Titan2™ Type UL Liquidtight Flexible Metal Conduit

Liquidtight Flexible Metal Conduit Metal Conduit. UL Listed. CSA Listed. Oil-Resistant. Sunlight-Resistant. Temperature Rated -55ºC to 80ºC

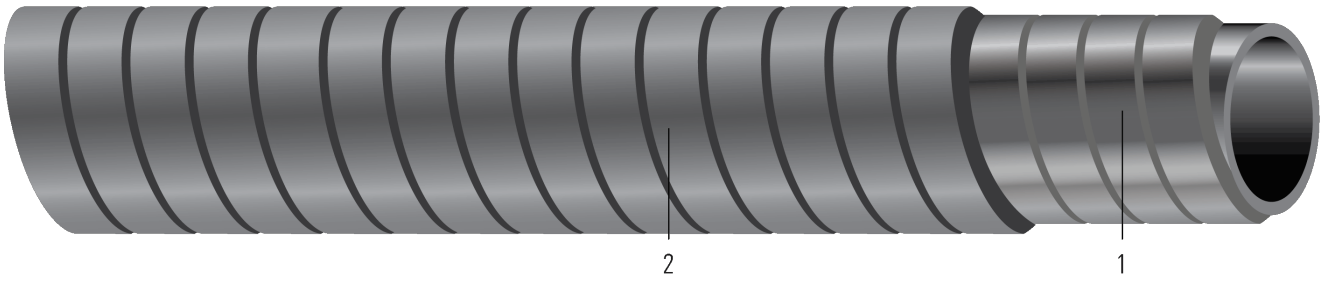

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Armor:** Titan2™ 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.
2. **Jacket:** A rugged, flame retardant, gray flexible PVC jacket is extruded over the steel core. The jacket provides protection from liquids, oil, certain chemicals, temperature, extreme weather and sunlight.

APPLICATIONS AND FEATURES:

Titan2™ Type UL is suitable for the following installations:

- For extreme temperature environments
- For the installation and protection of electrical conductors in circuits of 600 Volts nominal, or less.
- Where the conditions of installation, operation, or maintenance require flexibility or protection from liquids, vapors, solids, or weather
- 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
- Permitted for equipment grounding in sizes 3/8" through 1-1/4" in lengths not exceeding 6 feet per NEC 250.118(6)
- 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)
- 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)
- Electric signs and outline lighting supply and secondary-circuit per NEC 600.31 (1000 Volts or less) & NEC 600.32 (over 1000 Volts)
- Approved for use in lengths longer than 6 feet per NEC® 356.10(5)

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- **Hazardous location:**
- Class I, Div. 2 - NEC® 501.10(B)(2) and 501.30(B)
- Class II, Div. 1 and 2 - NEC® 502.10(A)(2) and 502.30(B) and NEC 502.10(B)(2)
- Class III, Div. 1 and 2 - NEC® 503.10(A)(2) and 503.30(B) and NEC 503.10(A)(2)

Titan2™ Type UL 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
- Rated for direct burial applications including concrete encasement

SPECIFICATIONS:

- UL 360 Liquidtight Flexible Steel Conduit
- CSA 22.2 No. 56 Flexible metal conduit and liquid-tight flexible metal conduit
- NFPA 70 (National Electrical Code), Article 350 - Liquidtight Flexible Metal Conduit

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} {SOUTHWIRE} X" {TITAN2_TM} TYPE UL, {UL} -55{D}C TO 80{D}C DRY, 60{D}C WET, 60{D}C OIL RES, DIR BUR SUNLIGHT RESISTANT --- {CSA} LIQUID-TIGHT CONDUIT 75{D}C, FT1

Titan2™ Type UL

Trade Size	Inner Diam (Min/Max)	Outer Diam (Min/Max)	Weight	Minimum Bend Radius
Inch	Inch	Inch	Lb/100ft	Inch
3/8	0.484/0.504	0.690/0.710	24	3*
1/2	0.622/0.642	0.820/0.840	30	4
3/4	0.820/0.840	1.030/1.050	38	5
1	1.041/1.066	1.290/1.315	60	8
1-1/4	1.380/1.410	1.630/1.660	80	10
1-1/2	1.575/1.600	1.865/1.900	113	12
2	2.020/2.045	2.340/2.375	149	16
2-1/2	2.480/2.505	2.840/2.875	198	20
3	3.070/3.100	3.460/3.500	265	24
3-1/2	3.500/3.540	3.960/4.000	300	28
4	4.000/4.040	4.460/4.500	310	32

*Suggestion only. Non-NEC requirement

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Put Ups Gray

TRADE SIZE (Inch)	25 ft	50 ft	100 ft	150 ft	250 ft	400 ft	500 ft	600 ft	1000 ft
3/8			55092903				55092901	55092905	
1/2			55082603				55082605		55082602
3/4			55082703				55082705		55082702
1			55093003			55093004			
1-1/4		55093305			55093303				
1-1/2		55093205		55093201					
2		55093105	55093101						
2-1/2	55106401		55106403						
3	55106504		55106503						
3-1/2	55106604		55106603						
4	55106704		55106702						

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