

Titan® - Type UL

(Liquidtight Flexible Metal Conduit)

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



APPLICATIONS

Titan® Type UL Liquidtight Flexible Metal Conduit is suitable for the following installations:

- For the installation and protection of electrical conductors in circuits of 600 Volts nominal, or less
- Used in industrial and commercial applications for conveyors, blowers, cranes, air conditioners, machine tooling and lubrication equipment
- Where the conditions of installation, operation, or maintenance require flexibility or protection from liquids, vapors, solids, or weather
- Applications requiring movement, crossover connections, or tight bends
- Exposed or concealed locations
- For use as a grounding conductor per NEC® 250.118(7)
- 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 per 2011 NEC® 600.31 (1000 Volts or less) & NEC® 600.32 (over 1000 Volts)
- For use in Hazardous locations - see Additional Applications Section on following page for more details

STANDARDS & REFERENCES

- NEC® Type designation - Type LFMC (Liquidtight Flexible Metal Conduit)
- ANSI / NFPA-70, NEC Article 350
- UL Listed to Underwriters Laboratories Standard ANSI / UL-360 for Liquidtight Flexible Steel Conduit
- CSA Listed to CSA 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300

CONSTRUCTION

Titan® Type UL is manufactured with a spiral wound strip of heavy gauge, corrosion-resistant, hot-dipped galvanized steel. For 3/8" through 1-1/4" trade sizes, the core is constructed with a square locked steel strip with an integral copper-bonding strip enclosed within the steel convolutions. For 1-1/2" through 4" trade sizes, the core is constructed with a fully interlocked steel strip. A rugged, flame retardant, flexible PVC jacket is extruded over the steel core. The grey jacket resists oils, mild acids and exposure to sunlight. Also available in other colors subject to minimum runs.



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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	27	0.484 / 0.504	0.690 / 0.710	4	100	600
1/2	31	0.622 / 0.642	0.820 / 0.840	4	100	500/1000
3/4	40	0.820 / 0.840	1.030 / 1.050	5	100	500/1000
1	76	1.041 / 1.066	1.290 / 1.315	6	100	400
1-1/4	102	1.380 / 1.410	1.630 / 1.660	8	50	250
1-1/2	103	1.575 / 1.600	1.865 / 1.900	10	50	150
2	145	2.020 / 2.045	2.340 / 2.375	12	50	100
2-1/2	197	2.480 / 2.505	2.840 / 2.875	15	25	100
3	265	3.070 / 3.100	3.460 / 3.500	18	25	-
3-1/2	300	3.500 / 3.540	3.960 / 4.000	21	25	-
4	333	4.000 / 4.040	4.460 / 4.500	24	25	-

* Minimum bend radius based on NEC Chapter 9, Table 2 (other bends) per Article 350.

FEATURES

- A protective thermoplastic outer jacket which seals out water, liquids, abrasives, alcohol, coolants, corrosive fumes and gases, dirt, grease, mineral acids, nonconcentrated fixed alkalines, petroleum oils, salt air and spray, and weather
- Smooth metal interior for easy wiring pulling
- UV sunlight resistant jacket
- Rated for temperature range of -30°C to 80°C, 60°C Oil (-22°F to +176°F, 140°F Oil)
- Accepts standard metallic liquidtight fittings
- Rated for direct burial applications including concrete encasement

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) & 501.30(B)
 - Class II, Div. 1 - NEC® 502.10(A)(2) & 502.30(B)
 - Class II, Div. 2 - NEC® 502.10(B)(2)
 - Class III, Div. 1 - NEC® 503.10(A)(2) & 503.30(B)
 - Class III, Div. 2 - NEC® 503.10(A)(2)
- Permitted for equipment grounding in sizes 3/8" through 1-1/4" in lengths not exceeding 6 feet per NEC® 250.118(6)
- Floating building feeders and services per NEC® 553.7(B)
- Boatyards & Marinas in accordance with NEC® 555.13
- Cranes & Hoists in accordance with NEC® 610.11(C)



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- 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 data processing areas per NEC® 645.5(D) & 645.5(D)(2)
- Service entrance in lengths up to six feet per NEC® 230.43(15)

ONLINE CERTIFICATIONS AND TOOLS

- UL Online Certifications Directory (www.ul.com)
- CSA Online Certifications Directory (www.csa.ca)
- UL Guide Information - Flexible Metal Conduit, Liquidtight (DXHR)
- CSA Product Information - Conduit-Flexible Metal, Liquidtight Conduit (1812-03)



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