

Conductor Weight Calculator

Calculate conductor or cable material weight from verified unit weight, route length, quantity, parallel runs, waste, and reel tare.

Generated October 10, 2026

<https://www.elecatrix.com/wire-raceway-ampacity/conductor-weight-calculator/>

Inputs

Input	Value	Unit
Material rows	Rows: 1	
Row 1 - Material label	Verified conductor	
Row 1 - Unit weight	100	lb/1,000 ft
Row 1 - Length	500	ft
Row 1 - Material quantity	3	
Row 1 - Parallel runs	1	runs
Waste allowance	5	%
Reel or tare weight	N/A	lb

Results

Result	Value	Unit
Net material weight	150	lb
Waste weight	7.5	lb
Planning weight	157.5	lb
Gross staging weight	157.5	lb
Counted rows	1	rows

Calculation details

Detail	Value	Unit
Calculation basis	Each row converts verified pounds per 1,000 feet to pounds per foot, then multiplies by length, material quantity, and parallel runs.	

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Weight boundary

Material and logistics planning only. Do not infer product weight from AWG alone or use this result for rigging, lifting, tray capacity, structural, or procurement approval.

Formulas

$$w_{ft} = \frac{w_{1000ft}}{1000}$$

$$W_{row} = w_{ft} L_{qr}$$

$$W_{waste} = W_{net} \frac{w_{\%}}{100}$$

$$W_{planning} = W_{net} + W_{waste}$$

$$W_{gross} = W_{planning} + W_{tare}$$

Warnings and limitations

Material and logistics planning estimate only. Use the exact product data for the selected cable or conductor, and obtain separate rigging, tray, structural, lifting, and procurement review.