

Segment Bend Calculator

Use total bend angle, number of segment bends, desired radius, and a start mark to lay out equal segment bend marks.

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<https://www.elecatrix.com/conduit-bending/segment-bend-calculator/>

Inputs

Input	Value	Unit
Total bend angle	90	deg
Number of bend marks/shots	6	
Bend radius	24	in
First mark from conduit end	24	in

Results

Result	Value	Unit
Angle per bend	15	deg
Spacing intervals	5	
Spacing between marks	7.5398	in
Developed mark span	37.6991	in
Last segment mark from conduit end	61.6991	in
Bend count	6	

Formulas

$\text{angle per bend} = \text{total bend angle} / \text{number of bends}$

$\text{developed bend length} = \text{bend radius} \times \text{total angle in radians}$

$\text{spacing interval count} = \text{number of bends} - 1$

$\text{spacing between marks} = \text{developed bend length} / \text{spacing interval count}$

$\text{last segment mark} = \text{first mark} + \text{spacing between marks} \times (\text{number of bends} - 1)$

Warnings and limitations

This is a geometry layout estimate only, not a code compliance claim. Verify the actual bender, conduit size and material, springback, radius target, minimum spacing between marks, and available straight length before marking or bending.