

Aluminum Rigid Conduit (ARC)

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- Aluminum Rigid Conduit is light weight and is approximately one-third the weight of steel
- Corrosion Resistant aluminum resists most corrosive atmospheres in industrial environments
- Easy to install, no special tools needed to cut, bend or thread
- Low maintenance, doesn't leave discoloring streaks or stains
- Certified to Canadian Standards Association Safety Standard CSA C22.2 No.45.2
- Manufactured in accordance with ANSI C80.5
- Complete line of elbows, nipples and couplings
- Available in sizes 1/2 (16) - 6 (155)

FEATURES & SPECIFICATIONS

Codes & Standards Compliance

Alloy

Columbia-MBF Rigid Aluminum Conduit and Fittings are all manufactured of 6063 alloy in temper designation T-1 to ensure maximum performance in electrical installations. Temper T-5 conduit available in sizes 1/2 (16) through 1 (27).

Standards

Columbia-MBF Rigid Aluminum Conduit is CSA Certified to CSA C22.2 No.45.2 "Standard for Electrical Rigid Metal Conduit - Aluminum, Red Brass and Stainless Steel" and is manufactured to ANSI C80.5.

Thread Protectors

Color coded end caps keep threads clean and sharp and help provide size recognition. Even sizes are blue; 1/2 sizes are black; and 1/4 sizes are red. Temper T-5 sizes 1/2, 3/4 & 1 are green.



Aluminum Rigid Conduit (ARC)

Certified to Canadian Standards Association Safety Standard CSA C22.2 No.45.2
Manufactured in accordance with ANSI C80.5



Trade Size	Metric Designator	Outside Diameter ¹		Nominal Wall Thickness ²		Approximate Weight Per 100 Ft. (30.5M)		Bundle Quantity	
		in	mm	in	mm	lb	kg	ft	m
1/2	16	0.840	21.34	0.104	2.64	28	12.7	1000	304.8
3/4	21	1.050	26.67	0.107	2.72	37	17.0	1000	304.8
1	27	1.315	33.40	0.126	3.20	55	24.7	500	152.4
1 1/4	35	1.660	42.16	0.133	3.38	72	32.5	250	76.2
1 1/2	41	1.900	48.26	0.138	3.51	89	40.2	250	76.2
2	53	2.375	60.33	0.146	3.71	119	53.8	200	61.0
2 1/2	63	2.875	73.03	0.193	4.90	188	85.0	100	30.5
3	78	3.500	88.90	0.205	5.21	246	111.7	100	30.5
3 1/2	91	4.000	101.60	0.215	5.46	296	134.1	100	30.5
4	103	4.500	114.30	0.225	5.72	350	158.9	100	30.5
5	129	5.563	141.30	0.245	6.22	479	217.2	60	18.3
6	155	6.625	168.28	0.266	6.76	635	287.8	60	18.3

NOTE: ¹Tolerances: Size 1/2 (16) to 1 1/2 (41) +/- 0.015" (0.38mm); 2 (53) to 6 (155) +/- 1%

²For information only. Not a requirement of the CSA Standard.

Each length of conduit with coupling attached will be nominally 10' (3.05m)

NOTE: Special orders are non-cancelable, non-returnable and non-refundable.

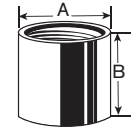
Aluminum Rigid Conduit (ARC) Couplings and Elbows

Certified to Canadian Standards Association Safety Standard CSA C22.2 No.45.2
 Manufactured in accordance with ANSI C80.5



Aluminum Rigid Conduit (ARC) Couplings

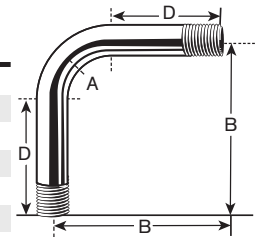
Trade Size	Metric Designator	Nominal O.D. (A) ²		Length (B) ¹		Threads Per Inch ¹	Approximate Weight Per 100 Pieces		Standard Package
		in	mm	in	mm		lb	kg	
1/2	16	1.078	27.38	1 5/8	41.3	14	6	2.7	100
3/4	21	1.328	33.73	1 41/64	41.7	14	9	4.1	50
1	27	1.562	39.67	1 31/32	50.0	11 1/2	13	5.9	25
1 1/4	35	1.953	49.61	2 1/32	51.6	11 1/2	19	8.6	25
1 1/2	41	2.219	56.36	2 1/16	52.4	11 1/2	23	10.4	25
2	53	2.750	69.85	2 1/8	54.0	11 1/2	35	15.9	15
2 1/2	63	3.281	83.34	3 3/16	81.0	8	68	30.8	8
3	78	3.812	96.84	3 5/16	84.1	8	91	41.3	6
3 1/2	91	4.438	112.71	3 13/32	86.5	8	108	49.0	6
4	103	5.000	127.00	3 33/64	89.3	8	142	64.4	5
5	129	6.219	157.96	3 61/64	100.4	8	242	109.8	1
6	155	7.312	185.74	4 1/4	108.0	8	320	145.2	1



Aluminum Rigid Conduit (ARC) 90 Degree Elbows



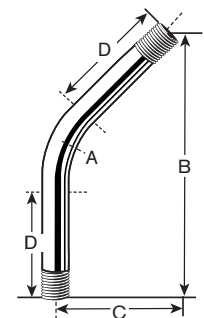
Trade Size	Metric Designator	Radius (A) ¹		Offset (B) ²		Straight (D) ¹		Approximate Weight Per 100 Pieces		Standard Package
		in	mm	in	mm	in	mm	lb	kg	
1/2	16	4	102	5 7/8	149	1 1/2	38	22	10.0	25
3/4	21	4 1/2	114	7	178	1 1/2	38	32	14.5	40
1	27	5 3/4	146	8 3/4	222	1 7/8	48	62	28.1	25
1 1/4	35	7 1/4	184	10 1/2	267	2	51	99	44.9	10
1 1/2	41	8 1/4	210	11 3/4	298	2	51	137	62.1	10
2	53	9 1/2	241	14 1/2	368	2	51	228	103.4	5
2 1/2	63	10 1/2	267	17 1/4	438	3	76	427	193.7	80
3	78	13	330	22 3/4	578	3 1/8	79	752	341.1	50
3 1/2	91	15	381	23 1/4	591	3 1/4	83	889	403.3	50
4	103	16	406	23 3/8	594	3 3/8	86	1049	475.8	36
5	129	24	610	34 7/8	886	3 5/8	92	2125	963.9	1
6	155	30	762	45 1/2	1156	3 3/4	95	3738	1695.6	1



Aluminum Rigid Conduit (ARC) 45 Degree Elbows



Trade Size	Metric Designator	Radius (A) ¹		Offset (B) ²		Offset (C) ²		Straight (D) ¹		Approximate Weight Per 100 Pieces		Standard Package
		in	mm	in	mm	in	mm	in	mm	lb	kg	
1/2	16	4	102	7	178	2 7/8	73	1 1/2	38	18	8.2	25
3/4	21	4 1/2	114	7 7/8	200	3 1/4	83	1 1/2	38	23	10.4	40
1	27	5 3/4	146	8 3/4	222	3 5/8	92	1 7/8	48	40	18.1	25
1 1/4	35	7 1/4	184	10 1/2	267	4 3/8	111	2	51	65	29.5	10
1 1/2	41	8 1/4	210	13 1/8	333	5 3/8	137	2	51	102	46.3	10
2	53	9 1/2	241	14 1/2	368	6	152	2	51	150	68.0	5
2 1/2	63	10 1/2	267	17 1/2	445	7 1/4	184	3	76	278	126.1	80
3	78	13	330	21	533	8 5/8	219	3 1/8	79	442	200.5	50
3 1/2	91	15	381	26 1/8	664	10 7/8	276	3 1/4	83	659	298.9	50
4	103	16	406	26 1/4	667	10 7/8	276	3 3/8	86	777	352.4	36
5	129	24	610	35 7/8	911	14 7/8	378	3 5/8	92	1446	655.9	1
6	155	30	762	43 3/8	1102	18	457	3 3/4	95	2347	1064.6	1



¹Minimum requirement as per CSA Standard

²For information only, not a requirement as per CSA Standard

Sizes 2 1/2 (63) and larger shipped in palletized cartons or bulk.

Aluminum elbows also available in the following Degrees (60°, 30°, 22-1/2°, 15° & 11-1/4°)