

# 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". 600 Volt

### APPLICATIONS

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

- Environmental air-handling spaces per 2011 National Electrical Code (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 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 2011 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 2011 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

- 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)
- 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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The Power of Connections.™



**Southwire**®

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

## 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 & TOOLS

- [UL Online Certifications Directory \( www.ul.com \)](http://www.ul.com)
- [CSA Online Certifications Directory \( www.csa.ca \)](http://www.csa.ca)
- [UL Guide Information - Flexible Metal Conduit \(DXUZ\)](#)
- [CSA Product Information - Flexible Metal Conduit \(1811-01\)](#)