

Carlson® Rigid Nonmetallic Conduit (RNC), Fittings & Accessories

Carlson® manufactures the most complete line of nonmetallic conduits and fittings in the electrical industry. Carlson Schedule 40 and Schedule 80 conduits are designed for use aboveground and underground as described in the National Electrical Code. Specify only Carlson conduits and fittings to insure raceway system integrity.

Features

Ease of Installation Nonmetallic conduits are 1/4 to 1/5 the weight of metallic systems, can be installed in less than half the time, and are easily fabricated on the job.

Safety Nonmetallic conduits are nonconductive, assuring a safe system.

Impact Resistant Carlson Schedule 40 and Schedule 80 nonmetallic conduits are resistant to sunlight and are listed for exposed or outdoor usage. The use of expansion fittings allows the system to expand and contract with temperature variations.

Corrosion Resistant Carlson conduits and fittings are nonmetallic and will not rust or corrode.

Carlson nonmetallic Schedule 40 and Schedule 80 conduits and elbows are manufactured to NEMA TC-2, Federal specification WC1094A and UL 651 specifications. Fittings are manufactured to NEMA TC-3, Federal specification WC1094A and UL514B. Both conduit and fittings carry respective UL or ETL Listings and UL or ETL labels.

Schedule 40 PVC Rigid Nonmetallic Conduit (RNC). (Heavy Wall EPC)

Listed for underground applications encased in concrete or direct burial. Also for use in exposed or concealed applications aboveground.

- Sunlight resistant • Rated for use with 90°C conductors • Superior weathering characteristics



RUS Listed

Schedule 40 Heavy Wall

With Integral Bell*



Part No.			Std. Crate Qty.		Wt. Per 100'	Dimensions		
10'	20'	Nom. Size	10'	20'		O.D.	I.D.	Wall
49005-010		1/2"	6000'		17	.840	.622	.109
49007-010	49007-020	3/4"	4400'	8800'	23	1.050	.824	.113
49008-010	49008-020	1"	3600'	7200'	34	1.315	1.049	.133
49009-010	49009-020	1 1/4"	3300'	6600'	46	1.660	1.380	.140
49010-010	49010-020	1 1/2"	2250'	4500'	55	1.900	1.610	.145
49011-010	49011-020	2"	1400'	2800'	73	2.375	2.067	.154
49012-010	49012-020	2 1/2"	930'	1860'	124	2.875	2.469	.203
49013-010	49013-020	3"	880'	1760'	163	3.500	3.068	.216
49014-010	49014-020	3 1/2"	630'	1260'	196	4.000	3.548	.226
49015-010	49015-020	4"	570'	1140'	232	4.500	4.026	.237
49016-010	49016-020	5"	380'	760'	315	5.563	5.047	.258
49017-010	49017-020	6"	260'	520'	409	6.625	6.065	.280

Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

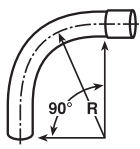
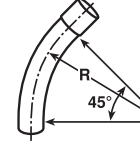
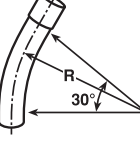
- Notes:** 1. Special fittings and conduit sizes will be quoted on request.
2. DON'T FORGET TO ORDER CEMENT.
3. Carlson reserves the right to ship to the nearest unitized quantity.

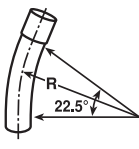
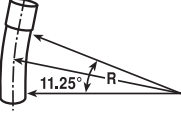
Rigid Nonmetallic Conduit – Schedule 40 Elbows

Schedule 40 Elbows Standard Radius

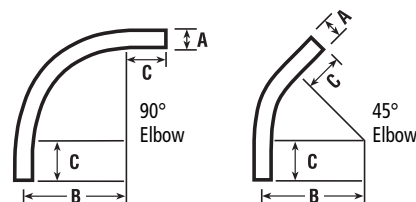
Available in plain and integral belled end for use with nonmetallic solvent weld fittings.



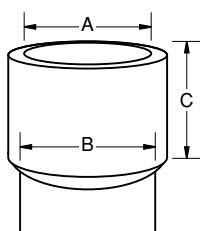
Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow 	UA9AD	UA9ADB	1/2"	50	50
	UA9ADR-CAR	UA9ADB	1/2"	25	50
	UA9AE	UA9AEB	3/4"	25	25
	UA9AFR-CTN	UA9AFB-CTN	1"	25	25
	UA9AG	UA9AGB	1 1/4"	20	20
	UA9AH	UA9AHB	1 1/2"	25	25
	UA9AJ	UA9AJB	2"	20	20
	UA9AJ-CAR	UA9AJB	2"	5	20
	UA9AK-CAR	UA9AKB-CAR	2 1/2"	10	10
	UA9AL	UA9ALB-CAR	3"	1	5
	UA9AM	UA9AMB	3 1/2"	1	20
	UA9AN	UA9ANB	4"	1	1
	UA9AP	UA9APB	5"	1	1
	UA9AR	UA9ARB	6"	1	1
	UA7AD	UA7ADB	1/2"	50	50
	UA7AE	UA7AEB	3/4"	25	25
45° Elbow 	UA7AER-CAR	UA7AEB	3/4"	15	25
	UA7AF	UA7AFB	1"	20	20
	UA7AF-CAR	UA7AFB	1"	15	20
	UA7AG	UA7AGB	1 1/4"	20	20
	UA7AH	UA7AHB	1 1/2"	20	20
	UA7AJ	UA7AJB	2"	20	20
	UA7AJ-CAR	UA7AJB-CAR	2"	4	4
	UA7AK	UA7AKB	2 1/2"	20	20
	UA7AK-CAR	UA7AKB-CAR	2 1/2"	5	5
	UA7AL-CAR	UA7ALB	3"	5	25
	UA7AL-CAR	UA7ALB-CAR	3"	5	10
	UA7AM	UA7AMB	3 1/2"	1	20
	UA7AN	UA7ANB	4"	1	20
	UA7AP	UA7APB	5"	1	1
	UA7AR	UA7ARB	6"	1	1
	UA6AD	UA6ADB	1/2"	50	50
30° Elbow 	UA6AE	UA6AEB	3/4"	25	25
	UA6AF	UA6AFB	1"	25	1
	UA6AG	UA6AGB	1 1/4"	20	20
	UA6AH	UA6AHB	1 1/2"	25	1
	UA6AJ	UA6AJB	2"	20	20
	UA6AK	UA6AKB	2 1/2"	10	20
	UA6AL	UA6ALB	3"	1	1
	UA6AM	UA6AMB	3 1/2"	1	1
	UA6AN	UA6ANB	4"	1	1
	UA6AP	UA6APB	5"	1	1
	UA6AR	UA6ARB	6"	1	1

Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
22 1/2° Elbow 	UA5AD	—	1/2"	1	—
	UA5AE	—	3/4"	1	—
	UA5AF	—	1"	1	—
	UA5AG	—	1 1/4"	1	—
	UA5AH	—	1 1/2"	1	—
	UA5AJ	UA5AJB	2"	25	1
	UA5AK	—	2 1/2"	20	—
	UA5AL	UA5ALB	3"	5	1
	UA5AM	—	3 1/2"	1	—
	UA5AN	UA5ANB	4"	1	1
	UA5AP	UA5APB	5"	1	1
	UA5AR	UA5ARB	6"	1	1
	UA3AD	—	1/2"	1	—
	UA3AE	—	3/4"	1	—
	UA3AF	—	1"	1	—
	UA3AG	—	1 1/4"	1	—
11 1/4° Elbow 	UA3AH	—	1 1/2"	1	—
	UA3AJ	—	2"	1	—
	UA3AK	—	2 1/2"	1	—
	UA3AL	—	3"	1	—
	UA3AM	—	3 1/2"	1	—
	UA3AN	UA3ANB	4"	1	1
	UA3AP	—	5"	1	—
	UA3AR	—	6"	1	—

Standard Radius Elbow Dimensions



Integral Belled End Dimensions



Trade Size	A		B		C	
	At Entrance Max.	Min.	At Bottom Max.	Min.	Socket Depth Max.	Min.
1/2"	.860	0.844	0.844	0.828	1.500	0.652
3/4"	1.074	1.054	1.056	1.036	1.500	0.719
1"	1.340	1.320	1.320	1.300	1.875	0.875
1 1/4"	1.689	1.665	1.667	1.643	2.000	0.938
1 1/2"	1.930	1.906	1.906	1.882	2.000	1.062
2"	2.405	2.381	2.381	2.357	2.000	1.125
2 1/2"	2.905	2.875	2.883	2.853	3.000	1.469
3"	3.530	3.500	3.507	3.477	3.125	1.594
3 1/2"	4.065	3.965	4.007	3.977	3.250	1.687
4"	4.565	4.465	4.506	4.476	3.375	1.750
5"	5.643	5.543	5.583	5.523	3.625	1.937
6"	6.708	6.608	6.644	6.584	3.750	2.125

Size	A	B Min. (Radius)	C Min.
1/2"	.840	4"	1 1/2"
3/4"	1.050	4 1/2"	1 1/2"
1"	1.315	5 3/4"	1 7/8"
1 1/4"	1.660	7 1/4"	2"
1 1/2"	1.900	8 1/4"	2"
2"	2.375	9 1/2"	2"
2 1/2"	2.875	10 1/2"	3"
3"	3.500	13"	3 1/8"
3 1/2"	4.000	15"	3 1/4"
4"	4.500	16"	3 3/8"
5"	5.563	24"	3 5/8"
6"	6.625	30"	3 3/4"