



## Titan2™ Type HC Liquidtight Flexible Metal Conduit

Hot/Cold Liquid-Tight Flexible Metal Conduit. UL/CSA Listed. Sunlight Resistant. Temperature Rated -40C to 105C

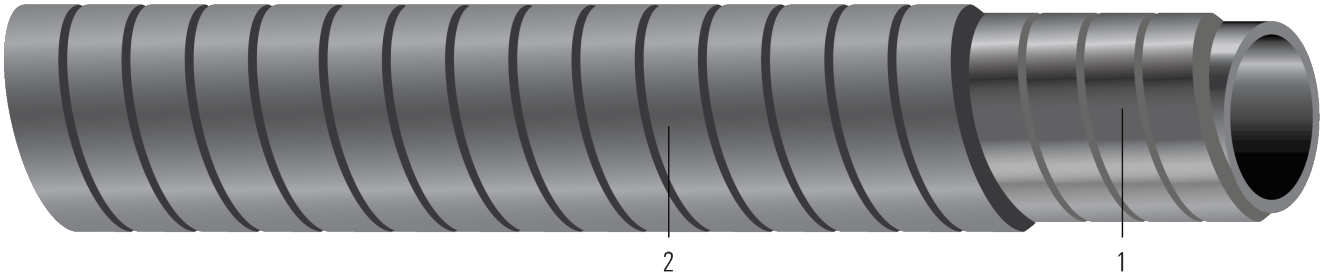


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Armor:** Titan2™ Type HC 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 HC 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)





- **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 HC 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} {TITAN2\_TM} X" TYPE HC-{UL} 105{D}C DRY 60{D}C WET 60{D}C OIL RES - DIR BUR - SUN RES - USE SEPARATE GROUNDING CONDUCTOR ON CIRCUITS RATED OVER 60A

**Titan™2 Type HC**

| 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





**Put Ups**

| TRADE SIZE (Inch) | 25 ft    | 50 ft    | 100 ft   | 150 ft   | 250 ft   | 300ft | 400 ft   | 500 ft   | 600 ft   | 1000 ft  |
|-------------------|----------|----------|----------|----------|----------|-------|----------|----------|----------|----------|
| 3/8               |          |          | 55288101 |          |          |       |          |          | 55288104 |          |
| 1/2               |          |          | 55288201 |          |          |       |          | 55288204 |          | 55288205 |
| 3/4               |          |          | 55288301 |          |          |       |          | 55288304 |          | 55288305 |
| 1                 |          |          | 55288401 |          |          |       | 55288404 |          |          |          |
| 1-1/4             |          | 55288602 |          |          | 55288604 |       |          |          |          |          |
| 1-1/2             |          | 55288702 |          | 55288704 |          |       |          |          |          |          |
| 2                 |          | 55288802 | 55288804 |          |          |       |          |          |          |          |
| 2-1/2             | 55288902 |          |          |          |          |       |          |          |          |          |
| 3                 | 55288902 |          |          |          |          |       |          |          |          |          |
| 3-1/2             | 55289002 |          |          |          |          |       |          |          |          |          |
| 4                 | 55289202 |          |          |          |          |       |          |          |          |          |

