

Conduit Offset Travel Calculator

Calculate the distance between two offset bend marks without selecting a manufacturer bender table.

Generated October 10, 2026

<https://www.elecatrix.com/conduit-bending/conduit-offset-travel-calculator/>

Inputs

Input	Value	Unit
Offset rise	4	in
Bend angle	30	deg
First mark from conduit end	24	in

Results

Result	Value	Unit
First bend mark	24	in
Second bend mark	32	in
Travel between marks	8	in
Offset multiplier	2	x
Geometry shrink	1.0718	in
Bend angle used	30	deg

Calculation details

Detail	Value	Unit
Calculation basis	Travel is the entered rise divided by the sine of the selected bend angle. The second mark adds that travel to the first mark.	
Layout boundary	Field-layout estimate only; verify bend direction, springback, bender markings, conduit size, and available straight length before bending.	

Formulas

$\text{offset multiplier} = 1 / \sin(\text{angle})$

$\text{travel between marks} = \text{rise} \times \text{offset multiplier}$

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$\text{second mark} = \text{first mark} + \text{travel}$

$\text{geometry shrink} = \text{rise} \times \tan(\text{angle} / 2)$

Warnings and limitations

This is a transparent two-bend layout calculation. Confirm the actual bender, conduit, springback, bend direction, and job conditions before marking or bending.