

# RepublicConduit

## Electrunite® Electrical Metallic Tubing

### *Simplify Installation, Save Time, Spend Less*

Republic Conduit's Electrunite® Electrical Metallic Tubing (EMT) is the easiest electrical conduit to bend currently available in the marketplace. It is the thinnest and lightest of all of our products. Republic's EMT is manufactured from high quality, flat rolled steel and is produced using Republic Conduit's exclusive Electrogalvanizing process, which provides a protective surface coating of satin-smooth, corrosion-resistant zinc to the tube. A secondary treatment, following the zinc coating, extends the surface protection of Republic Conduit's EMT.

The finished Republic EMT is uniform in outside diameter (OD), wall thickness and ductility. Its structural strength ensures system integrity, as it doesn't sag or become brittle under extreme temperature, nor does it burn or decompose, producing harmful smoke or gases.

Large sizes of Republic's EMT offer an advantage for jobs where weight is a key factor in designing an electrical wiring system. Because of its thinner walls, large size EMT weighs approximately 40% less than Galvite® Electrical Rigid Metal Conduit-Steel (Galvite® ERMC-S). This, in turn, allows Republic Conduit's customers to save on shipping and overall installation costs. And because the walls of this product are thinner, there is approximately 22% more space on the inside of the conduit as compared to identically sized Galvite® ERMC-S.

Republic Conduit is committed to implementing effective quality management systems and processes. Our Georgia facility has maintained an ISO certification since 1995 and has been recertified in 2008. Also in 2008, the Kentucky facility has achieved its initial certification by successfully meeting the requirements for ISO 9001:2000.



### Features and Benefits

**Consistent Quality** – Republic Conduit's entire production process is solely focused on manufacturing quality products made to our customers' specifications. Our products are also manufactured to the highest criteria of the American National Standards Institute (ANSI) and Underwriters Laboratories (UL). Because of its ductility and tight tolerances, our EMT promotes wrinkle-free bends, reduces kinking and minimizes splitting from repeated bending and straightening.

**Cost-Effective Installations** – Republic's EMT is a thin wall product with more inside wiring space, which means that less product is necessary to purchase.

- Easier wire pulling and pushing – diamond-shaped ID pattern\* and protective, slick, inside coating (Silverslick®), reduce friction when pulling / pushing the wires. The Silverslick finish stays hard and smooth in various climate conditions, protecting your conduit and your investment.
- Accurate, time-efficient bending – Because 1/2", 3/4" and 1" sizes of Republic Conduit's EMT are Inch-Marked® and Guide-Lined®, the product is easier to cut and bend properly right away,\*\* further reducing waste.
- Lower life-cycle costs – steel conduit is impact and fire resistant, chemically compatible with concrete and resists cracking, flaking and damage from severe bending. Its physical and mechanical properties ensure that the pipe has an extended shelf life, great for usage and storage without degradation in quality.

\*Applies to 1/2", 3/4" and 1" EMT sizes.

\*\*When using an EMT bender.

**System Grounding and Electromagnetic Interference Shielding** – Republic Conduit’s EMT not only protects people from the harmful effects of faulty wiring, but also protects any nearby electric / electronic equipment from damage by the electromagnetic field.

**Trade sizes range from 1/2” to 4”.**

**Conduit is manufactured in the U.S.**

## Available Sizes

To easily identify the right size pipe for the job, simply look at our EMT’s color coded ends (1/2” sizes use black tape, 3/4” sizes use red and 1” sizes use blue).

Inventories of our products are maintained by leading electrical distributors throughout North America. Contact our Agent in your area today or visit [www.republicconduit.com](http://www.republicconduit.com) for more information.

## Weights and Dimensions\*

Trade Size Designator		Outside Diameter (OD)		Nominal Inside Diameter (ID)		Nominal Wall Thickness		Nominal Weight per 100 Feet		Feet per Bundle	Standard Lifts				Color Code	Method
US	Metric	IN	mm	IN	mm	IN	mm	LBS	kg		Length		Weight			
											FEET	m	LBS	kg		
1/2	16	0.706	17.93	0.622	15.80	0.042	1.07	30	13.6	100	7000	2135	2100	952.4	Black	Tape
3/4	21	0.922	23.42	0.824	21.00	0.049	1.25	46	20.9	100	5000	1525	2300	1043.1	Red	Tape
1	27	1.163	29.54	1.049	26.60	0.057	1.45	67	30.4	100	3000	915	2010	911.6	Blue	Tape
1 1/4	35	1.510	38.35	1.380	35.05	0.065	1.65	101	45.8	50	2000	610	2020	916.1	Red	Tape
1 1/2	41	1.740	44.20	1.610	40.89	0.065	1.65	116	52.6	50	1500	457.5	1740	789.1	Black	Tape
2	53	2.197	55.80	2.067	52.50	0.065	1.65	148	67.1	30	1200	366	1776	805.4	Blue	Tape
2 1/2	63	2.875	73.03	2.731	69.36	0.072	1.83	216	98.0		610	186.1	1318	597.7	Black	Tape
3	78	3.500	88.90	3.356	85.24	0.072	1.83	263	119.3		510	155.6	1341	608.2	Blue	Tape
3 1/2	91	4.000	101.6	3.834	97.38	0.083	2.11	349	158.3		370	112.9	1291	585.5	Black	Tape
4	103	4.500	114.3	4.334	110.08	0.083	2.11	393	178.2		300	91.5	1179	534.7	Blue	Tape

### Outside Diameter

For trade size through 2"	±0.005	±0.13 mm
For trade size 2 1/2"	±0.010	±0.25 mm
For trade size 3"	±0.015	±0.38 mm
For trade sizes 3 1/2" and 4"	±0.020	±0.51 mm

- The values in feet / pound units are standard. The metric equivalents may be approximate. Conduit is always identified by its English or Metric Trade Size Designator.
- 1/2", 3/4", and 1" sizes of Republic's EMT are furnished bearing the Inch-Marked® and Guide-Lined® trademarks and with diamond knurled inside finish for easier wire pull / push.

- All sizes furnished in 10' lengths.
- Applicable length tolerance = ±1/4" (±6.35mm) without a coupling.
- 2 1/2", 3", 3 1/2", and 4" OD sizes are the same as corresponding trade sizes of Galvite ERM-C-S.

## Specifications

Architects desiring to specify Republic Conduit EMT should include the following description:

Electrical conductors shall be enclosed in Electrinite EMT in accordance with the National Electrical Code (NEC). Electrical metallic tubing shall be mild steel, electrically-welded, galvanized and produced to the following specifications:

- ANSI – American National Standard for Steel Electrical Metallic Tubing, (EMT) ANSI, C80.3
- National Electric Code, 2002 Article 358 (1999 NEC, Article 348)
- UL Standard for Electrical Metallic tubing – Steel, UL797, File # E7465
- Federal Specification WW-C-563

The above Federal Specification WW-C-563 may still be referenced; however, the federal government has canceled it and has adopted the Underwriters Laboratories 797 and American National Standards Institute C80.3 standards.

\*All orders are subject to Republic Conduit's Terms and Conditions, a copy of which is available upon request.

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