

TITAN™ TYPE HC

HOT/COLD LIQUIDTIGHT FLEXIBLE METAL CONDUIT



**Hot/Cold Liquidtight
Flexible Metal Conduit**

UL/CSA Listed

Oil-Resistant

Sunlight-Resistant

**Temperature Rated
-40°C to +105°C**

APPLICATIONS Suitable for use as follows:

- 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 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)
- For Use in Hazardous Locations - see Additional Applications Section on following page for more details

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

CONSTRUCTION

Titan™ 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.

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, nonconcentrated fixed alkalines, petroleum oils, salt air and spray, and weather
- Smooth metal interior for easy wire 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





MC CABLE

WEIGHTS, MEASUREMENTS AND PACKAGING

TRADE SIZE (inches)	APPROX. WEIGHT (lbs/100 ft)	INNER DIAMETER MIN./MAX. (inches)	OUTER DIAMETER MIN./MAX. (inches)	MINIMUM BENDING RADIUS (inches)	STANDARD COIL LENGTH (feet)	STANDARD REEL LENGTH (feet)
3/8	27	0.484 / 0.504	0.690 / 0.710	4	100	600
1/2	31	0.622 / 0.642	0.820 / 0.840	4	100	1000
3/4	40	0.820 / 0.840	1.030 / 1.050	5	100	1000
1	76	1.041 / 1.066	1.290 / 1.315	6	100	400
1-1/4	102	1.380 / 1.410	1.630 / 1.660	8	50	250
1-1/2	103	1.575 / 1.600	1.865 / 1.900	10	50	150
2	145	2.020 / 2.045	2.340 / 2.375	12	50	100
2-1/2	197	2.480 / 2.505	2.840 / 2.875	15	25	-
3	265	3.070 / 3.100	3.460 / 3.500	18	25	-
3-1/2	300	3.500 / 3.540	3.960 / 4.000	21	25	-
4	343	4.000 / 4.040	4.460 / 4.500	24	25	-

ADDITIONAL APPLICATIONS

- In Hazardous Locations - where necessary for flexible connections within hazardous locations in accordance with the following:
 - Class 1, Div. 2 - 2005 NEC 501.10(B)(2) & 501.30(B)
 - Class 2, Div. 1 - 2005 NEC 502.10(A)(2) & 502.30(B)
 - Class 2, Div. 2 - 2005 NEC 502.10(B)(2)
 - Class 3, Div. 1 - 2005 NEC 503.10(A)(2) & 503.30(B)
 - Class 3, Div. 2 - 2005 NEC 503.10(A)(2)
- Permitted for equipment grounding in sizes 3/8" - 1 1/4" in lengths not exceeding 6 feet per 2005 NEC 250.118(6)
- Floating building feeders and services per NEC 553.7(B)
- Boatyards and Marinas in accordance with NEC 555.13
- Cranes and Hoists in accordance with NEC 610.11(C)
- For Elevator, Dumbwaiters, Escalators, Moving Walks, Wheel Chair Lifts and 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)
- UL Guide Information - Flexible Metal Conduit, Liquidtight (DXHR)
- CSA Product Information - Conduit-Flexible Metal, Liquidtight Conduit (1812-03)

FULL ENGINEERING SPECIFICATIONS AVAILABLE AT WWW.SOUTHWIRE.COM/COMMERCIALPRODUCTSPECS