

# Titan2™

## Type HC Liquidtight Flexible Metal Conduit



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

### APPLICATIONS

Titan2™ Type HC Liquidtight Flexible Metal Conduit is suitable of 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
- For flexible connections to swimming pool, spa, and hot tub motors per 2011 NEC® 680.21(A)(3) & 680.42(A)(1)
- Electric signs and outline lighting supply and secondary-circuit per 2011 NEC® 600.31 (1000 Volts or less) & NEC® 600.32 (over 1000 Volts)

### STANDARDS & REFERENCES

- NEC® Type designation - Type LFMC (Liquidtight Flexible Metal Conduit)
- ANSI / NFPA-70, NEC Article 350
- 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

### CONSTRUCTION

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. 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.



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The Power of Connections.™



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

## 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

## ADDITIONAL APPLICATIONS

- 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)
- Permitted for equipment grounding in sizes 3/8" through 1-1/4" in lengths not exceeding 6 feet per NEC® 250.118(6)
- 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)

## ONLINE CERTIFICATIONS & TOOLS

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