**Alflex™ - Type RWA**

*(Reduced Wall Aluminum Flexible Metal Conduit)*

**APPLICATIONS**

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

- 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
- Environmental air-handling spaces per NEC 300.22(C)
- Voice, data, communications and video cables including CATV and optical fiber cables
- Concealed or exposed installations per NEC Article 348 and the applicable NEC provisions
- Elevators, hoistways, and escalators per NEC 620.21
- As a grounding conductor for lengths up to 6 feet (20A max) as per 2005 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 2005 NEC 501.10(B)(2) & 501.30(B)
- UL 1, 2, & 3 Hour Through-Penetration Firestop Sytems: C-AJ-1462, C-AJ-1463, C-AJ-1464, W-L-1308, and W-L-1309

**STANDARDS & REFERENCES**

- 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 for 5/16" and 3/8" trade sizes only
- Meets federal specification WW-C-566c
- NEC Type Designation - Article 348, Type FMC (flexible metal conduit)

**CONSTRUCTION**

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

Alflex™ is a trademark of Southwire Company.
### Trade Size

<table>
<thead>
<tr>
<th>Trade Size (Inches)</th>
<th>Approximate Weight (lbs/100 ft)</th>
<th>Inner Diameter Min./Max. (inches)</th>
<th>Outer Diameter Min./Max. (inches)</th>
<th>Minimum Bending Radius (Inches)</th>
<th>Standard Coil Length (feet)</th>
<th>Standard Reel Length (feet)</th>
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<tbody>
<tr>
<td>5/16</td>
<td>5.5</td>
<td>0.312 / -</td>
<td>0.0470 / 0.510</td>
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<td>1000</td>
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<td>7</td>
<td>0.375 / 0.393</td>
<td>0.0560 / 0.610</td>
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<td>100 / 250</td>
<td>1000</td>
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<td>0.625 / 0.645</td>
<td>0.860 / 0.920</td>
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<td>100</td>
<td>500 / 1000</td>
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<td>1.045 / 1.105</td>
<td>8</td>
<td>100</td>
<td>500 / 1000</td>
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<td>1.000 / 1.040</td>
<td>1.300 / 1.380</td>
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<td>400</td>
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<tr>
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<td>1.250 / 1.300</td>
<td>1.550 / 1.630</td>
<td>12.5</td>
<td>50</td>
<td>250</td>
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<td>1.500 / 1.575</td>
<td>1.850 / 1.950</td>
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<td>25</td>
<td>150</td>
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<td>70</td>
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<td>100</td>
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<td>2.860 / 3.060</td>
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<td>25</td>
<td>-</td>
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<td>107</td>
<td>3.000 / -</td>
<td>3.360 / 3.560</td>
<td>30</td>
<td>25</td>
<td>-</td>
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<td>3.860 / 4.060</td>
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<td>4.000 / -</td>
<td>4.360 / 4.560</td>
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</table>

Note: Trade Sizes 1-1/2” through 4” are Alflex Type SWA (Standard Wall Aluminum) FMC.

### 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

### ADDITIONAL APPLICATIONS

- 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 Articles 518 and 520
- Cranes & hoists per NEC 610.11(C)

### ONLINE CERTIFICATIONS AND TOOLS

- UL Online Certifications Directory (www.ul.com)
- CSA Online Certifications Directory (www.csa.ca)
- UL Guide Information - Flexible Metal Conduit (DXUZ)
- CSA Product Information - Flexible Metal Conduit (1811-01)