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 use as a grounding conductor per 2014 NEC 250.118(6)
- For flexible connections to swimming pool, spa, and hot tub motors per 2014 NEC 680.21(A)(3) & 680.42(A)(1)
- Electric signs and outline lighting supply and secondary-circuit per 2014 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)
- UL Product Category DXHR
- 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 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.

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One Southwire Drive, Carrollton, GA 30119, USA

TRADE SIZE (INCHES)	STOCK NUMBER			DIAMETER (INCHES)		WEIGHT (LBS/100')	APPROX. BEND DIAMETER (INCHES)
				INNER (MIN/MAX)	OUTER (MIN/MAX)		
GRAY JACKET							
3/8	55-09-29-03 (100')	55-09-29-01 (500')	55-09-29-05 (600')	.484/.504	.69/.71	24	4
1/2	55-08-26-03 (100')	55-08-26-05 (500')	55-08-26-02 (1000')	.622/.642	.82/.84	30	6.5
3/4	55-08-27-03 (100')	55-08-27-05 (500')	55-08-27-02 (1000')	.82/.84	1.03/1.05	38	8.5
1	55-09-30-03 (100')	55-09-30-04 (400')		1.041/1.066	1.29/1.315	60	13
1-1/4	55-09-33-05 (50')	55-09-33-01 (200')	55-09-33-03 (250')	1.38/1.41	1.63/1.66	80	16
1-1/2	55-09-32-05 (50')	55-09-32-01 (150')		1.575/1.6	1.865/1.90	113	18
2	55-09-31-05 (50')	55-09-31-01 (100')		2.02/2.045	2.34/2.375	149	22.25
2-1/2	55-10-64-01 (25')	55-10-64-03 (100')		2.48/2.505	2.84/2.875	197	29.25
3	55-10-65-04 (25')	55-10-65-03 (100')		3.07/3.1	3.46/3.5	265	35
3-1/2	55-10-66-04 (25')	55-10-66-03 (100')		3.5/3.54	3.96/4	300	40
4	55-10-67-04 (25')	55-10-67-02 (100')		4/4.04	4.46/4.5	310	48
BLACK JACKET							
3/8	55-29-08-04 (100')	55-29-08-05 (600')		.484/.504	.69/.71	24	4
1/2	55-28-94-04 (100')	55-28-94-21 (500')	55-28-91-01 (1000')	.622/.642	.82/.84	30	6.5
3/4	55-28-96-04 (100')	55-28-96-02 (500')	55-28-96-01 (1000')	.82/.84	1.03/1.05	38	8.5
1	55-28-98-01 (100')	55-28-98-04 (400')		1.041/1.066	1.29/1.315	60	13
1-1/4	55-29-04-02 (50')	55-29-04-21 (250')		1.38/1.41	1.63/1.66	80	16
1-1/2	55-31-62-03 (50')	55-31-62-01 (150')		1.575/1.6	1.865/1.99	113	18
2	55-29-06-02 (50')	55-29-06-01 (100')		2.02/2.045	2.34/2.375	149	22.25
3	55-37-3704 (25')			3.07/3.1	3.46/3.5	265	35
4	55-29-05-01 (25')			4/4.04	4.46/4.5	310	48
* Minimum bend radius based on 2014 NEC Chapter 9, Table 2 (other bends) per Article 350.							

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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

ADDITIONAL APPLICATIONS

- 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)
- Permitted for equipment grounding under the conditions detailed in 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(E)(2)
- Service entrance in lengths up to six feet per NEC 230.43(15)

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One Southwire Drive, Carrollton, GA 30119, USA

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 29, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐ UPS ☐ Courier ☒ **Email**

Copies	No.	Description
1 PDF	261300E03	(Submittal No. 261300-003) – Raceways & Boxes

Remarks:

c: **Kelvin Patel**
Kpatel@cannondesign.com

☒ **Furnish as Submitted** ☐ Furnish as Noted

☐ Rejected ☐ Revise & Resubmit

☐ Reviewed ☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WTASHOP - Webster ISB - 26 1300-003

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 6/20/2016 5:06 PM
Subject: Webster ISB - 26 1300-003
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...
Attachments: 261300-003 Raceways and Boxes.pdf

Attached for review.

Melissa Pirtle
Construction Admin
CANNONDESIGN
1100 Clark Ave
St. Louis, Missouri 63102
T 314.425.8797 • M
cannondesign.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

261300-003
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

261300
SPECIFICATION SECTION / PARAGRAPH

Guarantee Electrical
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◉ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◯ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

6/20/16
DATE

To be completed by Reviewer

26 1300-003
CANNON DESIGN SUBMITTAL NUMBER

6/21/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0097

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/20/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Raceways and Boxes

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		261300-003	1		06/20/2016	Raceways and Boxes	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

GUARANTEE
ELECTRICAL CONSTRUCTION

3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

Transmittal

To Paric Corporation

Date 6/16/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-003

We are sending you:

- X Attached
- ___ Under separate cover, the following:
- ___ Preliminary Drawings
- ___ Samples
- ___ Construction Drawings
- ___ Copy of Letter
- ___ Specifications
- ___ Other

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Raceways & Boxes - Spec
			Section 26 13 00

These are transmitted as checked:

- X For Your Review & Comment
- X For Approval
- ___ For Your File
- ___ As Requested
- ___ Approved As Noted
- ___ Returned For Corrections
- ___ Approved As Submitted
- ___

Copy: Transmittal Enclosure

___ ___

___ ___

___ ___

Rick Branstetter

Signed: Rick Branstetter, Project Manager