-1/2"	15-3/4"	5-1/4"
3"	10	644 #	13"	18-3/4"	5-3/4"
3-1/2"	5	844 #	15"	21-3/4"	6-3/4"
4"	5	1055 #	16"	23"	7"
5"	BULK	2350 #	24"	36"	11"
6"	BULK	3700 #	30"	42-1/2"	12-1/2"



## SPECIFICATION DATA

### SPECIFICATION COMPLIANCE

- Underwriters' Laboratories UL6A, latest revision
- American National Standards Institute (ANSI) C80.5
- Federal Specification WW-C-540c.
- Canadian Standard Association CSA C 22.2 No.45

### ALLOY

6063 Aluminum Alloy, T-1 Temper.

### THREAD PROTECTORS

Rigid Aluminum Conduit is shipped with color coded thread protectors, which shield threads and simplifies size selection.

## COMPOSITION OF ALUMINUM ALLOY

The obvious choice for code approved, UL listed, non-rusting, lower cost rigid metal conduit – ALUMINUM!

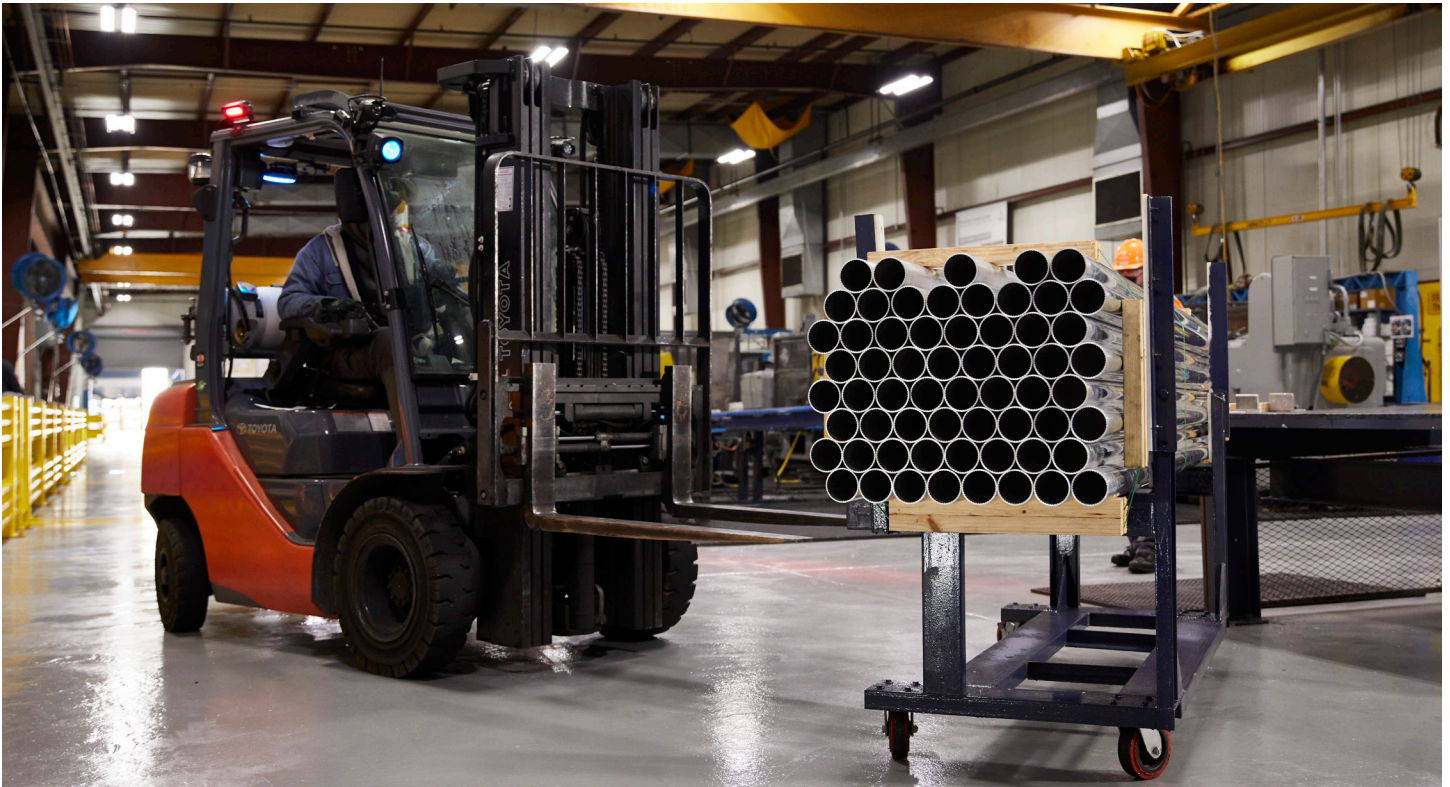
	Percentage Limits per Industry Standards	Aluminum Conduit, Typical Percentages		Percentage Limits per Industry Standards	Aluminum Conduit, Typical Percentages
<b>Copper</b>	0.10 max *	0.02	<b>Chromium</b>	0.10 max.	0.0
<b>Silicon</b>	0.20 to 0.6	0.40	<b>Titanium</b>	0.10 max.	0.01
<b>Iron</b>	0.35 max.	0.20	<b>Zinc</b>	0.10 max.	0.0
<b>Magnesium</b>	0.45 to 0.9	0.70	<b>Others</b>	0.15 max.	Trace
<b>Manganese</b>	.010 max.	0.01	<b>Aluminum</b>	Remainder	Remainder

\*Maximum limit set by the Aluminum Association. Alloys with up to 0.40% copper are acceptable to Underwriters Laboratories, Inc. for use in rigid aluminum conduit; typical conduit uses only 0.02, or 95% less. Our conduit is around 0.004%, which is just a trace and considered to be copper free, lowering corrosion.

## MANUFACTURER'S ID/PART #

Conduit Size	Part #	Coupling Size	Part #	90° Elbow Size	Part #	45° Elbow Size	Part #
<b>1/2"</b>	1-012-10-00	<b>1/2"</b>	2-012	<b>1/2"</b>	3-012	<b>1/2"</b>	3-012-45
<b>3/4"</b>	1-034-10-00	<b>3/4"</b>	2-034	<b>3/4"</b>	3-034	<b>3/4"</b>	3-034-45
<b>1"</b>	1-100-10-00	<b>1"</b>	2-100	<b>1"</b>	3-100	<b>1"</b>	3-100-45
<b>1-1/4"</b>	1-114-10-00	<b>1-1/4"</b>	2-114	<b>1-1/4"</b>	3-114	<b>1-1/4"</b>	3-114-45
<b>1-1/2"</b>	1-112-10-00	<b>1-1/2"</b>	2-112	<b>1-1/2"</b>	3-112	<b>1-1/2"</b>	3-112-45
<b>2"</b>	1-200-10-00	<b>2"</b>	2-200	<b>2"</b>	3-200	<b>2"</b>	3-200-45
<b>2-1/2"</b>	1-212-10-00	<b>2-1/2"</b>	2-212	<b>2-1/2"</b>	3-212	<b>2-1/2"</b>	3-212-45
<b>3"</b>	1-300-10-00	<b>3"</b>	2-300	<b>3"</b>	3-300	<b>3"</b>	3-300-45
<b>3-1/2"</b>	1-312-10-00	<b>3-1/2"</b>	2-312	<b>3-1/2"</b>	3-312	<b>3-1/2"</b>	3-312-45
<b>4"</b>	1-400-10-00	<b>4"</b>	2-400	<b>4"</b>	3-400	<b>4"</b>	3-400-45
<b>5"</b>	1-500-10-00	<b>5"</b>	2-500	<b>5"</b>	3-500	<b>5"</b>	3-500-45
<b>6"</b>	1-600-10-00	<b>6"</b>	2-600	<b>6"</b>	3-600	<b>6"</b>	3-600-45

For 30 degree and other elbows, contacts us at 1-800-334-6825



## RECOMMENDED INSTALLATION PRACTICES

### CUTTING

A hacksaw is recommended for trade sizes 1¼" and smaller. Power cut-off equipment is recommended for larger trade sizes.

### BENDING

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

### THREADING

Sharp dies and conventional cutting oil should be used.

### FITTINGS

Aluminum fittings are recommended, but steel fittings that are galvanized or cadmium plated, or die-cast fittings, are satisfactory for most installations.

### FISHING AND WIRE PULLING

**Small Conduit** – In trade sizes 1½" and smaller, and on shorter runs (up to 100 feet), polyethylene fish tapes and round, flexible, speedometer-type steel cables are recommended. Use of flat steel tapes should be avoided.

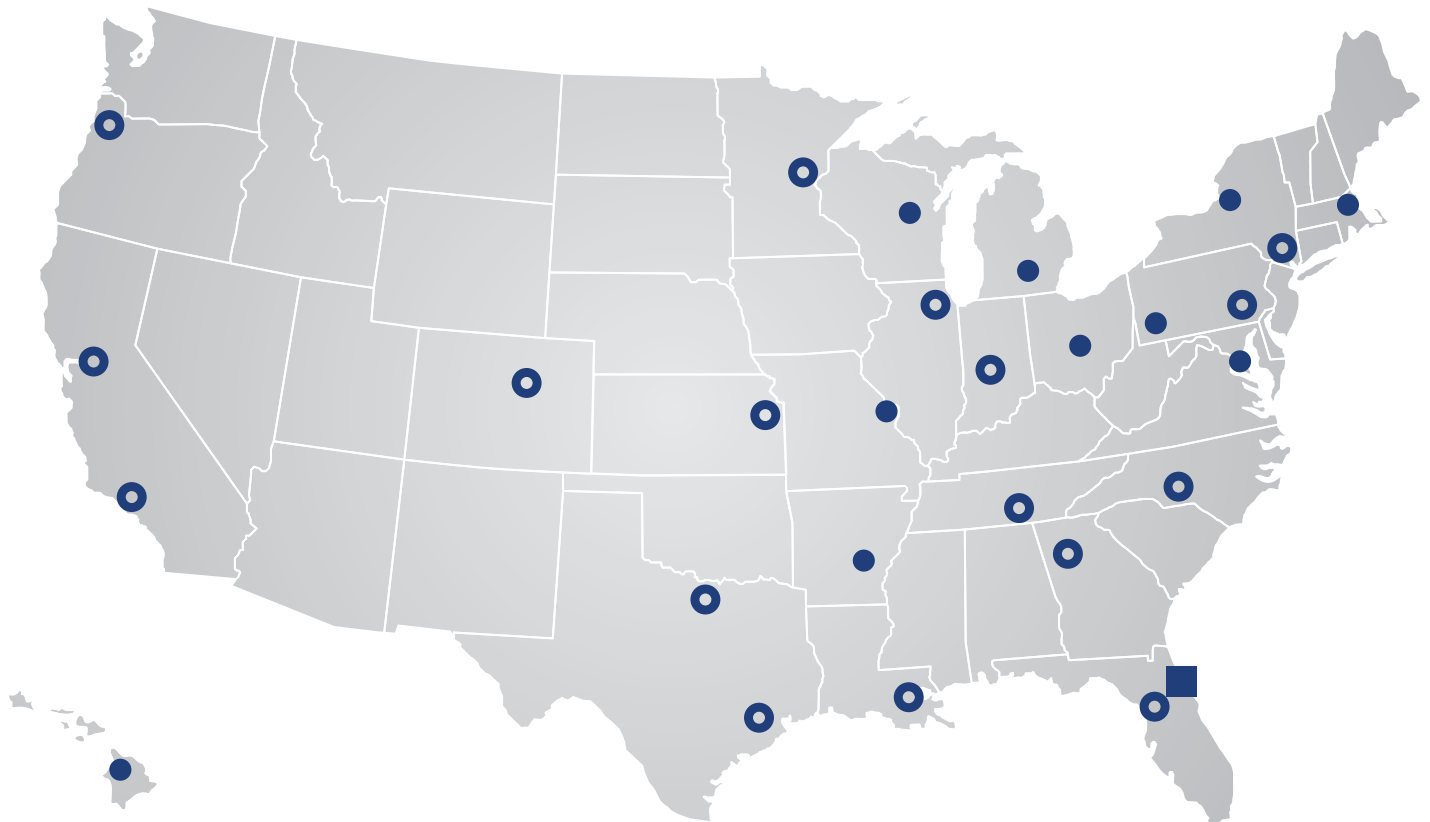
**Large Conduit** – For larger conduit or longer runs, polypropylene rope is recommended.

### SOIL OR CONCRETE INSTALLATION

Underwriters' Laboratories Electrical Construction Equipment Directory (UL Green Book) states that aluminum conduit used in concrete or in contact with soil requires supplemental corrosion protection. Examples are paints and tape wraps approved for the purpose or PVC-coated aluminum conduit.

# AMERICAN CONDUIT

- ✓ **Nationwide Distribution**
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- ✓ **Dedicated Customer Service Team**
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of US and global materials



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