

# Ultratite® Type NM



**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
- 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 NEC® 680.21(A)(3) & 680.42(A)(1)
- Electric signs and outline lighting supply and secondary-circuit conductors per 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
- REACH/RoHS-2 (Chemical Limit) Compliant

## CONSTRUCTION

Ultratite® Type NM is manufactured with 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.

™Ultratite is a trademark of Southwire Company.



The Power of Connections.™

©2016 Southwire Company, LLC. All rights reserved. ®Registered Trademark of Southwire Company, LLC.  
One Southwire Drive, Carrollton, GA 30119, USA



**Southwire®**

TRADE SIZE (INCHES)	STOCK NUMBER		DIAMETER (INCHES)		WEIGHT (LBS/100')	APPROX. BEND DIAMETER (INCHES)
			INNER (MIN/MAX)	OUTER (MIN/MAX)		
<b>GRAY</b>						
3/8	55-09-41-01 (100')	55-09-41-06 (600')	.484/.504	.69/.71	11	4
1/2	58-04-62-01 (100')	55-09-42-02 (1000')	.622/.642	.82/.84	13	6.5
3/4	58-04-63-01 (100')	55-09-43-03 (1000')	.82/.84	1.03/1.05	18	8.5
1	55-09-44-01 (100')	55-09-44-04 (400')	1.041/1.066	1.29/1.315	26	13
1-1/4	55-09-45-01 (50')	55-09-45-04 (250')	1.38/1.41	1.63/1.66	31	16
1-1/2	55-09-46-01 (50')	55-09-46-04 (150')	1.575/1.6	1.865/1.99	45	18
2	55-09-48-01 (50')	55-09-48-04 (100')	2.02/2.045	2.34/2.375	62	22
* 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)

The Power of Connections.™



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

# Ultratite® Type NM



**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
- 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 NEC® 680.21(A)(3) & 680.42(A)(1)
- Electric signs and outline lighting supply and secondary-circuit conductors per 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
- REACH/RoHS-2 (Chemical Limit) Compliant

## CONSTRUCTION

Ultratite® Type NM is manufactured with 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.

™Ultratite is a trademark of Southwire Company.



The Power of Connections.™

©2016 Southwire Company, LLC. All rights reserved. ®Registered Trademark of Southwire Company, LLC.  
One Southwire Drive, Carrollton, GA 30119, USA



**Southwire®**

TRADE SIZE (INCHES)	STOCK NUMBER		DIAMETER (INCHES)		WEIGHT (LBS/100')	APPROX. BEND DIAMETER (INCHES)
			INNER (MIN/MAX)	OUTER (MIN/MAX)		
<b>GRAY</b>						
3/8	55-09-41-01 (100')	55-09-41-06 (600')	.484/.504	.69/.71	11	4
1/2	58-04-62-01 (100')	55-09-42-02 (1000')	.622/.642	.82/.84	13	6.5
3/4	58-04-63-01 (100')	55-09-43-03 (1000')	.82/.84	1.03/1.05	18	8.5
1	55-09-44-01 (100')	55-09-44-04 (400')	1.041/1.066	1.29/1.315	26	13
1-1/4	55-09-45-01 (50')	55-09-45-04 (250')	1.38/1.41	1.63/1.66	31	16
1-1/2	55-09-46-01 (50')	55-09-46-04 (150')	1.575/1.6	1.865/1.99	45	18
2	55-09-48-01 (50')	55-09-48-04 (100')	2.02/2.045	2.34/2.375	62	22
* 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)

The Power of Connections.™



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