

Cable Pull Bend Count Calculator

Total the directional change in an entered pull route and compare cumulative and single-bend angles with project or manufacturer limits.

Generated October 10, 2026

<https://www.elecatrrix.com/wire-raceway-ampacity/cable-pull-bend-count-calculator/>

Inputs

Input	Value	Unit
Bend rows	Rows: 2	
Row 1 - Bend group label	Offset bends	
Row 1 - Bend angle	90	deg
Row 1 - Bend count	2	bends
Row 2 - Bend group label	Sweep bends	
Row 2 - Bend angle	45	deg
Row 2 - Bend count	2	bends
Entered total bend limit	360	deg
Entered single bend limit	90	deg

Results

Result	Value	Unit
Total bend count	4	bends
Total bend angle	270	deg
Largest single bend	90	deg
Remaining total bend allowance	90	deg

Status

Status	Value	Unit
Bend limit comparison	Within Entered Limits	

Calculation details

Detail	Value	Unit
--------	-------	------

Cable Pull Bend Count Calculator

Total the directional change in an entered pull route and compare cumulative and single-bend angles with project or manufacturer limits.

Generated October 10, 2026

<https://www.elecatrix.com/wire-raceway-ampacity/cable-pull-bend-count-calculator/>

Calculation basis	Each bend row multiplies entered bend angle by entered bend count. The total is compared with user-entered pull-route limits.
Pull-route boundary	Planning screen only; verify raceway route, pull boxes, cable listing, sidewall pressure, pulling tension, and adopted code requirements separately.

Formulas

$$\text{theta_row} = \text{theta_bend} \times \text{N_bend}$$

$$\text{theta_total} = \text{sum theta_row}$$

$$\text{theta_remaining} = \text{theta_limit} - \text{theta_total}$$

Warnings and limitations

This is a pull-route bend count from user-entered bends. It does not approve a pull, calculate pulling tension, check sidewall pressure, or replace adopted code and manufacturer requirements.