

1" EMT BENDING CHART

Hand bender · take-up 8" · NEC min. radius 5-3/4" · Greenlee 842AH: 6-1/2" radius, gain to back of 90 3-15/16" · bends 3/4" rigid conduitbending.app

90° STUB-UP: ARROW MARK

Stub	Mark from end
10"	2"
12"	4"
14"	6"
16"	8"
18"	10"
20"	12"
24"	16"
30"	22"
36"	28"
42"	34"
48"	40"
60"	52"

Stub – 8". Hook toward the end.

BACK-TO-BACK 90S

Distance	Star	Arrow
24"	24"	16"
30"	30"	22"
36"	36"	28"
42"	42"	34"
48"	48"	40"
60"	60"	52"
72"	72"	64"
84"	84"	76"

From the back of the first 90. Star with bender reversed; arrow with hook facing the first 90.

MULTIPLIERS & SHRINK

Angle	Multiplier	Shrink / in
10°	6.0	1/16"
15°	3.9	1/8"
22.5°	2.6	3/16"
30°	2.0	1/4"
45°	1.4	3/8"
60°	1.2	1/2"

WIRES PER CONDUIT (NEC CH. 9)

Wire	THHN	XHHW	THW
#14	35	25	16
#12	26	19	13
#10	16	14	10
#8	9	8	6
#6	7	6	4
#4	4	4	3

OFFSETS: DISTANCE BETWEEN BENDS / SHRINK

Depth	10°	22.5°	30°	45°
1"	6" / 1/16"	2-5/8" / 3/16"	2" / 1/4"	1-3/8" / 3/8"
2"	12" / 1/8"	5-3/16" / 3/8"	4" / 1/2"	2-13/16" / 3/4"
3"	18" / 3/16"	7-13/16" / 9/16"	6" / 3/4"	4-3/16" / 1-1/8"
4"	24" / 1/4"	10-3/8" / 3/4"	8" / 1"	5-5/8" / 1-1/2"
5"	30" / 5/16"	13" / 15/16"	10" / 1-1/4"	7" / 1-7/8"
6"	36" / 3/8"	15-5/8" / 1-1/8"	12" / 1-1/2"	8-3/8" / 2-1/4"
8"	48" / 1/2"	20-13/16" / 1-1/2"	16" / 2"	11-3/16" / 3"
10"	60" / 5/8"	26" / 1-7/8"	20" / 2-1/2"	14" / 3-3/4"
12"	72" / 3/4"	31-3/16" / 2-1/4"	24" / 3"	16-13/16" / 4-1/2"

Add the shrink to your measurement when bending toward an obstruction.

3-POINT SADDLE: OUTER MARKS / CENTER SHIFT

Depth	45° center	60° center
1"	2-1/2" / 3/16"	2" / 1/4"
2"	5" / 3/8"	4" / 1/2"
3"	7-1/2" / 9/16"	6" / 3/4"
4"	10" / 3/4"	8" / 1"
5"	12-1/2" / 15/16"	10" / 1-1/4"
6"	15" / 1-1/8"	12" / 1-1/2"

Outer marks each side of the center mark; move the center mark by the shift.



Conduit Bending Calculator for Android

Scan with your phone camera to open it on Google Play.

- Every mark measured from the end of the pipe, corrected for your bender shoe
- Offsets, rolling offsets, saddles, kicks, 90s, segmented and concentric bends, in 3D
- Guide mode, saved jobs, PDF bend sheets, NEC fill. Works offline.

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