# 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".

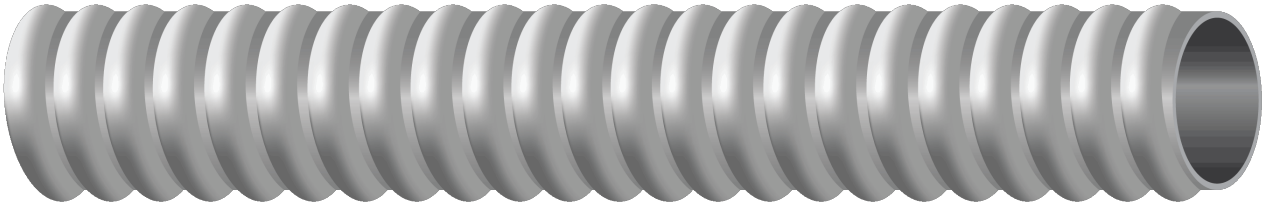


Image not to scale. See Table 1 for dimensions.

## 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


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- 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 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| inch | 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 | | | | | | |



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