

Intermediate Metal Conduit (IMC) and Kwik-Couple® IMC



A PART OF **atkore**
TECHNICAL

NEC recognizes Allied IMC for same uses as RIGID

IMC Conduit

- Light-weight ductile steel conduit for long life and easy bending
- Weighs 1/3 less than rigid conduit
- Saves up to 30% in cost over GRC
- Hot galvanized exterior to increase corrosion resistance and protect against white rust
- Interior coating creates a smooth, continuous raceway for fast wire-pulling
- UL 1242 listed and manufactured in accordance with ANSI C80.6
- True Color IMC special orders available
- Available in trade sizes 1/2(16) thru 4(103)

Kwik-Release End Cap No Tools Needed!



Kwik-Couple® IMC Steel Conduit

- Factory-installed Kwik-Couple couplings are available on IMC rigid conduits
- No separate couplings to purchase, store, carry or install
Just line up the ends, spin the coupling forward onto the next piece and wrench tighten. It's that easy!
- Kwik-Release End Cap · Requires no tools
- Similar Benefits to IMC Conduit*
- True Color IMC special orders available
- Patented
- Trade Sizes 2-1/2(63) thru 4(103)



* Kwik-Couple IMC does not contain wet location listings and is not approved for Haz-Loc Class I Div 1 locations



IMC (Intermediate Metal Conduit) Weights and Dimensions

Trade Size	Metric Designator	Average Outside Diameter ¹		Average Wall Thickness ²		Approximate Weight Per 100 Ft. (30.5M)		Quantity in Master Bundle	
		in.	mm.	in.	mm.	lb.	kg.	ft.	m.
1/2	16	0.815	20.70	0.070	1.79	62	28.1	3500	1067.5
3/4	21	1.029	26.13	0.075	1.90	84	38.1	2500	762.5
1	27	1.290	32.76	0.085	2.16	119	54.0	1700	518.5
1-1/4	35	1.638	41.60	0.085	2.16	158	71.7	1350	411.8
1-1/2	41	1.883	47.82	0.090	2.29	194	88.0	1100	335.5
2	53	2.360	59.94	0.095	2.41	256	116.1	800	244.0
2-1/2	63	2.857	72.56	0.140	3.56	441	200.0	370	112.9
3	78	3.476	88.29	0.140	3.56	543	246.3	300	91.5
3-1/2	91	3.971	100.86	0.140	3.56	629	285.3	240	73.2
4	103	4.466	113.43	0.140	3.56	700	317.5	240	73.2

¹Outside diameter tolerances:

- +/- .005 in. (.13mm) for trade sizes 1/2 (16mm) through 1 (25mm)
- +/- .0075 in. (.19mm) for trade sizes 1-1/4 (36mm) through 2 (53mm)
- +/- 0.10 in. (.25mm) for trade sizes 2-1/2 (63mm) through 4 (103mm).

²Wall thickness tolerances:

- + 0.15 in. (.38mm) and - .000 for trade sizes 1/2 (13mm) through 2 (53mm)
- + 0.20 in. (.51mm) and - .000 for trade sizes 2-1/2 (63mm) through 4 (103mm).

NOTE: Length = 10 ft. (3.05m) with a tolerance of +/- .25 in. (6.35mm).
NEMA Standard

Project Information

Company Name: _____
 Address: _____
 City: _____
 State & Zip: _____
 Phone: _____
 Project Name: _____
 City: _____
 State: _____

Intermediate Metal Conduit (IMC) and Kwik-Couple® IMC



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INTERNATIONAL

FEATURES & SPECIFICATIONS

Allied IMC is precision manufactured for economical protection and long lasting value for the electrical raceway system. 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. Allied IMC is as strong, lighter in weight, and less expensive than Rigid. In fact, it can save you as much as 30% in overall costs. Intermediate Metal Conduit, covered by Article 342 in the National Electrical Code® (NEC®), is recognized as an equipment grounding conductor in Article 250 of the NEC and also provides excellent shielding from electromagnetic fields.

Kwik-Couple IMC Conduit

Innovation from the conduit leaders at Allied

Allied's patented Kwik-Couple IMC reduces threaded conduit installation time and cost significantly. Kwik-Couple has an integrated coupling on the conduit exactly where you need it.

The Allied 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 standard Allied IMC for the same uses as RIGID, including all hazardous location (classified) applications.

Allied IMC uses the same threaded couplings and 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 help to provide instant trade size recognition. Even sizes are color-coded orange, 1/2 trade sizes are yellow, and 1/4 trade sizes are green.

Coatings

Allied's IMC is hot galvanized using Allied's patented inline Flo-Coat® process. This process combines zinc, a conversion coating, and a clear organic polymer topcoat 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.

EMI Shielding

Allied IMC is very effective in reducing the effects of electromagnetic fields on encased power distribution circuits, shielding computers and other sensitive electronic equipment from the effects of electromagnetic interference.

Visit www.alliedeg.com to obtain the **GEMI** (Grounding and Electromagnetic Interference) software analysis program.

Codes & Standards Compliance

Standard IMC is covered by Article 342 of the National Electric Code (NEC). It can be installed in all occupancies and locations, including Class I, Division I hazardous locations. Allied IMC is listed to Underwriters Laboratories Safety Standard UL 1242 and meets ANSI C80.6. These standards have been adopted as Federal Specifications in lieu of WWC-581-Type 2. IMC is recognized as an equipment grounding conductor by NEC Section 250-118.

Kwik-Couple IMC is Listed to UL Safety Standard 1242 and UL 514-B. Kwik-Couple IMC is Listed for CONCRETE-TIGHT applications.

Installation of IMC conduit and elbows shall be in accordance with the National Electrical Code and the UL listing information. Allied IMC is listed in UL category DYBY. Master bundles conform to NEMA standard RN2.

Specification Data

To specify, IMC and Kwik-Couple IMC include the following: Intermediate Metal Conduit (IMC) conduit and elbows 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 Listed to UL Safety Standard 1242 and manufactured in accordance with ANSI C80.6. It shall be listed by a nationally recognized testing laboratory with follow-up service. Threads shall be hot galvanized after cutting.

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 Conduit Weights and Dimensions

Trade Size	Metric Designator	Average Outside Diameter ¹		Average Wall Thickness ²		Approximate Weight Per 100 Ft. (30.5M)		Quantity In Master Bundle	
		in.	mm.	in.	mm.	lb.	kg.	ft.	m.
2-1/2	63	2.857	72.56	0.140	3.56	441	200.0	400	122.0
3	78	3.476	88.29	0.140	3.56	543	246.3	300	91.5
3-1/2	91	3.971	100.86	0.140	3.56	629	285.3	250	76.3
4	103	4.466	113.4	0.140	3.56	700	317.5	200	61.0

¹Outside diameter tolerances: +/- .010 in. (.25mm)

²Wall thickness tolerances: + .020 in. (.51mm) and -.000

NOTE: Length (w/coupling) = 10 ft. (3.05m) with a tolerance of +/- .25in. (6.35mm).

NOTE: Special orders are non-cancelable, non-returnable and non-refundable