# 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

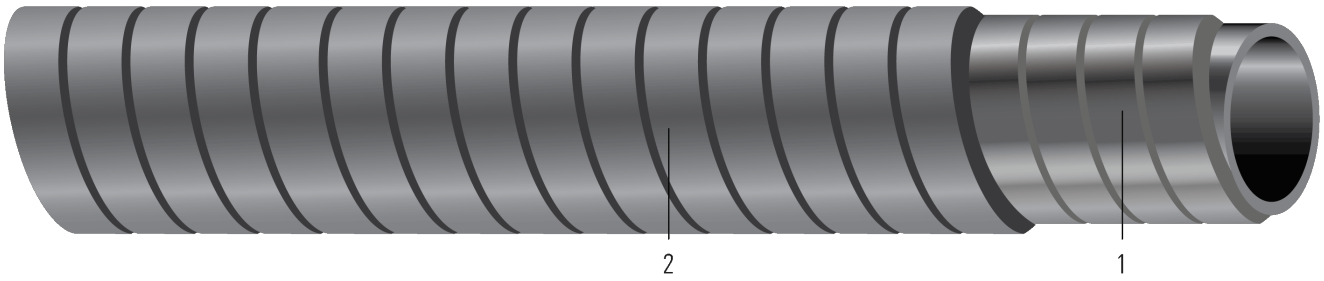



Image not to scale. See Table 1 for dimensions.

## 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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