

## USA - Galvanized Intermediate Metal Conduit (IMC), Steel

### General

Steel Intermediate Metal Conduit is manufactured from a mild steel tube. It has an accurate circular cross section, a uniform wall thickness, a defect free interior surface, and a continuous welded seam. To protect from corrosion the exterior surface is thoroughly and evenly coated with metallic zinc applied directly to the surface of the steel so that metal-to-metal contact and galvanic protection against corrosion are provided. The interior surface is protected by an organic corrosionresistant coating to which an additional lubricating coating is applied to reduce friction during wire insertion. IMC and its associated tubular fittings are produced in nominal trade sizes from 1/2 to 4. IMC produced in standard lengths of 10 feet (3.05m), including coupling, is threaded on both ends, with a coupling applied to one end. A by size color-coded thread protector is applied to the other end, to aid in trade size identification. Yellow thread protectors represent trade sizes 1/2, 1-1/2, 2-1/2, 3-1/2, Green 3/4 and 1-1/4 trade sizes, and Orange full trade sizes 1, 2, 3, and 4. The finished threads, National Pipe Taper (NPT), conforms to the American National Standard for Pipe Threads, General Purpose (Inch), ANSI/ASME B1.20.1. The taper of threads is 3/4 inch per foot (1 in 16). Threads are treated with a protective coating to prevent corrosion before installation. Each length of conduit has a label affixed which contains the UL Listing and a bar code. Each length is identified with the Manufacturer's name, Logo, the product name "Inter-



mediate Metal Conduit or IMC", a U.L. listing number and the words, "Consult manufacturer for installation instructions".

### Applications

Galvanized Intermediate Metal Conduit, National Electrical Code® (NEC®) 2005 Article 342, can be installed indoors or outdoors, in dry or wet locations, exposed or concealed, in all kinds of atmospheric conditions, and in hazardous locations when in accordance with NEC® 501.4, 502.4, 503.3, and 504.20. Also, it provides excellent mechanical protection for the conductors while reducing Electro-Magnetic Field (EMF) exposure and shielding against Electro-Magnetic Interference (EMI). Galvanized Intermediate Metal Conduit is an approved equipment grounding conductor, 2005 NEC® Article 250.118(3). The NEC® establishes the minimum requirements for a safe electrical installation. Because of the varied environments in which electrical equipment is installed, local amendments are often added. Always consult local codes prior to any installation.

### Specifications

Galvanized Intermediate Metal Conduit is manufactured in accordance with the latest edition of the following: American National Standards Institute - American National Standard for Electrical Intermediate Metal Conduit (EIMC), ANSI® C80.6; Underwriters Laboratories Standard for Electrical Intermediate Metal Conduit - Steel, UL 1242; National Electrical Code® 2005 - Article 342 (1999 NEC® Article 345); Federal Specification - WW-C-581. The above Federal specification may still be referenced, however the federal government has canceled it and adopted the UL 1242 standard and will no longer maintain a separate standard. Intermediate Metal Conduit was covered under WWC-581, Class 2, Type A. Additional information on the titles and designations of standards or requirements that have been used for the investigation of products in a specific category can be found in the Underwriters Laboratories Inc.®, General Information for Electrical Equipment Directory. The UL product category for Intermediate Ferrous Metal Conduit is DYBY.

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### WEIGHTS AND DIMENSIONS

Trade Size	Metric Designator	Threads Per Inch	Acceptable Length of Finished Conduit without Coupling			Weight 10 Unit Lengths with Couplings		Nominal (1) Outside Diameter		Nominal (2) Inside Diameter		Nominal (1) Wall Thickness	
			ft.	(+/- 1/4 in.) in.	(+/- 6 mm) mm	lb	kg	in.	mm	in.	mm	in.	mm
1/2	16	14	9	11 1/4	3030	62	28.12	0.815	20.70	0.660	16.76	.078	1.97
3/4	21	14	9	11 1/4	3030	84	38.10	1.029	26.26	0.869	22.07	.083	2.10
1	27	11 1/2	9	11	3025	119	53.98	1.290	32.77	1.105	28.07	.093	2.35
1 1/4	35	11 1/2	9	11	3025	158	71.67	1.638	41.59	1.448	36.77	.095	2.41
1 1/2	41	11 1/2	9	11	3025	194	88.00	1.883	47.82	1.683	42.74	.100	2.54
2	53	11 1/2	9	11	3025	256	116.12	2.360	59.93	2.150	54.60	.105	2.67
2 1/2	63	8	9	10 1/2	3010	441	200.04	2.857	72.57	2.557	64.95	.150	3.81
3	78	8	9	10 1/2	3010	543	246.30	3.476	88.29	3.176	80.67	.150	3.81
3 1/2	91	8	9	10 1/4	3005	629	285.31	3.971	100.86	3.671	93.24	.150	3.81
4	103	8	9	10 1/4	3005	700	317.52	4.466	113.44	4.166	105.82	.150	3.81

NOTES: (1) Figures are the average of the maximum and minimum dimensions as given in UL 1242.  
 (2) Calculated from nominal outside diameter and nominal wall thickness.

Steel Intermediate Metal Conduit is manufactured to the lengths shown above, so when a straight-tapped coupling is attached a 10 foot (3.05m) length is produced.

### PACKAGING

Trade Size	Metric Designator	Thread Protectors Color	Quantity Per Bundle		Quantity Per Lift				Weight Per Lift		Volume Per Lift	
			Feet	Meters	Pieces	Bundles	Feet	Meters	Pounds	Kilograms	Cu. Ft.	Cu. m
1/2	16	Yellow	100	30.5	---	35	3500	1067	2170	984.3	26.4	0.7
3/4	21	Green	50	15.2	---	50	2500	762	2100	952.6	33.5	0.9
1	27	Orange	50	15.2	---	34	1700	518	2023	917.6	32.1	0.9
1 1/4	35	Green	---	---	135	---	1350	411	2133	967.5	34.7	1.0
1 1/2	41	Yellow	---	---	110	---	1100	335	2134	968.0	35.0	1.0
2	53	Orange	---	---	80	---	800	244	2048	929.0	50.6	1.4
2 1/2	63	Yellow	---	---	37	---	370	113	1632	740.1	33.5	0.9
3	78	Orange	---	---	30	---	300	91	1629	738.9	38.3	1.1
3 1/2	91	Yellow	---	---	24	---	240	73	1510	684.8	41.7	1.2
4	103	Orange	---	---	24	---	240	73	1680	762.0	48.6	1.4

The quantity per Lift conforms to the National Electrical Manufacturers Association Standards Publication RN-2 Packaging of Master Bundles for Steel Rigid Conduit, Intermediate Metal Conduit (IMC), and Electrical Metallic Tubing.