



ELECTRICAL CONDUIT & STRUT BROCHURE

www.centaurinstallation.com

QUALITY, RELIABILITY, AND DURABILITY

We are committed to delivering products that meet the highest standards of performance and safety. Our comprehensive range of conduit and strut provides the foundation for success for commercial, industrial, and residential applications.

Centaur's conduit solutions provide robust protection for electrical wiring, ensuring safety and longevity in diverse environments. Available in various materials including PVC, galvanized steel, and aluminum, our conduits offer versatility for your specific needs.





ELECTRICAL CONDUIT: TYPES, APPLICATIONS, AND ADVANTAGES

Metal conduit is a preferred option for hazardous site conditions in industrial and commercial settings due to its ability to endure high temperatures and pressures. Its compatibility with grounding requirements simplifies installation and enhances electrical safety, as metal conduits can serve as the grounding conductor in certain setups. Classified into various types such as EMT, IMC, RMC and ARC, each serves specific purposes based on their properties. RMC and IMC conduits excel in pressure-bearing capabilities, making them ideal for heavy-duty applications prone to physical damage. On the other hand, EMT conduits offer flexibility, making them easier to bend and cut, facilitating smoother and quicker wire installations, which can be advantageous for creating seamless runs in electrical systems.

When considering conduit options for moist applications like underground installations, PVC emerges as a favorable choice due to its watertight properties. PVC exhibits resilience against corrosive elements such as salt water and chemicals, offering durability in challenging environments where steel conduit might succumb to corrosion. Additionally, PVC's lightweight yet robust nature makes it an attractive option. Centaur offers both Schedule 40 and Schedule 80 PVC conduit options. Schedule 40 is the most common and is suitable for most applications that don't pose a high risk of damage, including direct burial. Schedule 80 pipe is designed with a thicker, stronger wall which offers superior mechanical protection. It also provides stronger UV resistance to the Schedule 40, making it more suitable for applications with direct sunlight exposure.

PVC SCHEDULE 40 VS PVC SCHEDULE 80		
FACTOR	PVC SCHEDULE 40	PVC SCHEDULE 80
WALL THICKNESS	Thinner walls. E.g., 0.133 inches for 1-inch pipe.	Thicker walls. E.g., 0.179 inches for 1-inch pipe.
PRESSURE RATING	Lower. Approx. 450 psi for 1-inch pipe at 73°F	Higher. Approx. 630 psi for 1-inch pipe at 73°F
DURABILITY	Suitable for areas without high risk of physical damage.	Preferred where additional protection is needed.
APPLICATIONS	Ideal for protecting cables in residential and light commercial settings. Suitable for direct burial, with proper installation and where conditions are less demanding.	Used in industrial, underground, or exposed outdoor locations requiring robust protection. Specifically recommended for direct burial where higher durability is needed.
COST	Less expensive, cost-effective for standard installations.	More expensive, justified by higher durability demands.

WHAT ADVANTAGES DOES PVC CONDUIT OFFER OVER METAL CONDUIT?

PVC conduit is chosen over metal conduit for a multitude of reasons. Its more cost-effectiveness makes it an attractive option for projects of various scales, its lightweight nature and ease of cutting simplify installation, reducing both time and labor costs in comparison to rigid metal conduit, which necessitates specialized tools for cutting and bending. PVC conduit's resistance to corrosion ensures durability, particularly in outdoor or corrosive environments where rigid metal conduit may degrade over time. Its non-conductive properties enhance safety, especially in situations where electrical conductivity is a concern. PVC conduit's chemical resistance makes it suitable for installations where exposure to corrosive substances are possible. Its flexibility allows for easy routing around obstacles or through tight spaces, providing versatility in installation. Lastly, PVC conduit aids in reducing noise transmission compared to metal conduit, which is advantageous in residential or noise-sensitive environments.

WHAT ADVANTAGES DOES SCHEDULE 80 PVC OFFER OVER SCHEDULE 40 PVC?

Schedule 80 PVC conduit may be chosen over Schedule 40 PVC for applications requiring higher pressure handling, increased durability, enhanced chemical resistance, compliance with regulations, or a longer service life due to its thicker wall, higher pressure rating, and potential for better resistance to impacts and chemicals.

WHAT ADVANTAGES DOES METAL CONDUIT OFFER OVER PVC CONDUIT?

Metal rigid conduit is often preferred over PVC conduit for various applications due to its array of advantages. Firstly, its superior mechanical strength and durability make it suitable for environments where physical impacts and crushing forces are a concern. Additionally, metal conduit offers better fire resistance compared to PVC, which is advantageous in scenarios prioritizing fire protection, such as commercial or industrial buildings. In areas with high temperatures, metal conduit's ability to withstand elevated temperatures without deforming or melting makes it a preferred choice over PVC. Moreover, its resistance to damage from rodents and other animals enhances its suitability for installations where such threats exist. This durability extends its service life, offering longevity and reliability over time, particularly in harsh environments. Metal conduit also provides increased security against tampering or vandalism, a feature beneficial for outdoor installations or public spaces. Furthermore, its compatibility with grounding requirements simplifies installation and enhances electrical safety, as metal conduits can serve as the grounding conductor in certain setups.

PVC SCHEDULE 40

Our Schedule 40 and 80 PVC is produced in accordance with UL651 and ASTM 1784 standards. Crafted to endure severe conditions, our rigid non-metallic PVC conduit is engineered to withstand corrosive elements. This ensures that the conduit retains its structural integrity over time, even when subjected to moisture, sunlight, or chemicals.



FEATURES

- UL 651 file #
- NEMATC2
- Sunlight resistant per UL651
- UL Listed for 90° conductors or cable
- Manufactured with one integral solvent-weld bell standard per length
- Corrosion resistant
- 10' lengths (20' lengths available upon request)

CATALOG #	STOCK CODE	SIZE	LENGTH	SCHEDULE	PIECES PER LIFT	FEET PER LIFT	INSIDE DIAMETER (IN)	OUTSIDE DIAMETER (IN)	BELL DEPTH (IN)	WEIGHT PER LIFT / LBS
PVC4050	0583-4460	1/2"	10'	40	600	6000	0.578	0.84	1.5	960
PVC4075	0583-4463	3/4"	10'	40	400	4400	0.78	1.05	1.75	968
PVC4100	0583-4466	1"	10'	40	360	3600	1.004	1.315	2	1152
PVC4125	0583-4469	1-1/4"	10'	40	330	3300	1.335	1.66	2.25	1419
PVC4150	0583-4472	1-1/2"	10'	40	225	2250	1.564	1.9	2.75	1170
PVC4200	0583-4475	2"	10'	40	140	1400	2.021	2.375	3	980
PVC4250	0583-4478	2-1/2"	10'	40	93	930	2.414	2.875	3.25	1162.5
PVC4300	0583-4481	3"	10'	40	88	880	3.008	3.5	3.75	1372.8
PVC4350	0583-4487	3-1/2"	10'	40	63	630	3.486	4	4	1184.4
PVC4400	0583-4484	4"	10'	40	57	570	3.961	4.5	4.5	1271.1
PVC4500	0588-0291	5"	10'	40	38	380	4.975	5.563	5.5	1180
PVC4600	0588-0294	6"	10'	40	26	260	5.986	6.625	6.12	1048

PVC SCHEDULE 80

Our Schedule 40 and 80 PVC is produced in accordance with UL651 and ASTM 1784 standards. Crafted to endure severe conditions, our rigid non-metallic PVC conduit is engineered to withstand corrosive elements. This ensures that the conduit retains its structural integrity over time, even when subjected to moisture, sunlight, or chemicals.



FEATURES

- UL 651 file #
- NEMATC2
- Sunlight resistant per UL651
- UL Listed for 90° conductors or cable
- Manufactured with one integral solvent-weld bell standard per length
- Corrosion resistant
- 10' lengths (20' lengths available upon request)

CATALOG #	STOCK CODE	SIZE	LENGTH	SCHEDULE	PIECES PER LIFT	FEET PER LIFT	INSIDE DIAMETER (IN)	OUTSIDE DIAMETER (IN)	BELL DEPTH (IN)	WEIGHT PER LIFT / LBS
PVC8050	0631-3929	1/2"	10'	80	600	6000	0.502	0.84	1.5	1230
PVC8075	0631-3932	3/4"	10'	80	400	4400	0.698	1.05	1.75	1223
PVC8100	0631-3938	1"	10'	80	360	3600	0.91	1.315	2	1476
PVC8125	0631-3941	1-1/4"	10'	80	330	3300	1.227	1.66	2.25	1865
PVC8150	0631-3944	1-1/2"	10'	80	225	2250	1.446	1.9	2.75	1638
PVC8200	0631-3947	2"	10'	80	140	1400	1.881	2.375	3	1405
PVC8250	0631-3950	2-1/2"	10'	80	93	930	2.25	2.875	3.25	1424
PVC8300	0631-3950	3"	10'	80	88	880	2.82	3.5	3.75	1803
PVC8350	0631-3956	3-1/2"	10'	80	63	630	3.486	4	4	1575
PVC8400	0631-3962	4"	10'	80	57	570	3.737	4.5	4.5	1780
PVC8500	0631-3965	5"	10'	80	38	380	4.713	5.563	5.5	1645
PVC8600	0631-3968	6"	10'	80	26	260	5.646	6.625	6.12	1548

EMT CONDUIT

Our Electrical Metallic Tubing (EMT) is crafted from high-quality mild strip steel within cutting-edge pipe mills, surfaces are coated with zinc using a hot dip galvanizing method. Additionally, our ID coating guarantees corrosion resistance and facilitates smooth wire pulling.

FEATURES

- UL797
- Manufactured in accordance with ANSI C80.3
- NEC Article 358
- EMI shielding
- Fire resistant



CATALOG #	STOCK CODE	SIZE	COLOR CODE	LENGTH	PIECES PER LIFT	FEET PER LIFT	OUTSIDE DIAMETER (IN)	WALL THICKNESS (IN)	WEIGHT PER LIFT / LBS
EMT050	0556-4151	1/2"	●	10'	700	7000	0.706	0.042	2079
EMT075	0556-4154	3/4"	●	10'	500	5000	0.922	0.049	2277
EMT100	0556-4157	1"	●	10'	300	3000	1.163	0.057	2020
EMT125	0556-4160	1-1/4"	●	10'	200	2000	1.51	0.065	2006
EMT150	0556-4163	1-1/2"	●	10'	150	1500	1.74	0.065	1742
EMT200	0556-4166	2"	●	10'	120	1200	2.197	0.065	1774
EMT250	0556-4169	2-1/2"	●	10'	61	610	2.875	0.072	1314
EMT300	0556-4175	3"	●	10'	51	510	3.5	0.072	1339
EMT350	0556-4178	3-1/2"	●	10'	37	370	4	0.083	1289
EMT400	0556-4187	4"	●	10'	30	300	4.5	0.083	1177

IMC CONDUIT

Our Intermediate Metal Conduit (IMC) is crafted from high-quality mild strip steel within cutting-edge pipe mills. Surfaces are coated with zinc using a hot dip galvanizing method accompanied by our ID coating. This conduit presents a cost effective and a lighter-weight alternative to Rigid Metal Conduit (RMC) while ensuring exceptional protection.

FEATURES

- UL1242
- Manufactured in accordance with ANSI C80.6
- NEC 250.118(3)



CATALOG #	STOCK CODE	SIZE	COLOR CODE	LENGTH	PIECES PER LIFT	FEET PER LIFT	OUTSIDE DIAMETER (IN)	WALL THICKNESS (IN)	WEIGHT PER LIFT / LBS
IMC050	0566-9121	1/2"	●	10'	350	3500	0.815	0.078	2170
IMC075	0566-9124	3/4"	●	10'	250	2500	1.029	0.083	2100
IMC100	0566-9127	1"	●	10'	170	1700	1.29	0.093	2023
IMC125	0566-9130	1-1/4"	●	10'	135	1350	1.638	0.095	2133
IMC150	0566-9133	1-1/2"	●	10'	110	1100	1.883	0.1	2134
IMC200	0566-9136	2"	●	10'	80	800	2.36	0.105	2048
IMC250	0566-9139	2-1/2"	●	10'	37	370	2.857	0.15	1632
IMC300	0566-9142	3"	●	10'	30	300	3.476	0.15	1629
IMC350	0566-9151	3-1/2"	●	10'	24	240	3.971	0.15	1510
IMC400	0566-9154	4"	●	10'	24	240	4.466	0.15	1680

RMC CONDUIT

Our rigid metal conduit (RMC) is crafted from high-quality mild strip steel within cutting-edge pipe mills. Surfaces are coated with zinc using a hot dip galvanizing method accompanied by our ID coating. Our conduit's ductility characteristics provide easy bending, cutting, and threading in the field.

FEATURES

- UL6
- Manufactured in accordance with ANSI C80.1
- NEC Article 344



CATALOG #	STOCK CODE	SIZE	COLOR CODE	LENGTH	PIECES PER LIFT	FEET PER LIFT	OUTSIDE DIAMETER (IN)	WALL THICKNESS (IN)	WEIGHT PER LIFT / LBS
RMC050	0563-1882	1/2"	●	10'	250	2500	0.84	0.104	2050
RMC075	0563-1885	3/4"	●	10'	200	2000	1.05	0.107	2178
RMC100	0563-1888	1"	●	10'	125	1250	1.315	0.126	2013
RMC125	0563-1891	1-1/4"	●	10'	90	900	1.66	0.133	1962
RMC150	0563-1894	1-1/2"	●	10'	80	800	1.9	0.138	2103
RMC200	0563-1897	2"	●	10'	60	600	2.375	0.146	2100
RMC250	0563-1900	2-1/2"	●	10'	37	370	2.875	0.193	2068
RMC300	0563-1903	3"	●	10'	30	300	3.5	0.205	2180
RMC350	0563-1906	3-1/2"	●	10'	25	250	4	0.215	2200
RMC400	0563-1909	4"	●	10'	20	200	4.5	0.225	2059
RMC500	0563-1912	5"	●	10'	15	150	5.563	0.245	2100
RMC600	0563-1915	6"	●	10'	10	100	6.625	0.266	1841

ARC CONDUIT

Our aluminum rigid conduit (ARC) is made from high-strength aluminum alloy that ensures strength and corrosion resistance. Aluminum rigid conduit provides lightweight, excellent mechanical protection at dry, wet, exposed, concealed, or hazardous locations. The lightweight design allows for easy installation.

FEATURES

- UL6A
- Manufactured in accordance with ANSI C80.5
- NEC Article 344

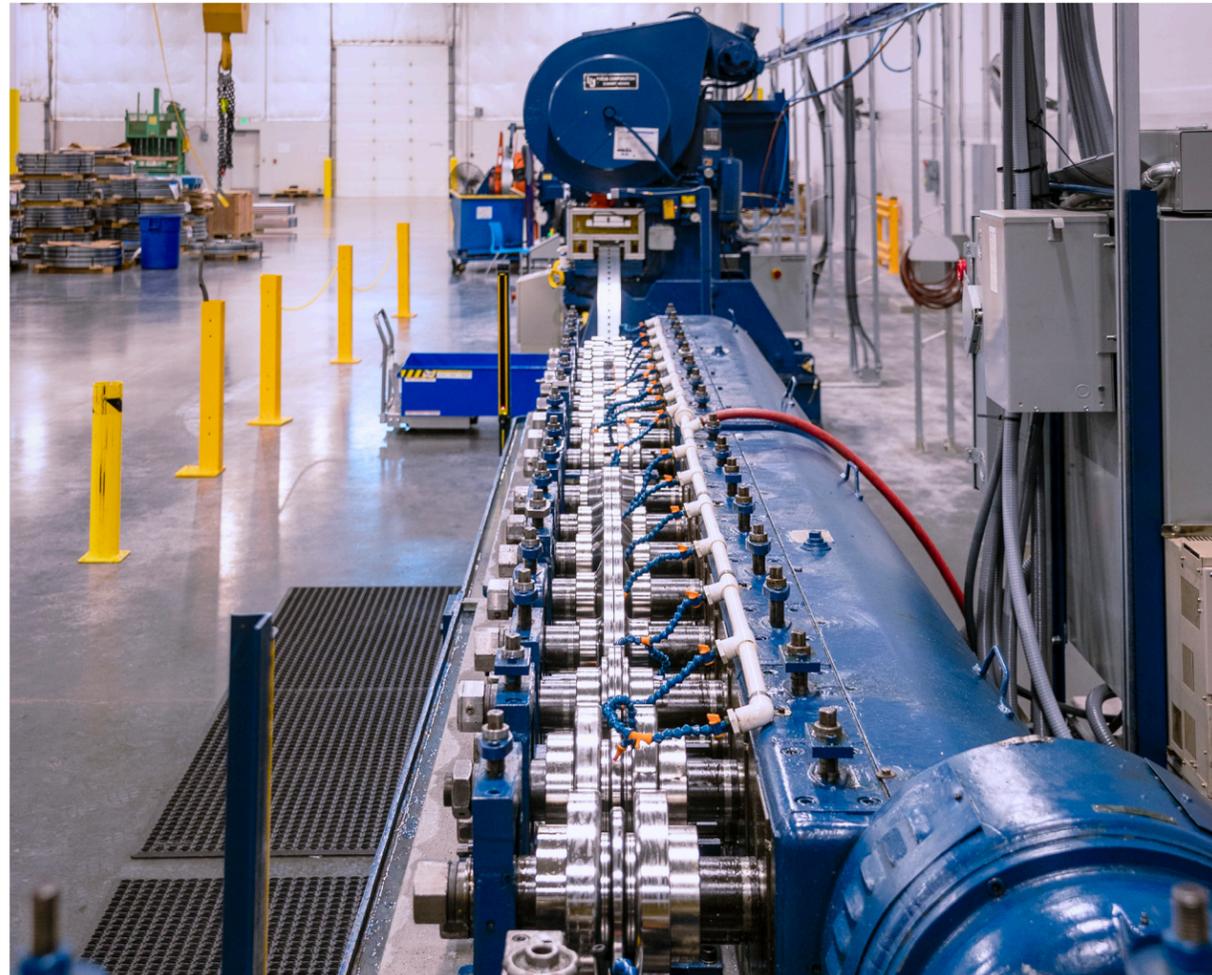


CATALOG #	STOCK CODE	SIZE	COLOR CODE	LENGTH	PIECES PER LIFT	FEET PER LIFT	OUTSIDE DIAMETER (IN)	WALL THICKNESS (IN)	WEIGHT PER LIFT / LBS
ARC050	0581-7978	1/2"	●	10'	250	2500	0.84	0.104	703
ARC075	0581-7981	3/4"	●	10'	250	2500	1.05	0.107	935
ARC100	0581-7984	1"	●	10'	200	2000	1.315	0.126	1090
ARC125	0581-7987	1-1/4"	●	10'	100	1000	1.66	0.133	716
ARC150	0581-7990	1-1/2"	●	10'	100	1000	1.9	0.138	887
ARC200	0581-7993	2"	●	10'	45	450	2.375	0.146	533
ARC250	0581-7996	2-1/2"	●	10'	30	300	2.875	0.193	563
ARC300	0581-7999	3"	●	10'	20	200	3.5	0.205	493
ARC350	0581-8002	3-1/2"	●	10'	20	200	4	0.215	591
ARC400	0581-8005	4"	●	10'	20	200	4.5	0.225	700
ARC500	0581-8008	5"	●	10'	8	80	5.563	0.245	383
ARC600	0581-8011	6"	●	10'	6	60	6.625	0.266	378

STRUT: VERSATILE SUPPORT SYSTEM FOR WIRING AND COMPONENTS

Strut, also known as strut channel or channel strut, is a versatile structural component used for support and mounting purposes across various industries. It provides a stable framework for supporting pipes, conduits, electrical equipment, HVAC components, cable trays, and more. Additionally, strut is utilized in building structural framing, industrial shelving, solar panel installations, and architectural applications. Its strength, versatility, ease of installation, and adaptability make it an essential element in many construction, electrical, and mechanical projects.

Our Strut is made from structural grade carbon steel and is pre-galvanized with G90 zinc coating to prevent corrosion. We offer 12 gauge and 14 gauge in standard 10' and 20' lengths. Custom options available upon request.



STRUT CHANNEL PART NUMBER CREATOR

SAMPLE PART NUMBER SCG12S120PG



TYPE	GAUGE	SIZE	PATTERN	LENGTH	MATERIAL/FINISH
SC	G1	2	S	120	PG

STRUT CHANNEL PART NUMBER CREATOR

TYPE		GAUGE		SIZE	
SINGLE CHANNEL	SC	12 GAUGE	G1	1 5/8 X 13/16	1
BACK TO BACK	BXB	14 GAUGE	G2	1 5/8 X 1 5/8	2
				1 5/8 X 2 7/16	3
				1 5/8 X 3 1/4	4
PATTERN		LENGTH		MATERIAL/FINISH	
BLANK	BK	1 FT	12	PRE GALVANIZED	PG
SLOTS	S	2 FT	24	HOT DIPPED	HD
		6 FT	72	304 STAINLESS	S4
		10 FT	120	316 STAINLESS	S6
		20 FT	240		

QUESTIONS ABOUT ORDERING?

We'd be happy to help! Reach out to the at team at info@centaurinstallation.com



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QUESTIONS?

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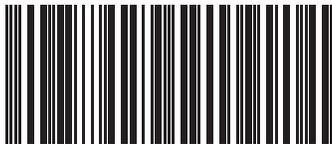
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