

Wire and Cable Takeoff Calculator

Calculate a preliminary run-list takeoff after route lengths and conductor or cable quantities are known.

Generated October 10, 2026

<https://www.elecatrrix.com/wire-raceway-ampacity/wire-cable-takeoff-calculator/>

Inputs

Input	Value	Unit
Run rows	Rows: 2	
Row 1 - Run label	Branch circuit	
Row 1 - Route length	80	ft
Row 1 - Conductors or cable quantity	3	
Row 1 - Parallel runs	1	runs
Row 1 - Drop allowance	6	ft
Row 1 - Termination allowance	4	ft
Row 2 - Run label	Equipment run	
Row 2 - Route length	120	ft
Row 2 - Conductors or cable quantity	4	
Row 2 - Parallel runs	1	runs
Row 2 - Drop allowance	8	ft
Row 2 - Termination allowance	6	ft
Waste allowance	5	%

Results

Result	Value	Unit
Total route length	200	ft
Quantity before waste	806	ft
Waste allowance	40.3	ft
Recommended planning quantity	846.3	ft

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Counted run rows	2	rows
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Calculation details

Detail	Value	Unit
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Calculation basis	Each row adds route length, drop allowance, and termination allowance, then multiplies by conductor count and parallel runs. Waste is applied after all row quantities are totaled.	
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Takeoff boundary	Planning and staging quantity only; verify drawings, field route, material labels, conductor configuration, spool constraints, procurement units, and installation conditions separately.	
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Formulas

Base row length = route length + drop allowance + termination allowance

Row quantity = base row length x conductor or cable quantity x parallel runs

Quantity before waste = sum row quantities

Waste allowance = quantity before waste x (waste percent/100)

Recommended planning quantity = quantity before waste + waste allowance

Warnings and limitations

This is a material-planning estimate from user-entered run rows. It does not read drawings, infer route lengths, choose conductor size or product, calculate labor, or create a procurement-ready bill of materials.