

Electrical Metallic Tubing

ANSI C80.3 UL797

MECH Conduit's Galvanized Steel Electrical Metallic Tubing (EMT) is excellent electrical conduit. MECH Conduit is manufactured with high-strength steel, and produced by the electric resistance welding process.

EMT is produced in normal trade sizes from ½" to 4". EMT is produced in standard lengths of 10' (3.05 m). Bundles of finished EMT are identified with color coded tape for easy size identification.



CONSISTENT QUALITY

LOWER LIFE-
CYCLE COSTS



EXCELLENT ID
SMOOTHNESS

Specifications

- American National Standard for Rigid Steel EMT (ANSI® C80.3)
- Underwriters Laboratories Standard for EMT-Steel (UL797)
- National Electric Code® 2002 Article 358 (1999 NEC® Article 348)



Dimensions and Weights for Steel Electrical Metallic Tubing

Inch-Pound Units					
Trade Size	Inside Diameter* (in.)	Outside Diameter (in.)	Wall Thickness* (in.)	Length (feet)	Minimum Weight per 10 unit Lengths (lbs)
1/2	0.622	0.706	0.042	10	28.5
3/4	0.824	0.922	0.049	10	43.5
1	1.049	1.163	0.057	10	64
1-1/4	1.380	1.510	0.065	10	95
1-1/2	1.610	1.740	0.065	10	110
2	2.067	2.197	0.065	10	140
2-1/2	2.731	2.875	0.072	10	205
3	3.356	3.500	0.072	10	250
3-1/2	3.834	4.000	0.083	10	325
4	4.334	4.500	0.083	10	370
Metric Units					
Metric Designator	Inside Diameter* (mm)	Outside Diameter (mm)	Wall Thickness* (mm)	Length (mm)	Minimum Weight per 10 Unit Lengths (kg)
16	15.80	17.93	1.067	3050	12.93
21	20.93	23.42	1.245	3050	19.73
27	26.64	29.54	1.448	3050	29.03
35	35.05	38.35	1.651	3050	43.09
41	40.90	44.20	1.651	3050	49.90
53	52.50	55.80	1.651	3050	63.50
63	69.37	73.03	1.829	3050	92.99
78	85.24	88.90	1.829	3050	113.40
91	97.38	101.60	2.108	3050	147.42
103	110.08	114.30	2.108	3050	167.83

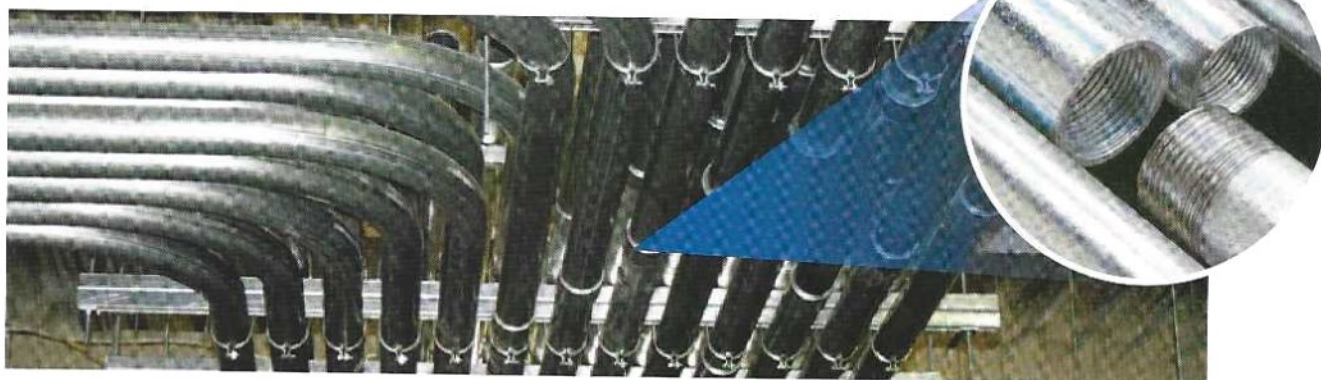
Applicable Tolerances

Length 10Ft (3.05m) $\pm 1/4"$ ($\pm 6.35\text{mm}$).

Outside Diameter $1/2"$ - $2"$ $\pm 0.005"$ ($\pm 0.13\text{mm}$); $2 1/2"$ $\pm 0.010"$ ($\pm 0.25\text{mm}$); $3"$ $\pm 0.015"$ ($\pm 0.38\text{mm}$); $3 1/2"$ - $4"$ $\pm 0.020"$ ($\pm 0.51\text{mm}$)

Electrical Rigid Steel Conduit

ANSI C80.1 UL 6



MECH Conduit's Hot Dip Galvanized Electrical Rigid Conduit (UL6) has excellent protection, strength, safety and ductility for your wiring works. MECH Conduit Rigid conduit is manufactured with high-strength steel, and produced by the electric resistance welding process. MECH Conduit Rigid conduits are zinc coated both inside and outside using hot dip galvanizing process, so that metal-to-metal contact and galvanic protection against corrosion are provided.

MECH Conduit Rigid conduit is produced in normal trade sizes from 1/2" to 6" in standard lengths of 10 feet (3.05 m), including the coupling and color coded Plastic thread protector caps for quick identification of the conduit size. The rigid conduit is threaded on both ends, with a coupling applied to one end and a by size color coded thread protector to the other.

CONSISTENT QUALITY

**Features
&
Benefits**

LOWER LIFE-
CYCLE COSTS

EXCELLENT ID
SMOOTHNESS

Specifications

- American National Standard for Rigid Steel Tubing (ANSI® C80.1)
- Underwriters Laboratories Standard for Rigid Steel Tubing (UL6)
- National Electric Code® 2002 Article 344 (1999 NEC Article 346)



Dimensions of Threads for Rigid Steel Conduit

Inch-Pound Units					Metric Units				
Trade Size	Threads Per in.	Pitch diameter at end of thread E_o , taper $\frac{3}{4}$ in. per ft. ^b	Length of Thread (in.)		Metric Designator	Threads Per 25.4	Minimum Straight Length L_s at Each End (mm)	Length of Thread (mm)	
			Effective L_2	Overall L_4^a				Effective L_2	Overall
1/2	14	0.758	0.53	0.78	16	14	19.3	13.5	19.8
3/4	14	0.968	0.55	0.79	21	14	24.6	14.0	20.1
1	11-1/2	1.214	0.68	0.98	27	11-1/2	30.8	17.3	24.9
1-1/4	11-1/2	1.557	0.71	1.01	35	11-1/2	39.5	18.0	25.7
1-1/2	11-1/2	1.796	0.72	1.03	41	11-1/2	45.6	18.3	26.2
2	11-1/2	2.269	0.76	1.06	53	11-1/2	57.6	19.3	26.9
2-1/2	8	2.720	1.14	1.57	63	8	69.1	29.0	39.9
3	8	3.341	1.20	1.63	78	8	84.9	30.5	41.4
3-1/2	8	3.838	1.25	1.68	91	8	97.5	31.8	42.7
4	8	4.334	1.30	1.73	103	8	110.1	33.0	43.9
5	8	5.391	1.41	1.84	129	8	136.9	35.8	46.7
6	8	6.446	1.51	1.95	155	8	163.7	38.4	49.5

Applicable Tolerances

Thread length (L_4) +1 thread, recommended practice +0, -1

Pitch diameter +1 turn is the maximum variation permitted from the gauging face of the working thread gauges

Dimensions and Weights for Rigid Steel Conduit

Inch-Pound Units					
Trade Size	Nominal Inside Diameter (in.) ³	Outside Diameter (in.)	Nominal Wall Thickness (in.)	Length Without Coupling ¹ (ft. and in.)	Minimum Weight of Ten Unit Lengths with Couplings Attached (lb.) ²
1/2	0.632	0.840	0.104	9'11-1/4"	79.0
3/4	0.836	1.050	0.107	9'11-1/4"	105.0
1	1.063	1.315	0.126	9'11"	153.0
1-1/4	1.394	1.660	0.133	9'11"	201.0
1-1/2	1.624	1.900	0.138	9'11"	249.0
2	2.083	2.375	0.146	9'11"	332.0
2-1/2	2.489	2.875	0.193	9'10-1/2"	527.0
3	3.090	3.500	0.205	9'10-1/2"	682.6
3-1/2	3.570	4.000	0.215	9'10-1/4"	831.0
4	4.050	4.500	0.225	9'10-1/4"	972.3
5	5.073	5.563	0.245	9'10"	1313.6
6	6.093	6.625	0.266	9'10"	1745.3
Metric Units					
Metric Designator	Nominal Inside Diameter (mm) ³	Outside Diameter (mm)	Nominal Wall Thickness (mm)	Length Without Coupling (mm) ¹	Minimum Weight of Ten Unit Lengths with Couplings Attached (kg) ²
16	16.1	21.3	2.6	3030	35.83
21	21.2	26.7	2.7	3030	47.63
27	27.0	33.4	3.2	3025	69.40
35	35.4	42.2	3.4	3025	91.17
41	41.2	48.3	3.5	3025	112.95
53	52.9	60.3	3.7	3025	150.60
63	63.2	73.0	4.9	3010	239.05
78	78.5	88.9	5.2	3010	309.63
91	90.7	101.6	5.5	3005	376.94
103	102.9	114.3	5.7	3005	441.04
129	128.9	141.3	6.2	2995	595.85
155	154.8	168.3	6.8	2995	791.67

NOTES

1. Straight Conduit
2. Finished Conduit
3. Inside dimensions are not a requirement. However, conduit meeting the required weight and Outside Diameter will nominally have the referenced dimensions.

Applicable Tolerances

Length + 1/4 in. (6.35 mm) without coupling

Outside Diameter for trade sizes 1/2 (16) through 1 1/2 (41): +0.015 in (+0.38 mm)
for trade sizes 2 (53) through 6 (155): +/- 1%