

Dimensions of Sch40 Electrical Conduit

Table 1

Metric designator	Trade size	Outside diameter, mm†		Average outside diameter, mm‡		Wall thickness, mm		Minimum average internal diameter, mm
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9
16	1/2	21.13	21.54	21.23	21.44	2.77	3.10	14.57
21	3/4	26.42	26.92	26.57	26.77	2.87	3.23	19.77
27	1	33.15	33.66	33.27	33.53	3.38	3.79	25.40
35	1-1/4	41.86	42.47	42.04	42.29	3.56	3.99	31.75
41	1-1/2	47.95	48.57	48.11	48.41	3.68	4.11	38.10
53	2	60.02	60.63	60.17	60.48	3.91	4.37	50.80
63	2-1/2	72.64	73.41	72.85	73.20	5.16	5.77	61.30
78	3	88.52	89.28	88.70	89.10	5.49	6.15	76.20
91	3-1/2	101.22	101.98	101.40	101.80	5.74	6.43	88.40
103	4	113.92	114.68	114.07	114.53	6.02	6.73	100.10
129	5	140.54	142.06	141.05	141.55	6.55	7.34	125.85
155	6	167.39	169.16	168.00	168.55	7.11	7.98	149.75

*Conduit manufactured to the dimensions of this Table shall have a minimum average inside diameter as specified in Table 9 of the Canadian Electrical Code, Part I.

†No individual overall diameter measurement shall be less than the value specified in Column 3 or greater than the value specified in Column 4.

‡The average overall diameter shall be not less than the value specified in Column 5 nor greater than the value specified in Column 6.

Dimensions of Sch40 Moulded Couplings

Table 2

Metric designator	Trade size	Minimum length, mm	Minimum outside diameter, mm
16	1/2	33.9	26.6
21	3/4	38.8	32.7
27	1	45.7	40.1
35	1-1/4	53.9	50.7
41	1-1/2	55.7	56.6
53	2	61.1	69.0
63	2-1/2	80.9	84.3
78	3	87.3	101.6
91	3-1/2	92.0	114.3
103	4	95.2	127.0
129	5	106.3	155.4
155	6	115.8	187.2

Dimensions of Sch40 Integral Couplings
Table 3

Metric designator	Trade size	Socket diameter, mm						Minimum socket depth, C, mm
		At entrance A			At bottom B			
		Minimum	Maximum	Average	Minimum	Maximum	Average	
16	1/2	21.44	21.84	21.64 ± 0.10	21.03	21.44	21.23 ± 0.10	16.56
21	3/4	26.77	27.28	27.03 ± 0.10	26.31	26.82	26.57 ± 0.10	18.26
27	1	33.53	34.04	33.78 ± 0.13	33.02	33.53	33.27 ± 0.13	22.22
35	1-1/4	42.30	42.90	42.60 ± 0.13	41.73	42.34	42.04 ± 0.13	23.83
41	1-1/2	48.41	49.02	48.72 ± 0.15	47.80	48.41	48.11 ± 0.15	26.97
53	2	60.48	61.09	60.78 ± 0.15	59.87	60.48	60.17 ± 0.15	28.58
63	2-1/2	73.02	73.79	73.41 ± 0.18	72.47	73.23	72.85 ± 0.18	37.31
78	3	88.90	89.66	89.28 ± 0.20	88.32	89.08	88.70 ± 0.20	40.49
91	3-1/2	100.71	103.25	101.98 ± 0.20	101.02	101.78	101.40 ± 0.20	42.85
103	4	113.41	115.95	114.68 ± 0.23	113.70	114.45	114.07 ± 0.23	44.45
129	5	140.80	143.33	142.06 ± 0.25	140.28	141.80	141.05 ± 0.25	49.20
155	6	167.84	170.38	169.11 ± 0.28	167.23	168.76	168.00 ± 0.28	53.98

*The wall thickness of the integral coupling shall be acceptable if the coupling is manufactured from conduit meeting the requirements of Table 1.

Note: Dimensions A, B, and C are shown in Figure 1.

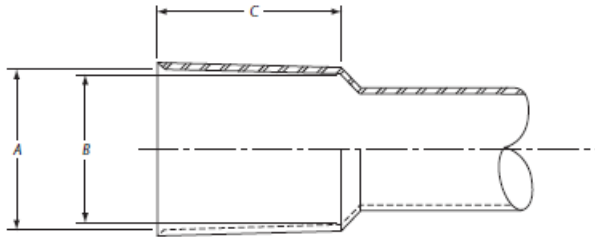


Figure 1: Sch40 Integral Coupling Dimensional Drawing

Dimensions for Sch40 Elbows and Bends

Table 4

Metric designator	Trade size	Minimum radius of curvature, R , mm	Minimum dimension, L_s , mm
16	1/2	101	38
21	3/4	114	38
27	1	146	47
35	1-1/4	184	50
41	1-1/2	209	50
53	2	241	50
63	2-1/2	266	76
78	3	330	79
91	3-1/2	381	82
103	4	406	85
129	5	609	92
155	6	762	95

Notes:

- (1) Dimensions R and L_s are shown in Figure 2.
- (2) The radius of curvature tolerance is ± 15 mm. The angle tolerance is $\pm 2^\circ$.

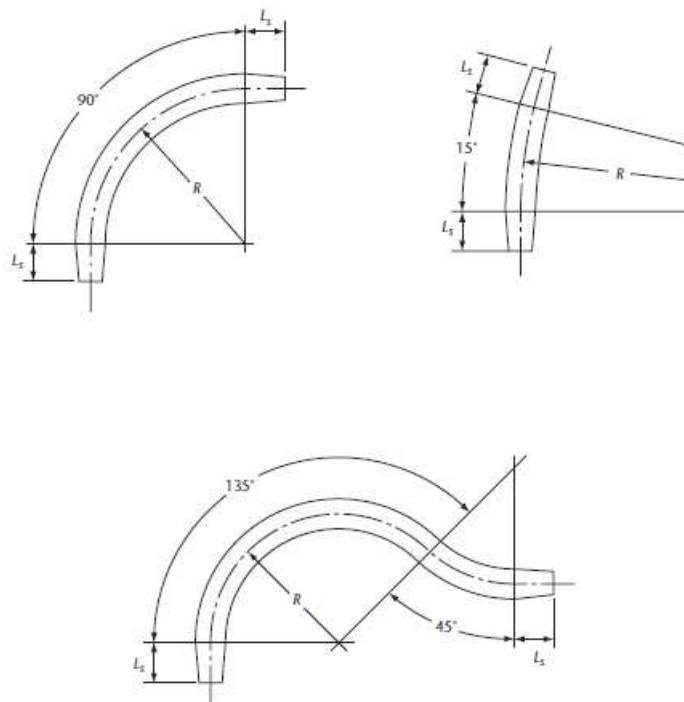


Figure 2: Sch40 Bends

Minimum Dimensions for Conduit Types EBI, DBII and ESII

Table 5

Metric designator	Trade size	Average outside diameter, mm		Minimum average inside diameter, mm*	Minimum wall thickness, mm					Sleeve stock average inside diameter, mm*
		Minimum	Maximum		Corrugated			At valley		
					Inner wall	Outer wall				
53	2	57.00	57.30	50.80	1.78	1.78	—	—	—	57.53
78	3	82.35	82.75	76.20	1.78	2.03	0.43	0.62	0.51	83.01
91	3-1/2	94.50	95.00	88.40	2.03	2.29	—	—	—	95.25
103	4	106.85	107.30	100.10	2.41	2.67	0.43	0.62	0.51	107.54
116	4-1/2	121.20	121.70	114.30	2.54	2.79	—	—	—	121.97
129	5	134.35	134.85	126.35	3.18	3.81	—	—	—	135.13
155	6	159.10	159.65	149.75	3.56	3.94	—	—	—	159.92

*When measured in accordance with Clause 8 of ASTM D 2122.

Socket Dimensions of EBI, DBII and ESII Moulded Solvent Cement Fittings

Table 6

Metric designator	Trade size	Average entrance diameter, mm	Average bottom diameter, mm	Minimum depth, mm
53	2	57.53 ± 0.15	57.02 ± 0.15	18.92
78	3	83.08 ± 0.20	82.42 ± 0.20	37.97
91	3-1/2	95.38 ± 0.23	94.51 ± 0.23	38.10
103	4	107.57 ± 0.23	106.91 ± 0.23	43.94
116	4-1/2	122.43 ± 0.25	121.06 ± 0.25	50.80
129	5	135.38 ± 0.25	134.47 ± 0.25	62.99
155	6	160.15 ± 0.28	159.26 ± 0.28	74.93

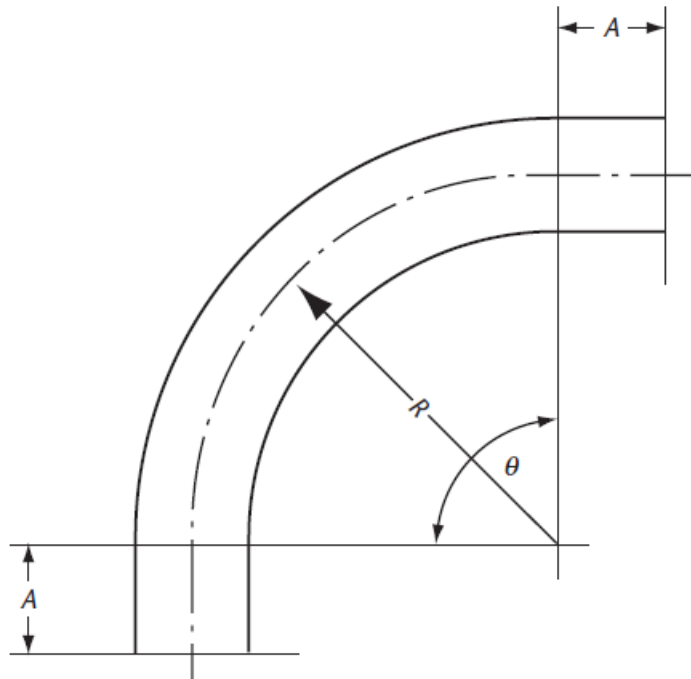
Radius of Curvature and Minimum Straight Length at Ends of EBI, DBII and ESII Sweep Bends

Table 7

Metric designator	Trade size	Radius of curvature, mm	Dimension A (minimum), mm
53	2	610 or 900	38.0
78	3	760 or 900	38.0
91	3-1/2	900 or 1500	44.5
103	4	900 or 1500	50.5
116	4-1/2	900 or 1500	57.0
129	5	1060 or 1500	63.5
155	6	1220 or 1500	82.5

Notes:

- (1) The radius of curvature and dimension A are shown in Figure 3.
- (2) Radius of curvature tolerance is ± 25 mm.
- (3) Angle tolerance is $\pm 2^\circ$.



Notes:

- (1) R = radius of curvature (tolerance is ± 25 mm).
- (2) $\theta = 90 \pm 2^\circ$ maximum.

Figure 3: EBI, DBII and ESII Sweep Bends