



## Alflex™ Type RWA Reduced Wall Aluminum Flexible Metal Conduit

Aluminum Flexible Metal Conduit. High Strength Aluminum Alloy Strip. 5/16" is UL Recognized Component. UL Listed in sizes 3/8" to 4".

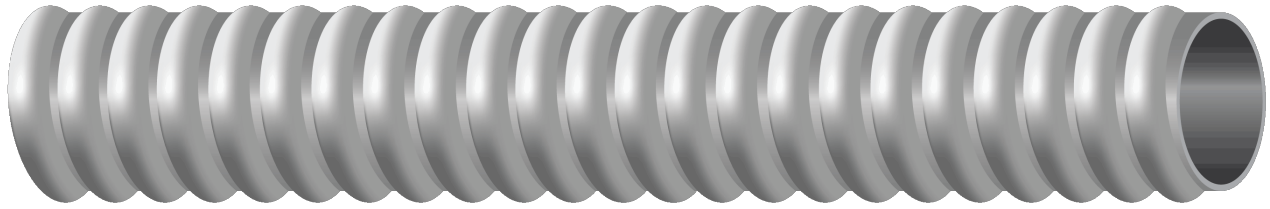


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Armor:** Alflex™ Type RWA is manufactured with a lightweight, high strength aluminum alloy. Metal strip is helically formed into continuously interlocked flexible metal conduit that can withstand impact and crushing forces.

### APPLICATIONS AND FEATURES:

Alflex™ Type RWA (Reduced Wall Aluminum) Flexible Metal Conduit is suitable for the following installations:

- Environmental air-handling spaces per NEC 300.22(C)
- Power and lighting branch circuit conductors and cables for connecting receptacles, luminaires, equipment, office partitions, etc.
- Metal raceway for wires and cables per NEC (ANSI/NFPA-70) Article 348
- Motor feeder, branch, and control circuit conductors and cables
- Class 1, Class 2, Class 3 Remote-control, signaling, and power-limited circuit conductors and cables
- Fire alarm system conductors and cables of power-limited or non-power-limited fire alarm circuits
- Voice, data, communications and video cables including CATV and optical fiber cables.
- Concealed or exposed installations per NEC 348 and the applicable NEC provisions.
- Elevators, hoistways, and escalators per NEC 620.21
- Listed wired fixtures per NEC 410.77(C)
- Raised floors for connection of information technology per NEC 645.5(D)(2) and 645.5(D)
- As a grounding conductor for lengths up to 6 feet (20A max) as per NEC 250.118(5)
- Cranes & hoists per NEC 610.11(C)
- Electric signs and outline lighting per NEC 600.7, 600.31 (1000 volts or less), and 600.32 (>1000 volts)
- Hazardous location, Class 1, Div. 2, for flexible connectors only per NEC 501.10(B)(2) & 501.30(B)
- UL 1, 2, & 3 Hour Through-Penetration Firestop Systems: C-AJ-1462, C-AJ-1463, C-AJ-1464, W-L-1308, and W-L-1309

Southwire Alflex™ Type RWA (Reduced Wall Aluminum) meets or exceeds the following requirements:

- UL Listed per UL 1, Standard for Safety for Flexible Metal Conduit, ANSI/UL-1
- Meets federal specification WW-C-566c
- NEC Type Designation - Article 348, Type FMC (flexible metal conduit)
- UL Product Category- DXUZ





- REACH/RoHS-2 (Chemical Limit) Compliant

**Features:**

- Provides mechanical protection for conductors and cable
- For use with listed connectors intended for NEC Type FMC (Flexible Metal Conduit)
- 66% lighter than steel
- Cuts 80% faster than steel
- Smooth interior for easy wire pulling
- High strength aluminum alloy construction
- Superior corrosion resistance
- Built in flexibility for simplified positioning

**Alflex™ - Type RWA**

| Trade Size | Inner Diameter (Min / Max) | Outer Diameter (Min / Max) | Weight   | Minimum Bending Radius |
|------------|----------------------------|----------------------------|----------|------------------------|
| inch       | inch                       | inch                       | lb/100ft | inch                   |
| 3/8        | 0.375 / 0.393              | 0.560 / 0.610              | 7        | 3*                     |
| 1/2        | 0.625 / 0.645              | 0.860 / 0.920              | 9        | 4                      |
| 3/4        | 0.812 / 0.835              | 1.045 / 1.105              | 13       | 5                      |
| 1          | 1.000 / 1.040              | 1.300 / 1.380              | 20       | 8                      |
| 1-1/4      | 1.250 / 1.300              | 1.550 / 1.630              | 24       | 10                     |
| 1-1/2      | 1.500 / 1.575              | 1.850 / 1.950              | 31       | 12                     |
| 2          | 2.000 / 2.080              | 2.350 / 2.450              | 40       | 16                     |
| 2-1/2      | 2.5                        | 2.860 / 3.060              | 65       | 20                     |
| 3          | 3.0                        | 3.360 / 3.560              | 77       | 24                     |

\* Suggestion only. Non-NEC requirement

**Put Ups**

| Trade Size | Stock Code  |          |          |          |          |          |          |          |          |
|------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
|            | 25 ft       | 50 ft    | 100 ft   | 150 ft   | 250 ft   | 300 ft   | 400 ft   | 500 ft   | 1000 ft  |
| 3/8        |             |          | 55082003 |          | 55082006 |          |          |          | 55082004 |
| 1/2        |             |          | 55082103 |          |          |          |          | 55082102 | 55082104 |
| 3/4        |             |          | 55082303 |          |          |          |          | 55082304 | 55082306 |
| 1          |             | 55092501 |          |          |          |          | 55092502 |          |          |
| 1-1/4      |             | 55092601 |          |          | 55092603 |          | 55092602 |          |          |
| 1-1/2      | 55092701    |          |          | 55092703 |          | 55092702 |          |          |          |
| 2          | 55-09-28-01 |          | 55092803 | 55092802 |          |          |          |          |          |
| 2-1/2      | 55106001    |          |          | 55106002 |          |          |          |          |          |
| 3          | 55106101    |          | 55106102 |          |          |          |          |          |          |

