

Wire Pull Length Calculator

Record measured route segments and bend allowances to estimate total pull length before a wire-pull review.

Generated October 10, 2026

<https://www.elecatrix.com/wire-raceway-ampacity/wire-pull-length-calculator/>

Inputs

Input	Value	Unit
Route rows	Rows: 3	
Row 1 - Segment label	Feeder route	
Row 1 - Straight length	120	ft
Row 1 - Bend allowance	12	ft
Row 2 - Segment label	Branch route	
Row 2 - Straight length	80	ft
Row 2 - Bend allowance	8	ft
Row 3 - Segment label	Equipment entry	
Row 3 - Straight length	25	ft
Row 3 - Bend allowance	4	ft
Route source reference	Drawing E-201 and field measurement record	

Results

Result	Value	Unit
Total straight length	225	ft
Total bend allowance	24	ft
Estimated pull length	249	ft
Route row count	3	rows

Status

Status	Value	Unit
Record note	Source reference recorded	

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Calculation details

Detail	Value	Unit
Calculation basis	Estimated pull length equals the sum of entered straight lengths and bend allowances.	
Planning boundary	Planning record only; verify route measurements, cable data, pulling tension, sidewall pressure, and manufacturer limits separately.	

Formulas

Total straight length = sum entered straight lengths

Total bend allowance = sum entered bend allowances

Estimated pull length = Total straight length + Total bend allowance

Warnings and limitations

This worksheet records an early length estimate. It does not determine pulling tension, sidewall pressure, cable cut length, or manufacturer limits.