

# Titan2™

## Type UL



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

### APPLICATIONS

**Titan2™ Type UL Liquidtight Flexible Metal Conduit is suitable of the following installations:**

- 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 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 per NEC 600.31 (1000 Volts or less) & NEC 600.32 (over 1000 Volts)
- 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)
- 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(E)(2)
- Service entrance in lengths up to six feet per NEC 230.43(15)
- Permitted for equipment grounding under the conditions detailed in NEC 250.118(6)
- 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)(3) & 503.30(B)
  - Class III, Div. 2 - NEC 503.10(B)

### STANDARDS & REFERENCES

- NFPA-70 (National Electrical Code), Article 350 - Liquidtight Flexible Metal Conduit
- 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
- REACH/RoHS-2 (Chemical Limit) Compliant



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One Southwire Drive, Carrollton, GA 30119, USA



**Southwire®**

## CONSTRUCTION

Titan2™ Type UL LFMC 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.

| TRADE SIZE<br>(INCHES)                                                               | STOCK NUMBER          |                       |                        | DIAMETER<br>(INCHES) |                    | WEIGHT<br>(LBS/100') | APPROX.<br>BEND<br>DIAMETER<br>(INCHES) |
|--------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------|----------------------|--------------------|----------------------|-----------------------------------------|
|                                                                                      |                       |                       |                        | INNER<br>(MIN/MAX)   | OUTER<br>(MIN/MAX) |                      |                                         |
| GRAY JACKET                                                                          |                       |                       |                        |                      |                    |                      |                                         |
| 3/8                                                                                  | 55-09-29-03<br>(100') | 55-09-29-01<br>(500') | 55-09-29-05<br>(600')  | .484/.504            | .69/.71            | 24                   | 4                                       |
| 1/2                                                                                  | 55-08-26-03<br>(100') | 55-08-26-05<br>(500') | 55-08-26-02<br>(1000') | .622/.642            | .82/.84            | 30                   | 6.5                                     |
| 3/4                                                                                  | 55-08-27-03<br>(100') | 55-08-27-05<br>(500') | 55-08-27-02<br>(1000') | .82/.84              | 1.03/1.05          | 38                   | 8.5                                     |
| 1                                                                                    | 55-09-30-03<br>(100') | 55-09-30-04<br>(400') |                        | 1.041/1.066          | 1.29/1.315         | 60                   | 13                                      |
| 1-1/4                                                                                | 55-09-33-05<br>(50')  | 55-09-33-01<br>(200') | 55-09-33-03<br>(250')  | 1.38/1.41            | 1.63/1.66          | 80                   | 16                                      |
| 1-1/2                                                                                | 55-09-32-05<br>(50')  | 55-09-32-01<br>(150') |                        | 1.575/1.6            | 1.865/1.90         | 113                  | 18                                      |
| 2                                                                                    | 55-09-31-05<br>(50')  | 55-09-31-01<br>(100') |                        | 2.02/2.045           | 2.34/2.375         | 149                  | 22.25                                   |
| 2-1/2                                                                                | 55-10-64-01<br>(25')  | 55-10-64-03<br>(100') |                        | 2.48/2.505           | 2.84/2.875         | 197                  | 29.25                                   |
| 3                                                                                    | 55-10-65-04<br>(25')  | 55-10-65-03<br>(100') |                        | 3.07/3.1             | 3.46/3.5           | 265                  | 35                                      |
| 3-1/2                                                                                | 55-10-66-04<br>(25')  | 55-10-66-03<br>(100') |                        | 3.5/3.54             | 3.96/4             | 300                  | 40                                      |
| 4                                                                                    | 55-10-67-04<br>(25')  | 55-10-67-02<br>(100') |                        | 4/4.04               | 4.46/4.5           | 310                  | 48                                      |
| BLACK JACKET                                                                         |                       |                       |                        |                      |                    |                      |                                         |
| 3/8                                                                                  | 55-29-08-04<br>(100') | 55-29-08-05<br>(600') |                        | .484/.504            | .69/.71            | 24                   | 4                                       |
| 1/2                                                                                  | 55-28-94-04<br>(100') | 55-28-94-21<br>(500') | 55-28-91-01<br>(1000') | .622/.642            | .82/.84            | 30                   | 6.5                                     |
| 3/4                                                                                  | 55-28-96-04<br>(100') | 55-28-96-02<br>(500') | 55-28-96-01<br>(1000') | .82/.84              | 1.03/1.05          | 38                   | 8.5                                     |
| 1                                                                                    | 55-28-98-01<br>(100') | 55-28-98-04<br>(400') |                        | 1.041/1.066          | 1.29/1.315         | 60                   | 13                                      |
| 1-1/4                                                                                | 55-29-04-02<br>(50')  | 55-29-04-21<br>(250') |                        | 1.38/1.41            | 1.63/1.66          | 80                   | 16                                      |
| 1-1/2                                                                                | 55-31-62-03<br>(50')  | 55-31-62-01<br>(150') |                        | 1.575/1.6            | 1.865/1.99         | 113                  | 18                                      |
| 2                                                                                    | 55-29-06-02<br>(50')  | 55-29-06-01<br>(100') |                        | 2.02/2.045           | 2.34/2.375         | 149                  | 22.25                                   |
| 3                                                                                    | 55-37-37-04<br>(25')  |                       |                        | 3.07/3.1             | 3.46/3.5           | 265                  | 35                                      |
| 4                                                                                    | 55-29-05-01<br>(25')  |                       |                        | 4/4.04               | 4.46/4.5           | 310                  | 48                                      |
| * 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, non-concentrated 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 -55°C to 80°C, 60°C Oil (-67°F to +176°F, 140°F Oil)
- Accepts standard metallic liquidtight fittings
- Rated for direct burial applications including concrete encasement



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