Flexible Metal Conduits – Alflex™



Overview

Alflex™ Type RWA (Reduced Wall Aluminum) is manufactured with a lightweight, high-strength aluminum alloy. The metal strip is helically formed into a continuously interlocked flexible metal conduit that can withstand impact and crushing forces.

Features

- 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
- 66% lighter than steel

Standards and 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

Applications

- 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 348
- Motor feeder, branch, and control circuit conductors and cables
- Class 1, Class 2, and Class 3 remote-control, signaling, and power-limited circuit conductors and cables
- Fire alarm system conductors and cables in 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
- 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 (1000V or less), and 600.32 (>1000V)
- 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 and hoists per NEC 610.11(C)
- 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

Alflex Flexible Metal Conduits

Part Number	Price	Trade Size [in]	Length	Minimum Bend Radius	Ø (in [mm])		Weight (lb / 100ft)	Material
					Inside Min/Max	Outside Min/Max		
55082003	$59.00	3/8in	100ft/30.4m	2in	0.38/0.39 [9.5/9.9]	0.56/0.61 [14.2/15.5]	7	Reduced wall aluminum
55082021	$22.50		25ft/7.6m					
55082103	$87.00	1/2in	100ft/30.4m	3in	0.63/0.65 [15.9/16.4]	0.86/0.92 [21.8/23.4]	9	
55082121	$25.00		25ft/7.6m					
55082303	$100.00	3/4in	100ft/30.4m	4in	0.81/0.84 [20.6/21.2]	1.05/1.11 [26.5/28.0]	13	
55082321	$32.50		25ft/7.6m					
55092501	$98.00	1in	50ft/15.2m	5in	1.0/1.04 [25.4/26.4]	1.3/1.38 [33.0/35.0]	20	
55092601	$136.00	1-1/4in	50ft/15.2m	6.25in	1.25/1.3 [31.7/33.0]	1.55/1.63 [39.4/41.4]	24	
55092701	$99.00	1-1/2in	25ft/7.6m	7.5in	1.5/1.58 [38.1/40.0]	1.85/1.95 [46.9/49.5]	31	
55092801	$132.00	2in	25ft/7.6m	10in	2.0/2.1 [50.8/52.8]	2.35/2.45 [59.7/62.2]	40	

Flexible Metal Conduits – Galflex™



Overview

Galflex™ Type RWS (Reduced Wall Steel) is manufactured with a galvanized, corrosion resistant, high-strength steel alloy. The metal strip is helically formed into a continuously interlocked flexible metal conduit that can withstand impact and crushing forces.

Features

- Provides mechanical protection for conductors and cable
- For use with listed connectors intended for NEC Type FMC (Flexible Metal Conduit)
- Smooth interior for easy wire pulling
- High-strength steel construction
- Hot-dipped for a heavy zinc, rust/corrosion resistant coating
- Superior crush-proof qualities
- Built-in flexibility for simplified positioning

Standards and References

Galflex Type RWS Reduced Wall Steel Metal Conduit meets or exceeds the following requirements:

- UL Listed per UL-1, Standard for Safety for Flexible Metal Conduit, ANSI/UL-1 for 3/8in through 3in
- CSA Certified per CSA 22.2 No. 56 per Canadian Electrical Code C22.1 Section 12-1000 for 3/8 in trade sizes only
- Meets federal specification WW-C-566c
- NFPA 70 (National Electrical Code), Article 348, Type FMC (flexible metal conduit)
- REACH/RoHS-2 (Chemical Limit) Compliant

Applications

- 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 348
- Motor feeder, branch, and control circuit conductors and cables
- Class 1, Class 2, and 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
- 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 (1000V or less), and 600.32 (>1000V)
- 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 and hoists per NEC 610.11(C)
- 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

Galflex Flexible Metal Conduits

Part Number	Price	Trade Size [in]	Length	Minimum Bend Radius	Ø (in [mm])		Weight (lb / 100ft)	Material
					Inside Min/Max	Outside Min/Max		
55081702	$69.00	3/8in	100ft/30.4m	2in	0.38/0.39 [9.5/9.9]	0.56/0.61 [14.2/15.5]	19	Reduced wall steel
55081711	$26.00		25ft/7.6m					
55081802	$95.00	1/2in	100ft/30.4m	3in	0.63/0.65 [15.9/16.4]	0.86/0.92 [21.8/23.4]	27	
55081806	$27.00		25ft/7.6m					
55081902	$116.00	3/4in	100ft/30.4m	4in	0.81/0.84 [20.6/21.2]	1.05/1.11 [26.5/28.0]	35	
55081921	$48.50		25ft/7.6m					
55091601	$137.00	1in	50ft/15.2m	5in	1.0/1.04 [25.4/26.4]	1.3/1.38 [33.0/35.0]	57	
55091701	$183.00	1-1/4in	50ft/15.2m	6.25in	1.25/1.3 [31.7/33.0]	1.55/1.63 [39.4/41.4]	65	
55091801	$131.00	1-1/2in	25ft/7.6m	7.5in	1.5/1.58 [38.1/40.0]	1.85/1.95 [46.9/49.5]	78	
55091901	$186.00	2in	25ft/7.6m	10in	2.0/2.1 [50.8/52.8]	2.35/2.45 [59.7/62.2]	133	