

Weights and Dimensions for Electrical Metallic Tubing

Trade Size Designator		Approx Weight per 100 ft (30.5M)		Nominal Outside Diameter		Nominal Inside Diameter		Quantity in Primary Bundle		Master Bundle					
										Quantity		Approx. Weight		Volume	
U.S.	Metric	lb.	kg.	in.	mm	in.	mm	ft.	m	ft.	m	lb.	kg.	cu. ft.	cu. m
1/2	16	10.3	4.7	0.706	17.9	0.622	15.80	200	61	7000	2135.0	721	327.7	28.7	0.81
3/4	21	15.8	7.2	0.922	23.4	0.824	21.00	200	61	5000	1525.0	790	359.1	35.6	1.01
1	27	23.3	10.6	1.163	29.5	1.049	26.60	200	61	3000	915.0	699	317.7	33.7	0.95
1-1/4	35	34.7	15.8	1.510	38.4	1.380	35.05	50	15.2	2000	610.0	694	315.5	35.0	0.99
1-1/2	41	40.2	18.3	1.740	44.2	1.610	40.89	50	15.2	1500	457.5	603	274.1	34.2	0.97
2	53	51.2	23.3	2.197	55.8	2.067	52.50	-	-	1200	366.0	614	279.3	46.7	1.32
2-1/2	63	74.6	33.9	2.875	73.0	2.731	69.36	-	-	610	186.1	455	206.8	41.5	1.18
3	78	91.1	41.4	3.500	88.9	3.356	85.24	-	-	510	155.6	465	211.2	48.9	1.38
3-1/2	91	120.1	54.6	4.000	101.6	3.834	97.38	-	-	370	112.9	444	202.0	48.6	1.38
4	103	135.5	61.6	4.500	114.3	4.334	110.08	-	-	300	91.5	407	184.8	48.3	1.37

Outside diameter tolerances: $\pm .005$ in. (.13mm) for trade sizes $\frac{1}{2}$ ", $\pm .010$ in. for trade size $2\frac{1}{2}$ ", $\pm .015$ in. for trade size 3", $\pm .020$ for trade size $3\frac{1}{2}$ " and length = 10 ft. with a tolerance of ± 0.25

Recommended Installation Practices

Cutting: Cut the EMT square using a hacksaw or band saw. Do not use roll-type, tubing cutters. Take special care not to flare the ends when reaming the inside of EMT.

Bending: Conventional EMT bending equipment (hand, ratchet, power) may be used for Aluminum EMT.

Fittings: Zinc Die-cast fittings are recommended, but standard EMT fittings are satisfactory for most installations.

Fishing and Wire Pulling: Polyethylene fish tapes and polypropylene rope are recommended. Use of flat steel tapes should be avoided.




Soil or Concrete Installation: Underwriters' Laboratories Electrical Construction Equipment Directory (UL Green Book) states that aluminum conduit used in concrete or in contact with soil requires supplemental corrosion protection. Examples are paints and tape wraps approved for the purpose.

Specification Data

Alloy: 6005 Aluminum Alloy, 98.5% purity aluminum

Specification Compliance: Underwriters' Laboratories UL 797, ANSI C80 3

Bundle Tape Color Code

-  RED = $\frac{1}{4}$ sizes
-  BLACK = $\frac{1}{2}$ sizes
-  BLUE = 1 sizes