

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 3".

APPLICATIONS

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)
- Places of assembly and theaters per NEC 518 and 520
- Cranes & hoists per NEC 610.11(C)
- As a grounding conductor for lengths up to 6 feet (20A max) as per NEC 250.118(5)
- 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

STANDARDS & REFERENCES

Alflex™ Type RWA Flexible Metal Conduit 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

CONSTRUCTION

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.



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One Southwire Drive, Carrollton, GA 30119, USA

| TRADE SIZE (INCHES) | STOCK NUMBER | | | DIAMETER (INCHES) | | WEIGHT (LBS/100') | MINIMUM BEND RADIUS (INCHES) |
|------------------------|-----------------------|------------------------|------------------------|----------------------|--------------------|----------------------|------------------------------------|
| | | | | INNER (MIN/MAX) | OUTER (MIN/MAX) | | |
| 5/16 | 55-28-53-01 (100') | 55-28-53-02 (1000') | | .312/.337 | .470/.510 | 5.5 | 2 |
| 3/8 | 55-08-20-03 (100') | 55-08-20-06 (250') | 55-08-20-04 (1000') | .375/.393 | .56/.61 | 7 | 2 |
| 1/2 | 55-08-21-03 (100') | 55-08-21-02 (500') | 55-08-21-04 (1000') | .625/.645 | .86/.92 | 9 | 3 |
| 3/4 | 55-08-23-03 (100') | 55-08-23-04 (500') | 55-08-23-06 (1000') | .812/.835 | 1.045/1.105 | 13 | 4 |
| 1 | 55-09-25-01 (50') | 55-09-25-02 (400') | | 1/1.04 | 1.3/1.38 | 20 | 5 |
| 1-1/4 | 55-09-26-01 (50') | 55-09-26-03 (250') | 55-09-26-02 (400') | 1.25/1.3 | 1.55/1.63 | 24 | 6.25 |
| 1-1/2 | 55-09-27-01 (25') | 55-09-27-03 (150') | 55-09-27-02 (300') | 1.5/1.575 | 1.85/1.95 | 31 | 7.5 |
| 2 | 55-09-28-01 (25') | 55-09-28-03 (100') | 55-09-28-02 (150') | 2/2.08 | 2.35/2.45 | 40 | 10 |
| 2-1/2 | 55-10-60-01 (25') | 55-10-60-02 (150') | | 2.5 | 2.86/3.06 | 65 | 12.5 |
| 3 | 55-10-61-01 (25') | 55-10-61-02 (100') | | 3 | 3.36/3.56 | 77 | 15 |
| 3-1/2 | 55-10-62-01 (25') | | | 3.5 | 3.86/4.06 | 67 | 17 |
| 4 | 55-10-63-01 (25') | | | 4 | 4.36/4.56 | 76 | 20 |

Trade size 5/16" is provided as UL Recognized construction.
 Trade sizes 3-1/2" and 4" are non-UL.
 Minimum bend radius based on NEC Chapter 9, Table 2 (other bends).

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

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Southwire®

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