



## EMT Electrical Metallic Tubing

- Interior coated with "Easy Pull" protective lubricant for easy wire pulling.
- Uniform wall thickness provides resistance to physical damage.
- Galvanized coating seals out corrosion.
- Ductile steel cuts and bends easily to reduce waste and installation time.
- Available from 1/2" to 4"
- UL Listed; ANSI C80.3

Catalog No. / Katalog-Nr.	Description / Beschreibung	Weight/m	VPE/Pack	U/M	EDP-No.	Master Bundles	
<b>EMT - Electrical Metallic Tubing</b>							
EMT 1/2"	Metric: 16; Nominal: Outside <sup>1</sup> ø 17.9mm, Wall Thickness 1.07mm	454g	30/3	m	112610	2100 m	953.4 kg 0.81m <sup>3</sup>
EMT 3/4"	Metric: 21; Nominal: Outside <sup>1</sup> ø 23.4mm, Wall Thickness 1.25mm	696g	30/3	m	113019	1500 m	1044.0 kg 1.01m <sup>3</sup>
EMT 1"	Metric: 27; Nominal: Outside <sup>1</sup> ø 29.5mm, Wall Thickness 1.45mm	1014g	30/3	m	113020	900 m	912.6 kg 0.95m <sup>3</sup>
EMT 1 1/4"	Metric: 35; Nominal: Outside <sup>1</sup> ø 38.4mm, Wall Thickness 1.65mm	1528g	15/3	m	117696	600 m	916.8 kg 0.99m <sup>3</sup>
EMT 1 1/2"	Metric: 41; Nominal: Outside <sup>1</sup> ø 44.2mm, Wall Thickness 1.65mm	1755g	15/3	m	117697	450 m	789.8 kg 0.97m <sup>3</sup>
EMT 2"	Metric: 53; Nominal: Outside <sup>1</sup> ø 55.8mm, Wall Thickness 1.65mm	2240g	3	m	117698	360 m	806.4 kg 1.32m <sup>3</sup>
EMT 2 1/2"	Metric: 63; Nominal: Outside <sup>1</sup> ø 73.0mm, Wall Thickness 1.83mm	3269g	3	m	117699	183 m	598.3 kg 1.18m <sup>3</sup>
EMT 3"	Metric: 78; Nominal: Outside <sup>1</sup> ø 88.9mm, Wall Thickness 1.83mm	3980g	3	m	117700	153 m	609.0 kg 1.38m <sup>3</sup>
EMT 3 1/2"	Metric: 91; Nominal: Outside <sup>1</sup> ø 101.6mm, Wall Thickness 2.11mm	5282g	3	m		111 m	586.3 kg 1.38m <sup>3</sup>
EMT 4"	Metric: 103; Nominal: Outside <sup>1</sup> ø 114.3mm, Wall Thickness 2.11mm	5947g	3	m	117701	90 m	535.3 kg 1.37m <sup>3</sup>

<sup>1</sup>Outside diameter tolerances:

+/- 0.005 in. (0.13mm) for trade sizes 1/2" (16mm) through 2" (53mm);

+/- 0.010 in. (0.25mm) for trade sizes 2 1/2" (63mm);

+/- 0.015 in. (0.38mm) for trade size 3" (78mm)

+/- 0.020 in. (0.51mm) for trade sizes 3-1/2" (91mm) and 4" (103mm).

NOTE: Shipping Length = 10 ft. (3.05m) with a tolerance of +/- 0.25" (6.35 mm).

### MANUFACTURED FOR LONG LIFE

The EMT is precision manufactured from high grade mild strip steel for exceptional durability and long-lasting life. EMT is hot galvanized using 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. 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

The 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. EMT provides smooth continuous raceways for fast wire-pulling. The interior wall of the 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

The EMT is U.L. listed and recognized by the National Electrical Code. It meets the Underwriters Laboratories' Standard for EMT, U.L. 797. The 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 this EMT, include the following: Electri-

cal Metallic Tubing shall be equal to that manufactured by the 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

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. Available in trade sizes 2" to 4".

To learn more about B-I-A please visit us at our  
WEB site: [www.BiaGmbH.com](http://www.BiaGmbH.com)





## IMC Intermediate Metal Conduit

- Larger internal diameter than rigid conduit for easier wire pulling.
- Uniform wall thickness provides resistance to physical damage.
- Galvanized coating seals out corrosion.
- Available from 1/2" to 4"
- UL Listed; ANSI C80.6

Catalog No. / Katalog-Nr.	Description / Beschreibung	Weight/m*	VPE/Pack	U/M	EDP-No.	Master Bundles	
<b>IMC - Intermediate Metal Conduit</b>							
IMC 1/2"	Metric: 16; Nominal: Outside <sup>1</sup> ∅ 20.7mm, Wall Thickness <sup>2</sup> 1.80mm	938g	30/3	m	113134	1050 m	984.9 kg 0.76m <sup>3</sup>
IMC 3/4"	Metric: 21; Nominal: Outside <sup>1</sup> ∅ 26.1mm, Wall Thickness <sup>2</sup> 1.90mm	1271g	15/3	m	113135	750 m	953.3 kg 0.87m <sup>3</sup>
IMC 1"	Metric: 27; Nominal: Outside <sup>1</sup> ∅ 32.8mm, Wall Thickness <sup>2</sup> 2.20mm	1801g	15/3	m	113136	510 m	918.6 kg 0.87m <sup>3</sup>
IMC 1 1/4"	Metric: 35; Nominal: Outside <sup>1</sup> ∅ 41.6mm, Wall Thickness <sup>2</sup> 2.20mm	2391g	3	m	117702	405 m	968.4 kg 1.03m <sup>3</sup>
IMC 1 1/2"	Metric: 41; Nominal: Outside <sup>1</sup> ∅ 47.8mm, Wall Thickness <sup>2</sup> 2.30mm	2936g	3	m	117703	330 m	968.9 kg 1.08m <sup>3</sup>
IMC 2"	Metric: 53; Nominal: Outside <sup>1</sup> ∅ 59.9mm, Wall Thickness <sup>2</sup> 2.40mm	3874g	3	m	113137	240 m	929.8 kg 1.30m <sup>3</sup>
IMC 2 1/2"	Metric: 63; Nominal: Outside <sup>1</sup> ∅ 72.6mm, Wall Thickness <sup>2</sup> 3.50mm	6674g	3	m	117704	111 m	740.9 kg 0.83m <sup>3</sup>
IMC 3"	Metric: 78; Nominal: Outside <sup>1</sup> ∅ 88.3mm, Wall Thickness <sup>2</sup> 3.50mm	8217g	3	m	117705	90 m	591.7 kg 0.89m <sup>3</sup>
IMC 3 1/2"	Metric: 91; Nominal: Outside <sup>1</sup> ∅ 100.9mm, Wall Thickness <sup>2</sup> 3.50mm	9519g	3	m		72 m	685.4 kg 0.98m <sup>3</sup>
IMC 4"	Metric: 103; Nominal: Outside <sup>1</sup> ∅ 113.4mm, Wall Thickness <sup>2</sup> 3.50mm	10593g	3	m	117706	72 m	762.7 kg 1.21m <sup>3</sup>

<sup>1</sup>Outside diameter tolerances:  
 +/- 0.005 in. (0.13mm) for trade sizes 1/2" (16mm) through 1" (25mm);  
 +/- 0.075 in. (0.19mm) for trade size 1 1/4" (36mm) through 2" (53mm);  
 +/- 0.100 in. (0.25mm) for trade size 2 1/2" (63mm) through 4" (103mm).

<sup>2</sup>Wall thickness tolerances:  
 + 0.015 in. (0.38mm) and - 0.0 for trade sizes 1/2" (16mm) through 2" (53mm);  
 + 0.02 in. (0.51mm) and - 0.0 for trade sizes 2 1/2" (63mm) through 4" (103mm).

\*NEMA Standard

NOTE: Shipping Length = 10 ft. (3.05m) with a tolerance of +/- 0.25" (6.35 mm).

### QUALITY ENGINEERED FOR FULL ELECTRICAL SYSTEM PROTECTION

The IMC is precision manufactured for economical protection and long-lasting value for the electrical raceway system. The IMC is lighter in weight but as strong as RIGID, and is recognized for use in the same applications, including all hazardous locations. The IMC is manufactured from premium, work hardened steel combining electrical and mechanical performance with ductility. The IMC is resistant to impact and is easy to cut, bend and join for smooth, continuous raceways and fast wire-pulling. The IMC is hot galvanized using patented in-line Flo-Coat® process. This process combines zinc, a conversion coating, and a clear organic polymer top-coat to form a triple layer of protection against corrosion and abrasion. The interior of the 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.

### THE IMC ADVANTAGE

The IMC has a larger internal diameter than RIGID conduit to allow for easier fishing and wire-pulling. The IMC is also more „rigid“ than RIGID to provide superior wiring protection in many applications. The National Electrical Code recognizes the IMC for the same uses as RIGID, including all hazardous (classified) applications. The 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, trade size 1/2 is yellow, and trade size 1/4 is green.

### EMI SHIELDING

IMC has been proven to be an effective shield against electromagnetic interference. For further information, ask for "Modeling and Evaluation of Conduit Systems for Harmonics and Electromagnetic Fields."

### FULL CODES AND STANDARDS COMPLIANCE

The IMC is listed to Underwriters Laboratories Safety Standard UL 1242 and meets ANSI C80.6. The Federal specification is UL 1242 in lieu of WWC-581-Type 2. IMC is recognized as an equipment grounding conductor by NEC Section 250-118. Documentation for compliance with Section 250-2 (previously 250-51) of the 1999 NEC is available on request. Installation of IMC shall be in accordance with the National Electrical Code and the UL listing information. The IMC is listed in category DYBY. Master bundles conform to NEMA standard RN2.

### SPECIFICATION DATA

Intermediate Metal Conduit shall be equal to that manufactured by the 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

The 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 ensures the same IMC conduit reliability and performance, as well as economy. Kwik-Couple IMC is available in trade sizes 2 1/2" to 4".

\*U.S. Patent Numbers 4258936,4547004.



## GRC Galvanized Rigid Conduit

- Hot-dipped zinc galvanized.
- Chromated for additional corrosion and abrasion protection.
- Provides radiation and magnetic shielding.
- Color-coded end caps.
- Available from 1/2" to 6"
- UL Listed; ANSI C80.1

Catalog No. / Katalog-Nr.	Description / Beschreibung	Weight/m*	VPE/Pack	U/M	EDP-No.	Master Bundles	
<b>GRC - Galvanized Rigid Conduit</b>							
GRC 1/2"	Metric: 16; Nominal: Outside <sup>1</sup> ø 21.3mm, Wall Thickness <sup>1</sup> 2.60mm	1241g	30/3	m	<b>117690</b>	750 m	930.8 kg 0.59m <sup>3</sup>
GRC 3/4"	Metric: 21; Nominal: Outside <sup>1</sup> ø 26.7mm, Wall Thickness <sup>1</sup> 2.70mm	1650g	15/3	m	<b>117691</b>	600 m	990.0 kg 0.69m <sup>3</sup>
GRC 1"	Metric: 27; Nominal: Outside <sup>1</sup> ø 33.4mm, Wall Thickness <sup>1</sup> 3.20mm	2436g	15/3	m	<b>117692</b>	375 m	913.5 kg 0.61m <sup>3</sup>
GRC 1 1/4"	Metric: 35; Nominal: Outside <sup>1</sup> ø 42.2mm, Wall Thickness <sup>1</sup> 3.40mm	3299g	3	m		270 m	890.8 kg 0.66m <sup>3</sup>
GRC 1 1/2"	Metric: 41; Nominal: Outside <sup>1</sup> ø 48.3mm, Wall Thickness <sup>1</sup> 3.50mm	3980g	3	m		240 m	955.2 kg 0.79m <sup>3</sup>
GRC 2"	Metric: 53; Nominal: Outside <sup>1</sup> ø 60.3mm, Wall Thickness <sup>1</sup> 3.70mm	5297g	3	m	<b>117693</b>	180 m	953.5 kg 0.96m <sup>3</sup>
GRC 2 1/2"	Metric: 63; Nominal: Outside <sup>1</sup> ø 73.0mm, Wall Thickness <sup>1</sup> 4.90mm	8460g	3	m		111 m	939.1 kg 0.83m <sup>3</sup>
GRC 3"	Metric: 78; Nominal: Outside <sup>1</sup> ø 88.9mm, Wall Thickness <sup>1</sup> 5.20mm	11002g	3	m	<b>117694</b>	90 m	990.2 kg 0.89m <sup>3</sup>
GRC 3 1/2"	Metric: 91; Nominal: Outside <sup>1</sup> ø 101.6mm, Wall Thickness <sup>1</sup> 5.50mm	13317g	3	m		75 m	998.8 kg 0.98m <sup>3</sup>
GRC 4"	Metric: 103; Nominal: Outside <sup>1</sup> ø 114.3mm, Wall Thickness <sup>1</sup> 5.70mm	15587g	3	m	<b>117695</b>	60 m	935.3 kg 0.95m <sup>3</sup>
GRC 5"	Metric: 129; Nominal: Outside <sup>1</sup> ø 141.3mm, Wall Thickness <sup>1</sup> 6.20mm	21187g	3	m		45 m	953.5 kg 1.17m <sup>3</sup>
GRC 6"	Metric: 155; Nominal: Outside <sup>1</sup> ø 168.3mm, Wall Thickness <sup>1</sup> 6.80mm	27845g	3	m		30 m	835.4 kg 1.10m <sup>3</sup>

<sup>1</sup>For more information only; not a spec requirement.

\*NEMA Standard

NOTE: Shipping Length = 10 ft. (3.05m) with a tolerance of +/- 0.25" (6.35 mm).

### PROVIDES FULL ELECTRICAL SYSTEM PROTECTION

The RIGID conduit is precision manufactured for dependable, long-lasting value and protection for the electrical raceway system. Manufactured from high-strength steel, the RIGID conduit 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. The RIGID conduit is hot-dipped galvanized inside and out. It is top-coated with a compatible organic layer to inhibit white rust and increase corrosion resistance. The RIGID conduit is impact and crush resistant for maximum conductor protection. The 3/4" taper 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, 1/2-inch sizes are black, and 1/4-inch sizes are red. The RIGID conduit is proven to reduce electromagnetic fields emanating from within the conduit and to shield signals from electromagnetic interference. For further information, ask for "Modeling and Evaluation of Conduit Systems for Harmonics and Electromagnetic Fields."

### FULL CODES AND STANDARDS COMPLIANCE

The RIGID conduit is U.L. listed and is recognized by the National Electrical Code. It meets Underwriters Laboratories Safety Standard U.L. 6. and is manufactured to ANSI C80.1, both of which have been adopted as Federal Specifications in lieu of WWC 581. The RIGID conduit is recognized as an equipment grounding conductor by NEC Article 250. Documentation for compliance with Article 250-2 of the 1999 NEC (previously 250-51) is available on request. 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.

### SPECIFICATION DATA

RIGID Metal Conduit shall be hot-dip galvanized steel equal to that manufactured by the Tube & Conduit Corporation. Threads shall be hot galvanized after cutting. RIGID 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 RIGID 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

The 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. Specifying U.L. listed Kwik-Couple RIGID ensures RIGID conduit reliability and performance, as well as economy. Available in 2 1/2" to 4" sizes.

\*U.S. Patent Numbers 4258936,4547004.