

FAQ Tech Support

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1.Q: Do you have a plenum rated conduit?

1. **A:** Yes. Anamet Electrical does have a Plenum Rated Conduit for specific applications allowed by NEC. Anamet has conduit rated for use in Plenum Areas in Information Technology Equipment, as is permitted under raised floors in Accordance with [NEC Article 645.5 \(E\) \(2\)](#).

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2. Q: Do you have a Sunlight (UV) Resistant rated conduit?

2. **A:** Yes, All Anaconda SEALTITE® conduits are Sunlight (UV) resistant. All UL Listed Liquidtight Conduits are tested in accordance with UL STANDARD 360 "Liquidtight Flexible Metal Conduit" All Anamet Electrical non-UL Listed conduits have UV Resistant material added to the cover.

[More information about Sunlight Resistance:](#)

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3. Q: Do you have Halogen Free SEALTITE®?

3. **A:** Yes Anamet SEALTITE® Types ZHUA, XTHF and Shieldtite® Z1 are Halogen Free Conduits.

[More Information about Halogen Free](#)

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4. Q: What tests are performed on your conduits?

4. **A:** The UL Listed, CSA Certified, conduits have been tested to CSA Standard C22.2 and UL Standard 360 Liquid Tight Flexible Metal Conduit, to meet the requirements of the NEC. Tests include Resistance, Fault current, Impact, Tension, Crushing, Direct Burial, Flexibility, Vertical Flame, Physical properties of thermoplastic jacket, deformation, Mechanical Water Absorption, Moisture penetration, and sunlight resistance.

[More Information about "Listed" Raceways](#)

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5. Q: Do you have an Explosion Proof rated conduit?

5. **A: NO, Explosion Proof is a Class I Division I Rating**
Anaconda SEALTITE® is suitable for use In Class I Division II locations, Class II Division 1 & 2, and Class III Division 1 & 2.

UL Listed and CSA Certified Anaconda SEALTITE® is tested and approved for use in Hazardous locations in USA and Canada.

Hazardous areas have different classifications.

Anaconda SEALTITE® is not suitable to use for Class I Division I locations.

Anaconda SEALTITE® has been manufactured to meet requirements of CSA Standard C22.2, UL standard 360 Liquid-tight Flexible Metal Conduit Type LFMC.

UL Listed, and CSA Certified conduits are suitable for use in accordance with CSA Canadian Electrical Code part I and Article 350 of the National Electrical Code (NEC) and other articles of the NEC

Some manufactures of Class I Division I Flexible Couplings:

Since electrical codes vary by local Jurisdiction, Anamet Electrical cannot interpret local codes so it is up to the local authority having jurisdiction.

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6. Q: What fittings do you recommend with LFMC SEALTITE®?

6. **A:** All the stainless steel, nickel plated brass, and steel fittings listed on Anametelectrical.com Website will fit our standard conduit. The exception is non-metallic Type-A (CNP).

SEALTITE® fittings

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7. Q: What fittings do you recommend with type CNP conduit?

7. **A:** SEALTITE® Type CNP uses fittings for Non-Metallic Type "A" conduit. Listed on ANAMET Electrical Inc. Website.

Fittings for Type "A" CNP Non-Metallic, conduit

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8. Q: Do you have fittings for NMUA Type "B" conduit?

8. **A:** Yes, Fittings for Type NMUA Non-Metallic, 3/8" thru 2" Straight and 90° fittings Listed on Anamet Electrical Inc., Website

Fittings for Type "B" non-metallic conduit

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9. Q: What is the voltage rating of SEALTITE® conduit?

9. A: 1000 Volts nominal.

In 2013 UL and the NEC removed the 600 volt max rating for flexible conduits.

The 2014 NEC has a 1,000 volt maximum rating listed in Articles that have special applications for the installation 1000 volts nominal in specified sections that had the 600 volt Nominal

All of Anamet Electrical SEALTITE® is rated for 1,000 volts.

The NEC allows Liquid-tight Flexible Metal Conduit in specific applications for voltages over 1000 volts nominal.

Article 430 section XI, Over 1000 volts, Nominal

430.223 Motors, Motor Circuits

Article 600.32 (A) (1) Electric Sign Circuits over 1000V

UL has removed the 600 volt Nominal rating from the test standards and online certification directory.

2014 NEC changed from 600 volt nominal to 1000 volts nominal in specified sections that had the 600 volt Nominal for photo voltaic (PV) Systems . also remove the 600 volt Nominal for flexible conduits.

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10. Q: Does SEALTITE® require a bonding wire?

10. A: Bonding 6 ft. lengths or less

Where flexibility is not required after installation LFMC shall be permitted to be used as an equipment grounding conductor when installed in accordance with Article 250.118(6)

Sizes 3/8" thru 1-1/4" May be used for equipment grounding in lengths up to 6 ft. when installed in accordance with the NEC.

Liquid-Tight Flexible Metal Conduit can be installed in unlimited lengths. When installed in lengths over 6 ft. length, all sizes require an internal or external bonding/ground conductor.

Sizes 1-1/2" thru 4" all lengths require an internal or external bonding/grounding conductor.

[More information about Bonding](#)

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11. Q: What is difference in Type UA and EF SEALTITE® conduits?

11. A: The difference between type EF / EFST and the UL Listed types UA, HTUA, CW and ZHUA is the construction of the metal core and the cover compound.

The core material in the UL Listed conduits is made with a thicker metal with thicker galvanizing than the type EF / EFST. The UL listed conduits in sizes 3/8” through 1-1/4” are constructed with an Integral bonding wire wound into the convolution of the strip. The UL Listed conduits have a flame resistant cover compound.

Type EF / EFST is made with a lighter metal core and is not tested to UL requirements. Type EF has a cover compound that is not classified as flame resistant. Cover compounds for the EF have sunlight resistant material added.

UL Listed conduits are tested to UL Standard 360 Liquid-Tight Flexible Metal Conduit. UL Listed conduit as “LISTED” is suitable for use in accordance with NEC Article 350, for Liquid-Tight Flexible Metal Conduit (LFMC) and other Articles of the NEC.

CSA Certified conduits are suitable for use in accordance with CSA Canadian Electrical Code C22.2.

[More Information about UL “Listed”](#)

The UL Listed conduits that Anamet Electrical sells have passed all UL Testing.

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12. Q: How much tension can be exerted on SEALTITE®?

12. A: Conduit Tension Test UL 360 paragraph 11

Finished conduit shall be capable of withstanding an axial tension of 300 lbf. For 60 seconds.

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13. Q: How much tension can be exerted on SEALTITE® fittings?

13. A: Test for Secureness of Fittings UL 360 paragraph 22

Finished conduit with fittings shall be capable of withstanding a load of 150 lbf. Between each fitting and the conduit for 5 minutes.

UL Listed conduits are tested to UL Standard Liquid-Tight Flexible Metal Conduit for the following Performance Requirements: Resistance Test, Fault Current Test, Impact Test, Tension Test, Crushing Test, Pipe Stiffness for Direct Burial, Flexibility Test, Zinc Coating Test, Vertical Flame Test, Physical Properties of Thermoplastic Jacket, Deformation Test, Mechanical Water Absorption Test, Moisture Penetration Test, Sunlight Resistance Test, Secureness of Fittings Test, Test for Durability of Ink Printing.

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14. Q: Can SEALTITE® be buried in concrete?

14. A: Yes, SEALTITE® has been tested for the Direct Burial rating in Earth or Concrete.

According to the NEC Article 350 Liquidtight Flexible Metal Conduit.

Article 350.1 Scope

Liquidtight flexible metal conduit (LFMC) is intended for use in wet locations or where exposed to oil or coolants, at a maximum temperature of 176°F – 80°C. LFMC is not intended for use where exposed to gasoline or similar light petroleum solvents unless so marked on the product. If properly marked for the application, LFMC is permitted for direct burial in earth and concrete.

Article 350.12 Uses Not Permitted

LFMC shall not be used as follows:

(1) Where subject to physical damage

Backfill for Direct Burial Rated Conduit.

Article 300.5 Underground Installations

Article 300.5(D) Enclosure or raceway Damage

300.5(D) Protection from Damage. Direct-buried conductors and cables shall be protected from damage in accordance with 300.5(D)(1) through (D)(4).

300.5(D)(4) Enclosure or Raceway Damage. Where the enclosure or raceway is subject to physical damage, the conductors shall be installed in rigid metal conduit, intermediate metal conduit, RTRC-XW, Schedule 80 PVC conduit, or equivalent.

Article 300.5(F) Backfill

(F) Backfill. Backfill that contains large rocks, paving materials, cinders, large or sharply angular substances, or corrosive material shall not be placed in an excavation where materials may damage raceways, cables, or other substructures or prevent adequate compaction of fill or contribute to corrosion of raceways, cables, or other substructures. Where necessary to prevent physical damage to

the raceway or cable, protection shall be provided in the form of granular or selected material, suitable running boards, suitable sleeves, or other approved means.

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15. Q: What is the IP / NEMA enclosure Rating of SEALTITE® with Fittings?

15. A: IEC 60529 Clause 6 rating for the conduit should be listed as IP66 / IP67 when installed with IP66 / IP67 rated Fittings.

Most Flexible Conduit manufacturers only use the single designation IP67 when it should be the dual designation IP66 / IP67 for the Liquid-Tight Flexible Metal Conduits.

The conduit has an extruded cover that will withstand water spray or immersion, the fitting rating is necessary for the completed assembly.

Type MTC is IP65 Rated when using IP66 / IP67 fittings.

[More Information about IP Rating Vs NEMA Enclosure Rating](#)

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16. Q: Does Anamet Electrical have a FOOD GRADE Rated conduit?

16. A: YES: Anamet conduits are approved for food zone-non contact.

[Anamet Electrical Inc. Food Grade White Paper](#)

Anamet Electrical Inc. Food Grade Cover Colors approved by NSF

LFMC Food Grade colors available Orange, Black, Blue, Green, Purple, Red, White and Yellow.

LFNC Non-Metallic Food Grade Colors Available: Orange, Black, Blue, Green, Purple, Red, White, Pink and Yellow.

[NSF ANSI 169 Special Purpose Food Equipment and Devices](#)

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17. Q: Can SEALTITE® be stored in an outside Conex container

17. A: Limited time for Outside storage:

Types UA and CW have an 80°C or 176°F temperature rating.

Storage in a closed CONEX container can exceed the rated temperature for the conduit (like an oven), this would be acceptable for a few weeks on a construction site.

Normally if the conduit is installed outside it would have fittings installed which would keep moisture out.

CONEX containers are not air tight but will allow moisture in with temperature changes also exposing the inside of conduit to moisture

When installed outside the conduit is normally in free air circulation so the temperature rating is not exceeded for long periods even in direct sunlight.

Long term storage in a closed CONEX Container is not recommended.

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18. Q: Do you have Material Safety Data Sheets for your products?

18. A: No, MSDS's are not required for Articles.

[More Information about MSDS's](#)

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19. Q: Are Anamet Electrical Inc. Products RoHS and REACH Compliant?

19. A: Yes, Anamet Electrical Inc. Products are RoHS and REACH Compliant.

[More Information about RoHS and REACH](#)

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20. Q: Does Anamet Electrical have LEED Green Building Rated conduit?

20. A: No, Anamet Electrical SEALTITE® is not LEED Rated.

[NEMA Bulletin for more information.](#)

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21. Q: How do I determine the length of conduit for Expansion Joint?

21. A: More Information for SEALTITE® used in Structural Joints.

[NEMA Bulletin No. 108, Application of Flexible Conduit for Structural Joints.](#)

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22. A: The required torque for Liquid-tight Flexible Metal Conduit fittings

Torque Table

Trade size of fitting	Tightening torque (lb-ft.)
3/8"	19.6
1/2"	25.0
3/4"	41.7
1"	58.3
1-1/4"	83.3
1-1/2"	100.0
2"	133.3
2-1/2"	133.3
3"	133.3
3-1/2"	133.3
4"	133.3

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23. Q: What Size Knockouts are required for your Fittings?

23. A: The required knockout sizes for ANAMET Fittings can be found in the link below.

[NEMA Bulletin No. 71 Knockout Diameters](#)

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