



# Alflex™ Type SWA Standard Wall Aluminum Flexible Metal Conduit

Aluminum Flexible Metal Conduit. High Strength Aluminum Alloy Strip. UL and CSA Listed.

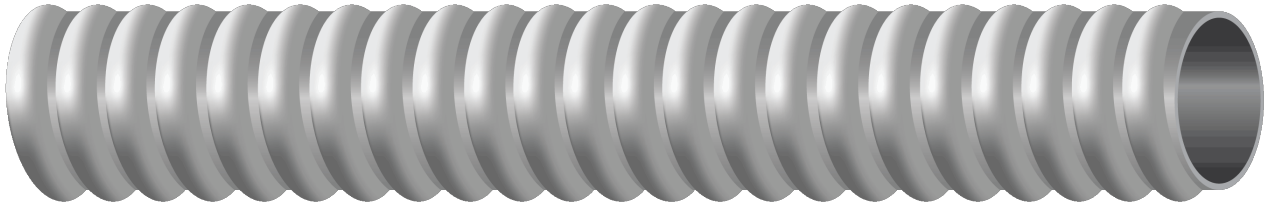


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Armor:** Alflex™ Type SWA 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 SWA (Standard 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 SWA (Standard Wall Aluminum) meets or exceeds the following requirements:

- UL Listed per UL 1, Standard for Safety for Flexible Metal Conduit, ANSI/UL-1
- CSA Listed per CSA 22.2 No. 56 per Canadian Electrical Code C22.1 Section 12-1000
- 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 SWA

| Trade Size | Inner Diam (Min/Max) | Outer Diam (Min/Max) | Weight   | Minimum Bend Radius |
|------------|----------------------|----------------------|----------|---------------------|
| Inch       | Inch                 | Inch                 | Lb/100ft | Inch                |
| 1/2        | 0.625/0.645          | 0.860/0.920          | 16       | 4                   |
| 3/4        | 0.812/0.835          | 1.045/1.105          | 21       | 6                   |

### Put Ups

| TRADE SIZE<br>(Inch) | 100 ft   | 500 ft   | 1000 ft  |
|----------------------|----------|----------|----------|
| 1/2                  | 55287001 | 55287006 | 55287005 |
| 3/4                  | 55287101 | 55287006 | 55287105 |

