

Conduit Body Fill Calculator

Estimates conduit-body fill from conductor area, conductor count, an entered splice or device allowance, and verified body capacity. It does not reproduce conduit-body tables.

Generated October 10, 2026

<https://www.elecatrix.com/wire-raceway-ampacity/conduit-body-fill-calculator/>

Inputs		
Input	Value	Unit
Area per conductor	0.35	sq in
Conductor count	3	count
Splice/device allowance	0.08	sq in
Conduit body capacity	3.5	sq in
Results		
Result	Value	Unit
Total conductor area	1.05	sq in
Required area	1.13	sq in
Fill percent	32.2857	%
Spare area	2.37	sq in
Status		
Status	Value	Unit
Capacity comparison	Within entered body capacity	
Calculation details		
Detail	Value	Unit
Calculation basis	Required area is entered conductor area multiplied by count, plus any entered splice or device allowance, compared against entered conduit body capacity.	
Selection boundary	Conduit body fill estimate only; verify conductor dimensions, body type, manufacturer marking, splice/device rules, listing instructions, and code requirements separately.	

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Formulas

Total conductor area = area per conductor x conductor count

Required area = total conductor area + splice/device allowance

Fill percent = (required area/conduit body capacity) x 100%

Spare area = conduit body capacity - required area

Warnings and limitations

This conduit body fill estimate depends on user-entered area and capacity values. It does not replace manufacturer markings, listing instructions, splice/device rules, or code compliance review.