

Aluminum Rigid Conduit (ARC)

Aluminum Rigid Conduit (ARC)

- 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
- Listed to UL Safety Standard 6A
- 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

Allied Rigid Aluminum Conduits and Fittings are all manufactured of 6063 alloy in temper designation T-1 to ensure maximum performance in electrical installations.

Standards

Allied Rigid Aluminum Conduit is listed by Underwriters' Laboratories to UL 6A, "Standard for Electrical Rigid Metal Conduit — Aluminum, Red Brass and Stainless Steel" and is manufactured to ANSI C80.5 (Replaces Federal specification WWC- 540C).

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.

Aluminum Rigid Conduit (ARC)

Listed to UL Safety Standard 6A

Manufactured in accordance with ANSI C80.5



| Trade Size | Metric Designator | Outside Diameter ¹ | | Nominal Wall Thickness | | Approximate Weight Per 100 Ft. (30.5M) | | Quantity in Master Bundle | |
|------------|-------------------|-------------------------------|--------|------------------------|------|--|-------|---------------------------|-------|
| | | in | mm | in | mm | lb | kg | ft | m |
| 1/2 | 16 | 0.840 | 21.34 | 0.104 | 2.64 | 28 | 12.7 | 2500 | 762.5 |
| 3/4 | 21 | 1.050 | 26.67 | 0.107 | 2.72 | 37 | 17.0 | 2500 | 762.5 |
| 1 | 27 | 1.315 | 33.40 | 0.126 | 3.20 | 55 | 24.7 | 2000 | 610.0 |
| 1 1/4 | 35 | 1.660 | 42.16 | 0.133 | 3.38 | 72 | 32.5 | 1000 | 304.8 |
| 1 1/2 | 41 | 1.900 | 48.26 | 0.138 | 3.51 | 89 | 40.2 | 1000 | 304.8 |
| 2 | 53 | 2.375 | 60.33 | 0.146 | 3.71 | 119 | 53.8 | 450 | 137.2 |
| 2 1/2 | 63 | 2.875 | 73.03 | 0.193 | 4.90 | 188 | 85.0 | 300 | 91.5 |
| 3 | 78 | 3.500 | 88.90 | 0.205 | 5.21 | 246 | 111.7 | 200 | 61.0 |
| 3 1/2 | 91 | 4.000 | 101.60 | 0.215 | 5.46 | 296 | 134.1 | 200 | 61.0 |
| 4 | 103 | 4.500 | 114.30 | 0.225 | 5.72 | 350 | 158.9 | 200 | 61.0 |
| 5 | 129 | 5.563 | 141.30 | 0.245 | 6.22 | 479 | 217.2 | 80 | 23.4 |
| 6 | 155 | 6.625 | 168.28 | 0.266 | 6.76 | 635 | 287.8 | 60 | 18.3 |

Project Information

Company Name: _____
 Address: _____
 City: _____
 State & Zip: _____
 Phone: _____
 Project Name: _____
 City: _____
 State: _____

* Installation time will vary with job site conditions.

NOTE: ¹Tolerances: 1/2 to 1-1/2 trade sizes +/- 0.15 in. 2 to 6 trade sizes +/- 1%

*Each length of conduit with coupling attached will be nominally 10 feet

Aluminum Rigid Conduit (ARC) Couplings and Elbows

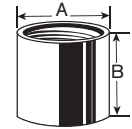
Listed to UL Safety Standard 6A

Manufactured in accordance with ANSI C80.5



Aluminum Rigid Conduit (ARC) Couplings

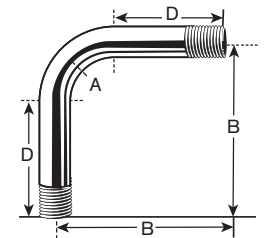
| Trade Size | Metric Designator | Nominal Outside Dimensions (A) | | Minimum Acceptable Length (B) | | Threads Per Inch | Approximate Weight Per 100 Pieces | | Standard Package |
|------------|-------------------|--------------------------------|--------|-------------------------------|-------|------------------|-----------------------------------|-------|------------------|
| | | 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 | 30 |
| 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 | 20 |
| 3 | 78 | 3.812 | 96.84 | 3 5/16 | 84.1 | 8 | 91 | 41.3 | 15 |
| 3 1/2 | 91 | 4.438 | 112.71 | 3 13/32 | 86.5 | 8 | 108 | 49.0 | 12 |
| 4 | 103 | 5.000 | 127.00 | 3 33/64 | 89.3 | 8 | 142 | 64.4 | 12 |
| 5 | 129 | 6.219 | 157.96 | 3 61/64 | 100.4 | 8 | 242 | 109.8 | 8 |
| 6 | 155 | 7.312 | 185.74 | 4 1/4 | 108.0 | 8 | 320 | 145.2 | 6 |



Aluminum Rigid Conduit (ARC) 90 Degree Elbows



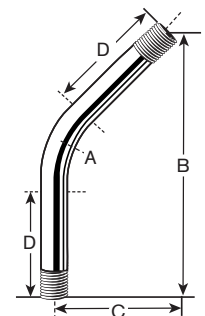
| Trade Size | Metric Designator | Nominal Dimensions | | | | | | Approximate Weight Per 100 Pieces | | Standard Package |
|------------|-------------------|--------------------|-----|------------|------|--------------|----|-----------------------------------|--------|------------------|
| | | Radius (A) | | Offset (B) | | Straight (D) | | | | |
| | | 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 | Nominal Dimensions | | | | | | | | Approximate Weight Per 100 Pieces | | Standard Package |
|------------|-------------------|--------------------|-----|------------|------|------------|-----|--------------|----|-----------------------------------|--------|------------------|
| | | Radius (A) | | Offset (B) | | Offset (C) | | Straight (D) | | | | |
| | | 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 |



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