

# Titan<sup>®</sup>2

## Type HC Liquidtight Flexible Metal Conduit



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

### APPLICATIONS

Titan<sup>®</sup>2 Type HC Liquidtight Flexible Metal Conduit 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
- Applications requiring movement, crossover connections, or tight bends
- Exposed or concealed locations
- 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)
- 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(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)
- For Hazardous Locations in accordance with the following:
  - Class I, Div. 2 - NEC 501.10(B)(2) & 501.30(B)
  - Class II, Div. 1 and 2 - NEC 502.10(A)(2) & 502.30(B) and NEC 502.10(B)(2)
  - Class III, Div. 1 and 2 - NEC 503.10(A)(2) & 503.30(B) and NEC 503.10(A)(2)

### STANDARDS & REFERENCES

Titan<sup>®</sup>2 Type HC Liquidtight Flexible Metal Conduit meets or exceeds the following requirements:

- 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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# CONSTRUCTION

Titan®2 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. A rugged, flame retardant, flexible PVC jacket is extruded over the steel core. The jacket provides protection from liquids, oil, certain chemicals, temperature, extreme weather and sunlight.

TRADE SIZE (INCHES)	STOCK NUMBER			DIAMETER (INCHES)		WEIGHT (LBS/100')	APPROX. BEND DIAMETER (INCHES)
				INNER (MIN/MAX)	OUTER (MIN/MAX)		
3/8	55-28-81-01 (100')	55-28-81-04 (600')		.484/.504	.69/.71	24	4
1/2	55-28-82-01 (100')	55-28-82-04 (500')	55-28-82-05 (1000')	.622/.642	.82/.84	30	6.5
3/4	55-28-83-01 (100')	55-28-83-04 (500')	55-28-83-05 (1000')	.82/.84	1.03/1.05	38	8.5
1	55-28-84-01 (100')	55-28-84-04 (400')		1.041/1.066	1.29/1.315	60	13
1-1/4	55-28-86-02 (50')	55-28-86-04 (250')		1.38/1.41	1.63/1.66	80	16
1-1/2	55-28-87-02 (50')	55-28-87-04 (150')		1.575/1.6	1.865/1.90	113	18
2	55-28-88-02 (50')	55-28-8804 (100')		2.02/2.045	2.34/2.375	149	22.25
2-1/2	55-28-89-02 (25')			2.48/2.505	2.84/2.875	197	29.25
3	55-28-90-02 (25')			3.07/3.1	3.46/3.5	265	35
3-1/2	55-28-91-02 (25')			3.5/3.54	3.96/4	300	40
4	55-28-92-02 (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

- The thermoplastic jacket and conduit is rated for extreme hot and cold temperature environments
- A protective thermoplastic outer jacket which seals out water, liquids, abrasives, alcohol, coolants, corrosive fumes and gases, dirt, grease, mineral acids, non-concentrated fixed alkaline, petroleum oils, salt air and spray, and weather
- Smooth metal interior for easy wiring pulling
- UV sunlight resistant jacket
- Rated for temperature range of -40°C to 105°C, 60°C Oil (-40°F to +221°F, 140°F Oil)
- Accepts standard metallic liquidtight fittings
- Rated for direct burial applications including concrete encasement

## ONLINE CERTIFICATIONS & TOOLS

- UL Online Certifications Directory ( [www.ul.com](http://www.ul.com) )
- UL Guide Information - Flexible Metal Conduit, Liquid-tight (DXHR)
- CSA Online Certifications Directory ( [www.csa.ca](http://www.csa.ca) )
- CSA Product Information - Conduit-Flexible Metal, Liquid-Tight Conduit (1812-03)

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