

# Electrical Metallic Tubing (EMT)

UL 797 - ANSI C80.3

ELECMAN® Electrical Metallic Tubing (EMT) is a steel raceway of circular cross-section designed for the physical protection and routing of conductors and cables for use as an equipment grounding conductor.

## Material:

Carbon steel

## Surface Finish:

### Hot-dip galvanized:

Involves dipping the steel conduit in molten zinc, which creates a thick, durable coating. This is the most common method for EMT.

### Zinc coating:

1. Magnetic test in accordance with ASTM B 499.
2. Copper sulfate test (Preece Test) in accordance with ASTM A 239. Material will withstand four 1-minute immersions.
3. The zinc coating thickness is about 40µm.

## Certification & Standard

### Certification:

Manufactured to Underwriters Laboratory Safety Standards UL 797  
UL File No.: E491791



### Standard:

Manufactured in accordance with ANSI C80.3

## Welding:

The welding of all seams is continuous and done in a workmanlike manner.

## Chamfer:

Both ends of the EMT are chamfered to remove burrs and sharp edges.

## Bending properties :

1. At ambient temperature, the tubing is capable of being bent, with a bending tool designed for the purpose, to 90 degrees.
2. the seam in either compression or tension. The tubing doesn't develop cracks in the metal or show any visible signs of splits or injurious defects in the weld area.

## Dimensions:

The dimensions and weights of EMT are in accordance with the following table.



Table - Dimensions and Weights for Electrical Metallic Tubing

Catalog Number	Trade Size		Inside Diameter <sup>1</sup>		Outside Diameter		Wall Thickness		Length		Minimum Weight per 10 Unit Lengths
	in.	mm	in.	mm	in.	mm	in.	mm	ft	mm	kg
EMT050	1/2"	16	0.622	15.80	0.706	17.93	0.042	1.07	10	3050	12.93
EMT075	3/4"	21	0.824	20.93	0.922	23.42	0.049	1.25	10	3050	19.73
EMT100	1"	27	1.049	26.64	1.163	29.54	0.057	1.45	10	3050	29.03
EMT125	1-1/4"	35	1.380	35.05	1.510	38.35	0.065	1.65	10	3050	43.09
EMT150	1-1/2"	41	1.610	40.90	1.740	44.20	0.065	1.65	10	3050	49.90
EMT200	2"	53	2.067	52.50	2.197	55.80	0.065	1.65	10	3050	63.50
EMT250	2-1/2"	63	2.731	69.37	2.875	73.03	0.072	1.83	10	3050	92.99
EMT300	3"	78	3.356	85.24	3.500	88.90	0.072	1.83	10	3050	113.40
EMT350	3-1/2"	91	3.834	97.38	4.000	101.60	0.083	2.11	10	3050	147.42
EMT400	4"	103	4.334	110.08	4.500	114.30	0.083	2.11	10	3050	167.83

### Applicable Tolerance:

Length: 10ft±1/4in. 3050mm ±6.35mm.  
 Outside Diameter: 1/2" to 2" ±0.005in.(16mm to 53mm ±0.13mm).  
 2-1/2" ±0.010in. (63mm ±0.25mm).  
 3" ±0.015in. (78 ±0.38mm).  
 3-1/2" to 4" ±0.020in. (91mm to 103mm ±0.51mm)

<sup>1</sup>Dimensions are for information only