

# Ultratite® - Type NM

(Liquidtight Flexible Nonmetallic Conduit)

Liquidtight Flexible Nonmetallic Conduit. UL/CSA Listed.  
Oil-Resistant. Sunlight-Resistant. Crush-Resistant.  
Temperature Rated -30°C to 80°C.



## APPLICATIONS

Ultratite® Liquidtight Flexible Nonmetallic Conduit is suitable of the following installations:

- For the installation and protection of electrical conductors in circuits of 600 volts nominal, or less
- Motor circuits - for conductors of motor feeders, branch and control circuits
- Where the conditions of installation, operation, or maintenance require flexibility or protection from liquids, vapors, solids, or weather
- Agricultural buildings per NEC® 547.5
- Used in industrial and commercial applications for conveyors, blowers, cranes, air conditioners, machine tooling and lubrication equipment
- Exposed or concealed installations
- Applications requiring movement, crossover connections, or tight bends
- For direct burial and encased in concrete
- For flexible connections to swimming pool, spa, and hot tub motors per 2011 NEC® 680.21(A)(3) & 680.42(A)(1)
- Electric signs and outline lighting supply and secondary-circuit conductors per 2011 NEC® 600.7, 600.31 (1000 volts or less) & 600.32 (over 1000 volts)
- Hazardous locations - see Additional Applications Section on the following page for more details

## STANDARDS & REFERENCES

- NEC® Type designation - Type LFNC-B (Liquidtight Flexible Nonmetallic Conduit)
- ANSI / NFPA-70, NEC® Article 356
- UL Listed to Underwriters Laboratories Standard UL 1660
- Approved by Canadian Standards Association

## CONSTRUCTION

Ultratite® Type NM is manufactured with a spiral of rigid PVC reinforcement imbedded within a flexible PVC wall. The construction provides excellent impact and crush strength while remaining highly flexible. The conduit resists oils, mild acids and exposure to sunlight.

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™Ultratite is a trademark of Southwire Company.

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Trade Size (Inches)	Approximate Weight (lbs/100 ft)	Inner Diameter Min./Max. (inches)	Outer Diameter Min./Max. (inches)	Approx. Bend Radius* (Inches)	Standard Coil Length (feet)	Standard Reel Length (feet)
3/8	10.5	0.484 / 0.504	0.690 / 0.710	4	100	600
1/2	13	0.622 / 0.642	0.820 / 0.840	4	100	1000
3/4	18	0.820 / 0.840	1.030 / 1.050	5	100	1000
1	27	1.041 / 1.066	1.290 / 1.315	6	100	400
1-1/4	34	1.380 / 1.410	1.630 / 1.660	8	50	250
1-1/2	45	1.575 / 1.600	1.865 / 1.900	10	50	150
2	64	2.020 / 2.045	2.340 / 2.375	12	50	100

\* Minimum bend radius based on NEC Chapter 9, Table 2 (other bends) per Article 356.

## FEATURES

- A protective combination of thermoplastic materials formed into a conduit/raceway which seals out water, liquids, abrasives, alcohol, coolants, corrosive fumes and gases, dirt, grease, mineral acids, non-concentrated fixed alkalines, petroleum oils, salt air and spray, and weather
- Smooth interior for easy wire pulling
- UV sunlight resistant jacket
- Rated for temperature range of -30°C to 80°C , 60°C Oil (-22 to +176, 140°F Oil)
- Accepts standard liquid-tight fittings for use with LFNC-B

## ADDITIONAL APPLICATIONS

- In Hazardous Locations - where necessary for flexible connections within hazardous locations in accordance with the following:
  - Class I, Div. 2 - NEC® 501.10(B)(2)
  - Class II, Div. 1 - NEC® 502.10(A)(2)
  - Class II, Div. 2 - NEC® 502.10(B)(2)
  - Class III, Div. 1 - NEC® 503.10(A)(2)
  - Class III, Div. 2 - NEC® 503.10(B)
- Floating building feeders and services per NEC® 553.7
- Boatyards & Marinas in accordance with NEC® 555.13
- Cranes & Hoists in accordance with NEC® 610.11(C)
- For Elevator, Dumbwaiters, Escalators, Moving Walks, Wheel Chair Lifts & Stairway Chair Lifts in accordance with NEC® 620.21 (where expressly permitted)
- Under raised floors in information technology equipment conductors and cables in accordance with NEC® 645.5 (D) & 645.5(D)(2)
- Service entrance in lengths up to six feet per NEC® 230.43(15)
- For containment of 600 Volt and lower potential circuits
- Approved for use in lengths longer than 6 feet per NEC® 356.10(5)
- Motor leads per NEC® 430.145(B)



**Southwire**  
One Southwire Drive  
Carrollton, Ga. 30119 USA



greenSpec™  
RoHS Compliant

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## ONLINE CERTIFICATIONS AND 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 Non-Metallic Conduit, Liquid-tight \(DXOQ\)](#)
- [CSA Product Information - Conduit-Flexible Nonmetallic, Liquid-Tight Conduit \(1813-01\)](#)

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