

ALLIED'S EMT

QUALITY, EASY-TO-INSTALL ELECTRICAL METALLIC TUBING

MANUFACTURED FOR LONG LIFE

Allied EMT is precision manufactured from high grade mild strip steel for exceptional durability and long-lasting life.

Allied EMT is hot galvanized using Allied's patented in-line Flo-Coat® process. This process combines zinc, chromate, and a clear organic polymer top-coat to form a triple layer of protection against corrosion and abrasion.

Allied EMT provides radiation protection and magnetic shielding, while its uniform wall thickness provides resistance to physical damage from impact or crushing.

INSTALLS QUICKLY AND EASILY

Allied EMT's quality steel combines damage resistant strength with ductility to provide easy bending, cutting and joining to prevent waste of time and material. It resists flattening, kinking or splitting, resulting in faster and easier installations.

Allied EMT provides smooth continuous raceways for fast wire-pulling. The interior wall of Allied EMT is protected with a specially

formulated corrosion resistant lubricating coating for easier fishing and wire-pulling. No need to worry about damage to the conduit system even when pulling through multiple 90° bends.

FULL CODES AND STANDARDS COMPLIANCE

Allied EMT is U.L. listed and recognized by the National Electrical Code. It meets the Underwriters Laboratories' Standard for EMT, U.L. 797. Allied EMT is also manufactured to meet the requirements of ANSI C80.3. Federal Specifications now use U.L. 797 and ANSI C80.3 in lieu of WWC 563. Recognized as an equipment grounding conductor (NEC Article 250-91b).

Installation of EMT shall be in accordance with the National Electrical Code and U.L. General Information Card #FJMX.

Master bundles conform to NEMA Standard RN2.

SPECIFICATION DATA

To specify Allied EMT, include the

following: Electrical Metallic Tubing shall be equal to that manufactured by Allied Tube & Conduit Corporation. EMT shall be hot galvanized steel O.D. with an organic corrosion resistant I.D. coating and shall be produced in accordance with U.L. Safety Standard #797 and ANSI C80.3 and shall be listed by a nationally recognized testing laboratory with follow-up service. Where **Kwik-Fit EMT** is used it shall also meet U.L. Safety Standard #514-B. It is noted that these U.L. and ANSI standards have been adopted by the federal government and separate military specifications no longer exist.

KWIK-FIT EMT- A NEW INNOVATION FROM THE CONDUIT LEADER

Allied's Kwik-Fit EMT has an integral steel set-screw coupling formed on one end of each length of EMT. Specifying U.L. listed Kwik-Fit EMT ensures an all steel system—both conduit and coupling—for excellent strength and ground return, as well as economy. Contact Allied for detailed specifications on Kwik-Fit EMT. Available in trade sizes 2-1/2-4.

Weights and Dimensions for Electrical Metallic Tubing

Trade Size Designator		Approx. Wt. Per 100 Ft. (30.5M)		Nominal Outside Diameter ¹		Nominal Wall Thickness		Quantity In Primary Bundle		Master Bundles					
										Quantity		Approx. Wt.		Volume	
U.S.	Metric	lb.	kg	in.	mm	in.	mm	ft.	m	ft.	mm	lb.	kg	cu ft.	cu m
1/2	16	30	13.6	0.706	17.9	0.042	1.07	100	30.5	7000	2135.0	2100	952.4	28.7	0.81
3/4	21	46	20.9	0.922	23.4	0.049	1.25	100	30.5	5000	1525.0	2300	1043.1	35.6	1.01
1	27	67	30.4	1.163	29.5	0.057	1.45	100	30.5	3000	915.0	2010	911.6	33.7	0.95
1-1/4	35	101	45.8	1.510	38.4	0.065	1.65	50	15.2	2000	610.0	2020	916.1	35.0	0.99
1-1/2	41	116	52.6	1.740	44.2	0.065	1.65	50	15.2	1500	457.5	1740	789.1	34.2	0.97
2	53	148	67.1	2.197	55.8	0.065	1.65	—	—	1200	366.0	1776	805.4	46.7	1.32
2-1/2	63	216	98.0	2.875	73.0	0.072	1.83	—	—	610	186.1	1318	597.7	41.5	1.18
3	78	263	119.3	3.500	88.9	0.072	1.83	—	—	510	155.6	1341	608.2	48.9	1.38
3-1/2	91	349	158.3	4.000	101.6	0.083	2.11	—	—	370	112.9	1291	585.5	48.6	1.38
4	103	393	178.2	4.500	114.3	0.083	2.11	—	—	300	91.5	1179	534.7	48.3	1.37

¹Outside diameter tolerances: +/- .005 in. (.13mm) for trade sizes 1/2" (16mm) through 2" (53mm); +/- .010 in. (.25mm) for trade sizes 2-1/2 (63mm) +/- .015 in. (.38mm) for trade size 3" (78mm) +/- .020 in. (.51mm) for trade sizes 3-1/2 (91mm) and 4" (103mm).

NOTE: Length = 10 ft. (3.05m) with a tolerance of ± .25" (6.35 mm).



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ALLIED'S IMC

QUALITY, LONG-LASTING INTERMEDIATE METAL CONDUIT

QUALITY ENGINEERED FOR FULL ELECTRICAL SYSTEM PROTECTION

Allied IMC is precision manufactured for economical protection and long-lasting value for the electrical raceway system. Allied IMC is lighter in weight but as strong as RIGID, and is recognized for use in every application, without exception, including all hazardous locations. Allied IMC is manufactured from premium, work-hardened steel combining electrical and mechanical performance with ductility. Allied IMC is resistant to impact and is easy to cut, bend and join for smooth, continuous raceways and fast wire-pulling. Allied IMC also provides radiation protection and magnetic shielding.

Allied IMC is hot galvanized using Allied's patented in-line Flo-Coat® process. This process combines zinc, chromate, and a clear organic polymer top-coat to form a triple layer of protection against corrosion and abrasion.

The interior of Allied IMC is coated with a highly corrosion-resistant lubricating finish for easier wire-pulling. No need to worry about damage to the conduit system even when pulling through multiple 90° bends. Both interior and exterior coatings meet U.L. 1242 and ANSI C80.6.

THE ALLIED IMC ADVANTAGE

Allied IMC has a larger internal

diameter than RIGID conduit to allow for easier fishing and wire-pulling. Allied IMC is also more "rigid" than RIGID to provide superior wiring protection in many applications. The National Electrical Code recognizes Allied IMC for the same uses as RIGID, including all hazardous (classified) applications.

Allied IMC uses the same threaded fittings as RIGID conduit, and the 3/4" NPT threads (ANSI B1.20.1) are also full cut and galvanized after cutting.

Color-coded end-cap thread protectors keep the threads clean and sharp, and also provide instant trade size recognition. Even-inch sizes are color-coded orange, 1/2-inch sizes are yellow, and 1/4-inch sizes are green.

FULL CODES AND STANDARDS COMPLIANCE

Allied IMC is U.L. listed and is recognized by the National Electrical Code. It meets Underwriters Laboratories' Standards for IMC, U.L. 1242. Allied IMC is also manufactured to meet the requirements of ANSI C80.6 and Federal Specifications. Federal Specifications now use U.L. 1242 in lieu of WWC 581. Recognized as an equipment grounding conductor (NEC Article 250-91b).

Installation of Intermediate Metal Conduit shall be in accordance with the National Electrical Code and U.L. General Information card #DYBY.

Master bundles conform to NEMA standard RN2-1987.

SPECIFICATION DATA

Intermediate Metal Conduit shall be equal to that manufactured by Allied Tube & Conduit Corporation. IMC shall be hot galvanized steel O.D. with an organic corrosion resistant I.D. coating and shall be produced in accordance with U.L. Safety Standard #1242 and ANSI C80.6 and shall be listed by a nationally recognized testing laboratory with follow-up service. Threads shall be hot galvanized after cutting. Where **Kwik-Couple IMC** is used it shall also meet U.L. Safety Standard #514-B. It is noted that these U.L. standards have been adopted by the federal government and separate military specifications no longer exist.

KWIK-COUPLE IMC-A NEW INNOVATION FROM THE CONDUIT LEADER

Allied's patented* Kwik-Couple IMC has a factory-installed Kwik-Couple coupling threaded onto one end of each conduit length or elbow. The Kwik-Couple performs like a 3-piece coupling, threading securely onto both lengths of conduit at each connection by wrench-tightening the coupling instead of turning the conduit.

Specifying U.L. listed Kwik-Couple IMC insures IMC conduit reliability and performance, as well as economy. Kwik-Couple IMC is available in 2 1/2"-4" sizes.

*U.S. Patent Numbers 4258936,4547004.

WEIGHTS AND DIMENSIONS FOR INTERMEDIATE METAL CONDUIT

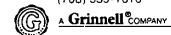
Trade Size, Inches	Approx. Wt. per 100 ft. (30.5m)		Nominal Outside Dia. ¹		Minimum Wall Thickness ²		Length of Finished Conduit ³		Quantity In Primary Bundle		Quantity In Master Bundle		Approx. Wt. of Master Bundle		Volume of Master Bundle	
	lb.	kg	in.	mm	in.	mm	ft.	m	ft.	m	ft.	m	lb.	kg	cu ft.	cu m
1/2	60	27.22	0.815	20.7	0.070	1.8	9'11 1/4"	3.03	100	30.48	3500	1067	2233	1013	26.7	0.76
3/4	82	37.29	1.029	26.1	0.075	1.9	9'11 1/4"	3.03	50	15.24	2500	762	2078	943	30.7	0.87
1	116	52.62	1.290	32.8	0.085	2.2	9'11"	3.02	50	15.24	1700	518	2035	923	30.7	0.87
1 1/4	150	68.04	1.638	41.6	0.085	2.2	9'11"	3.02	—	—	1350	411	2209	1002	36.3	1.03
1 1/2	182	82.55	1.883	47.8	0.090	2.3	9'11"	3.02	—	—	1100	335	2122	963	38.2	1.08
2	242	109.77	2.360	59.9	0.095	2.4	9'11"	3.02	—	—	800	244	2096	951	45.8	1.30
2 1/2	428	194.14	2.857	72.6	0.140	3.5	9'10 1/2"	3.01	—	—	370	113	1652	749	29.2	0.83
3	526	238.59	3.476	88.3	0.140	3.5	9'10 1/2"	3.01	—	—	300	91	1618	734	31.3	0.89
3 1/2	612	277.60	3.971	100.9	0.140	3.5	9'10 1/4"	3.00	—	—	240	73	1576	715	34.7	0.98
4	682	309.35	4.466	113.4	0.140	3.5	9'10 1/4"	3.00	—	—	240	73	1809	821	42.8	1.21

¹Outside diameter tolerances: +/- .005 in. (.13mm) for trade sizes 1/2" through 1". +/- .0075 in. (.19mm) for trade size 1 1/4". through 2 in. +/- .010 in. (.25mm) for trade size 2 1/2" through 4 in.

²Wall thickness tolerances: + .015 in. (.38mm) and - .000 for trade sizes 1/2" through 2 in. + 0.20 in. (.51 mm) and - .000 for trade sizes 2 1/2" through 4 in. Without Coupling Length Tolerances: +/- .25 in (6.35mm).



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ALLIED'S RIGID

QUALITY, LONG-LASTING RIGID STEEL CONDUIT

PROVIDES FULL ELECTRICAL SYSTEM PROTECTION

Allied RIGID conduit is precision manufactured for dependable, long-lasting value and protection for the electrical raceway system.

Manufactured from high-strength strip steel, Allied RIGID combines damage resistant strength with ductility to assure easy bending, cutting and joining. It also provides smooth, continuous raceways for fast wire-pulling. No need to worry about damage to the conduit system even when pulling through multiple 90° bends.

Allied RIGID is hot-dipped zinc galvanized. Then, it is chromated to form an additional protection layer against corrosion and abrasion.

Allied RIGID provides radiation protection and magnetic shielding and resists impact.

The ¾" NPT threads (ANSI B1.20.1) are full cut and hot galvanized after cutting. Color-coded end-cap thread protectors keep the threads clean and sharp and also provide instant trade size recognition. Even-inch sizes are

color-coded blue, ½-inch sizes are black, and ¼" sizes are red.

FULL CODES AND STANDARDS COMPLIANCE

Allied's RIGID is U.L. listed and is recognized by the National Electrical Code. It meets Underwriters Laboratories' Standards for RIGID, U.L. 6. Allied's RIGID is also manufactured to meet the requirements of ANSI C80.1 and Federal Specifications. Federal Specifications now use U.L. 6 in lieu of WWC 581. Recognized as an equipment grounding conductor (NEC Article 250-91b).

Installation of Rigid Metal Conduit shall be in accordance with the National Electrical Code and U.L. General Information Card #DYIX.

Master bundles conform to NEMA standard RN2-1987.

SPECIFICATION DATA

Rigid Metal Conduit shall be hot-dip galvanized steel equal to that manufactured by Allied Tube & Conduit Corporation. Threads shall be hot galvanized after cutting. GRC shall be produced in accordance with

U.L. Safety Standard #6 and ANSI C80.1 and shall be listed by a nationally recognized testing laboratory with follow-up service. Where **Kwik-Couple** GRC is used it shall also meet U.L. Safety Standard #514-B. It is noted that these U.L. standards have been adopted by the federal government and separate military specifications no longer exist.

KWIK-COUPLE RIGID-A NEW INNOVATION FROM THE CONDUIT LEADER

Allied's patented* Kwik-Couple RIGID has a factory-installed Kwik-Couple coupling threaded onto one end of each conduit length or elbow. The Kwik-Couple performs like a 3-piece coupling, threading securely onto both lengths of conduit at each connection by wrench-tightening the coupling instead of turning the conduit.

Specify U.L. listed Kwik-Couple RIGID ensures RIGID conduit reliability and performance, as well as economy. Contact Allied for detailed specifications on Kwik-Couple Rigid. Available in 2½"-4" sizes.

* U.S. Patent Numbers 4258936, 4547004.

WEIGHTS AND DIMENSIONS FOR GALVANIZED RIGID CONDUIT

Trade Size, Inches	Approx. Wt. per 100 ft. (30.5m)		Nominal Outside Dia. ¹		Nominal Wall Thickness ²		Length of Finished Conduit ³		Quantity In Primary Bundle		Quantity In Master Bundle		Approx. Wt. of Master Bundle		Volume of Master Bundle	
	lb.	kg	in.	mm	in.	mm	ft.	m	ft.	m	ft.	m	lb.	kg	cu ft.	cu m
½	80	36.29	0.840	21.3	0.104	2.6	9'11¼"	3.03	100	30.48	2500	762	2000	907	20.8	0.59
¾	109	49.44	1.050	26.7	0.107	2.7	9'11¼"	3.03	50	15.24	2000	610	2180	989	24.3	0.69
1	165	74.84	1.315	33.4	0.126	3.2	9'11"	3.02	50	15.24	1250	381	2063	936	21.7	0.61
1¼	215	97.52	1.660	42.2	0.133	3.4	9'11"	3.02	30	9.14	900	274	1935	878	23.3	0.66
1½	258	117.03	1.900	48.3	0.138	3.5	9'11"	3.02	—	—	800	244	2064	936	27.8	0.79
2	352	159.67	2.375	60.3	0.146	3.7	9'11"	3.02	—	—	600	183	2112	958	33.8	0.96
2½	567	257.19	2.875	73.0	0.193	4.9	9'10½"	3.01	—	—	370	113	2098	952	29.2	0.83
3	714	323.87	3.500	88.9	0.205	5.2	9'10½"	3.01	—	—	300	91	2142	972	31.3	0.89
3½	860	390.10	4.000	101.6	0.215	5.5	9'10¼"	3.00	—	—	250	76	2150	975	34.7	0.98
4	1000	453.60	4.500	114.3	0.225	5.7	9'10¼"	3.00	—	—	200	61	2000	907	33.7	0.95
5	1320	598.75	5.563	141.3	0.245	6.2	9'10"	3.00	—	—	150	46	1980	898	41.3	1.17
6	1785	809.68	6.625	168.3	0.266	6.8	9'10"	3.00	—	—	100	30	1785	810	38.9	1.10

¹Outside diameter tolerances: +/- .015 in. (.38mm) for trade sizes ½ in. through 2 in. +/- .025 in. (.64mm) for trade sizes 2½ in. through 4 in. +/- 1% for trade sizes 5 in. and 6 in.


²For more information only; not a spec requirement.

³Without Coupling Length Tolerances: +/- .25 in (6.35mm).

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