

USA - Galvanized Rigid Metal Conduit (GRC/RMC), Steel

General

Rigid Steel Conduit is manufactured from mild steel tube. It has an accurate circular cross section, a uniform wall thickness, a defect free interior surface, and a continuous welded seam. The interior and exterior surfaces are thoroughly and evenly coated with zinc using the hot-dip galvanizing process, so that metal-to-metal contact and galvanic protection against corrosion are provided. A clear coating of zinc chromate is also applied. Additional lubricating coating may be applied to the interior surface to reduce friction during wire insertion. RMC and its associated tubular fittings are produced in nominal trade sizes from 1/2 to 6. RMC produced in standard lengths of 10 feet (3.05m), including coupling, is threaded on both ends, with a coupling applied to one end and a by size color-coded thread protector to the other. Black thread protectors identify trade sizes 1/2, 1-1/2, 2-1/2, 3-1/2. Red thread protectors identify trade sizes 3/4 and 1-1/4. Blue thread protectors identify trade sizes 1, 2, 3, 4, 5, and 6. The pitch of threads 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 protected after cutting by an application of molten zinc. Each length of conduit has a label affixed that contains the UL Listing and a bar code. Each length is identified with the Manufacturer's name, Logo, the words "Rigid Steel Conduit", a U.L. listing number and the words, "Consult manufacturer for installation instructions".



Applications

Galvanized Rigid Steel Conduit 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 National Electrical Code® (NEC®) 2005 Article 344. Also, it provides excellent mechanical protection for the conductors while reducing Electro-Magnetic Field (EMF) exposure and shielding against Electro-Magnetic Interference (EMI). Trade Sizes 2 through 6 are UL Listed for use with directional boring equipment. Galvanized Rigid Metal Conduit is an approved equipment grounding conductor, 2005 NEC® Article 250.118(2). 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 Rigid Conduit is manufactured in accordance with the latest edition of the following: American National Standards Institute - American National Standard for Electrical Rigid Steel Conduit (ERSC), ANSI® C80.1; Underwriters Laboratories Standard for Electrical Rigid Metal Conduit - Steel, UL 6; National Electric Code® 2005 - Article 344 (1999 NEC® Article 346); Federal Specification - WW-C-581. The above Federal specification may still be referenced, however the federal government has canceled it and adopted the UL 6 standard and will no longer maintain a separate standard. Rigid Metal Conduit was covered under WW-C-581, Class 1, 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 Rigid Ferrous Metal Conduit is DYIX.

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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 Outside Diameter*		Nominal Inside Diameter*		Nominal 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	82	37.20	0.840	21.34	0.632	16.05	.104	2.64
3/4	21	14	9	11 1/4	3030	109	49.44	1.050	26.67	0.836	21.23	.107	2.72
1	27	11 1/2	9	11	3025	161	37.03	1.315	33.40	1.063	27.00	.126	3.20
1 1/4	35	11 1/2	9	11	3025	218	98.88	1.660	42.16	1.394	35.41	.133	3.38
1 1/2	41	11 1/2	9	11	3025	263	119.30	1.900	48.26	1.624	41.25	.138	3.51
2	53	11 1/2	9	11	3025	350	158.76	2.375	60.33	2.083	52.91	.146	3.71
2 1/2	63	8	9	10 1/2	3010	559	253.56	2.875	73.03	2.489	63.22	.193	4.90
3	78	8	9	10 1/2	3010	727	329.77	3.500	88.90	3.090	78.49	.205	5.21
3 1/2	91	8	9	10 1/4	3005	880	399.17	4.000	101.60	3.570	90.68	.215	5.46
4	103	8	9	10 1/4	3005	1030	467.21	4.500	114.30	4.050	102.87	.225	5.72
5	129	8	9	10	2995	1400	635.04	5.563	141.30	5.073	128.85	.245	6.22
6	155	8	9	10	2995	1840	834.62	6.625	168.28	6.093	154.76	.266	6.76

*For information only, not a UL 6 requirement.

Rigid Steel Conduit is manufactured to the lengths shown above, so when a straight-tapped coupling is attached a 10 foot (3.05m) length is produced. Trade sizes 3 through 6 are UL Listed for use with directional boring equipment.

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	Black	100	30.5	---	25	2,500	762	2050	929.9	19.4	0.6
3/4	21	Red	50	15.2	---	40	2,000	610	2180	988.8	26.7	0.8
1	27	Blue	50	15.2	---	25	1,250	381	2013	912.9	22.2	0.6
1 1/4	35	Red	---	---	90	---	900	274	1962	890.0	28.3	0.8
1 1/2	41	Black	---	---	80	---	800	244	2104	954.4	27.2	0.8
2	53	Blue	---	---	60	---	600	183	2100	952.6	36.1	1.0
2 1/2	63	Black	---	---	37	---	370	113	2068	938.2	35.0	1.0
3	78	Blue	---	---	30	---	300	91	2181	989.3	41.5	1.2
3 1/2	91	Black	---	---	25	---	250	76	2200	997.9	43.3	1.2
4	103	Blue	---	---	20	---	200	61	2060	934.4	48.6	1.4
5	129	Blue	---	---	15	---	150	46	2100	952.6	52.1	1.5
6	155	Blue	---	---	10	---	100	30	1840	834.6	43.8	1.2

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.