

PRODUCT INTRODUCTION

Rigid Steel Conduit (RSC) is covered by Article 344 of NEC and a threaded raceway of circular cross section designed for the physical protection and routing of conductors and cables and for use as an equipment grounding conductor when installed with its integral or associated coupling and appropriate fittings.

RSC galvanized steel conduit has the thickest-wall of the steel raceways. It is available with either an integral or straight-tapped coupling. Electroline®'s Hot Dip Galvanized Electrical Rigid Steel Conduit (UL6) has got excellent protection, strength, safety and ductility for electrical wiring.

Electroline® RSC conduit is manufactured from high-strength steel, and welded by electric resistance welding process.

Electroline® Rigid Steel Conduit (RSC) is zinc coated both inside and outside with hot dip galvanizing in such a way that metal-to-metal contact and galvanic protection against corrosion are provided.

The exterior surface of Electroline® Rigid Steel Conduit (RSC) adopts a clear post-galvanizing coating to provide further protection against corrosion. The interior surface provides a smooth continuous raceway for easy wire pulling. The ductility characteristics of our conduits help for easy bending, cutting, and threading in the field.

Electroline® Rigid Conduit (RSC) is produced in normal trade sizes from ½" to 6" in standard lengths of 10 feet (3.05 m). The rigid conduit is threaded on both ends, with a coupling applied to one end and a color coded by size thread protector to the other end.



FEATURES AND BENEFITS OF ELECTROLINE® RSC

Consistent Quality:

- Long life; durable, strong, and suitable for the harshest environmental conditions.
- The steel is seam welded to ensure quality standards are met strictly.
- The inside surface of our conduit is seamless and extra smooth, making wire pulling and pushing easy and reducing friction between wall and wire.

Excellent Inside Diameter Smoothness:

- All flashes and zinc dross are cleared and smoothed during manufacturing after galvanizing to provide excellent smoothness and more wire capacity preventing the wired from being stripped when pulling and pushing.

Lower Life-cycle Costs:

- Electroline® Rigid Steel Conduit (RSC) has excellent ductility that resists flaking, cracking, peeling, impact, and damage from severe bending.
- Its physical and mechanical properties ensure that the conduit has an extended life cycle. Protection from Environmental Damage and Mechanical Abuse
- The thorough inside and outside zinc coating of Electroline® through hot dip galvanizing process provides enhanced, second to none corrosion protection.

RIGID STEEL CONDUIT (RSC)

SPECIFICATIONS



Electroline® Rigid pipe is manufactured in accordance with the latest edition of the following:

- American National Standards Institute (ANSI®)
- American National Standard for Rigid Steel Tubing (ANSI® C80.1)
- Underwriters Laboratories Standard for Rigid Steel Tubing (UL6)
- National Electric Code® 2002 Article 344 (1999 NEC Article 346)

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.



DIMENSION AND WEIGHT CHART (RIGID)

Catalog Number	Trade Size		Nominal Wt. per 100ft (30.5M)		Nominal Outside Diameter		Nominal Wall Thickness	
	U.S.	Metric	Lbs	Kg	In.	mm	In.	mm
E-RSC 050	½"	16	82	37.2	0.840	21.3	0.104	2.60
E-RSC 075	¾"	21	109	49.4	1.050	26.7	0.107	2.70
E-RSC 100	1"	27	161	73.0	1.315	33.4	0.126	3.20
E-RSC 125	1-¼"	35	218	98.9	1.660	42.2	0.133	3.40
E-RSC 150	1-½"	41	263	119	1.900	48.3	0.138	3.50
E-RSC 200	2"	53	350	159	2.375	60.3	0.146	3.70
E-RSC 250	2-½"	63	559	254	2.875	73.0	0.193	4.90
E-RSC 300	3"	78	727	330	3.500	88.9	0.205	5.20
E-RSC 350	3-½"	91	880	399	4.000	101.6	0.215	5.50
E-RSC 400	4"	103	1030	467	4.500	114.3	0.225	5.70
E-RSC 500	5"	129	1400	635	5.563	141.3	0.245	6.20
E-RSC 600	6"	155	1840	835	6.625	168.3	0.266	6.80

RIGID STEEL CONDUIT (RSC)

PACKING SCHEDULE (RIGID)

Trade Size		Protector Color	Quantity in Sub Bundle		Quantity per Master Bundle				Weight/Lift	
U.S.	Metric		Feet	Meters	PCS	BD's	Feet	Meters	Lbs	Kg
½"	16	Black	100	30.5	250	25	2500	762	2050	930
¾"	21	Red	50	15.2	200	40	2000	610	2178	988
1"	27	Blue	50	15.2	125	25	1250	381	2013	913
1-¼"	35	Red	-	-	90	-	900	274	1962	890
1-½"	41	Black	-	-	80	-	800	244	2099	952
2"	53	Blue	-	-	60	-	600	183	2103	954
2-½"	63	Black	-	-	37	-	370	113	2072	940
3"	78	Blue	-	-	30	-	300	91	2183	990
3-½"	91	Black	-	-	25	-	250	76	2200	998
4"	103	Blue	-	-	20	-	200	61	2059	934
5"	129	Blue	-	-	15	-	150	46	2101	953
6"	155	Blue	-	-	10	-	100	30	1841	835



APPLICABLE TOLERANCES

- **Length:** 10ft(3.05m) ± ¼" (±6.35mm).
- **Outside Diameter:**
 - ½"-2" ±0.015" (±0.38mm);
 - 2 ½"-4" ±0.025" (±0.64mm); 5"-6" ± 1 %

