

Conduit Parallel Run Calculator

Screen equal parallel conduit runs with explicit route length, spacing, diameter, count, and allowance inputs.

Generated October 10, 2026

<https://www.elecatrix.com/conduit-bending/conduit-parallel-run-calculator/>

Inputs

Input	Value	Unit
Number of parallel runs	3	runs
Length of each run	100	ft
Center-to-center spacing	2	in
Conduit outside diameter	1.5	in
Allowance per run	2	ft

Results

Result	Value	Unit
Total parallel route length	300	ft
Centerline spread	4	in
Outside-to-outside span	5.5	in
Total length with allowance	306	ft

Calculation details

Detail	Value	Unit
Geometry boundary	Estimate treats each run as equal and parallel; slope, bends, fittings, support, and routing changes are not inferred.	

Formulas

total parallel length = run length x run count

centerline spread = center-to-center spacing x (run count - 1)

outside-to-outside span = centerline spread + conduit outside diameter

total length with allowance = (run length + allowance per run) x run count

Warnings and limitations

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This is an equal-run material and layout screen. It does not determine bend alignment, support spacing, fill, ampacity, raceway separation, or installation approval.