

# Cable Runway Load-Span Table

Maximum load with minimal deflection is 132 lb/ft when the runway is supported every 5'.

**Load-Span Table, CPI Cable Runway**

Safety Factor	Span (ft)	4	5	6	7	8	9
1.5	Maximum Load (lb/ft)	206	132	92	67	52	41
	Deflection (in)	0.41	0.64	0.92	1.25	1.62	2.03
2.0	Maximum Load (lb/ft)	154	99	69	50	39	31
	Deflection (in)	0.31	0.48	0.68	0.93	1.21	1.531
	K factor	0.002	0.005	0.010	0.019	0.032	0.050

*CPI recommends supporting cable runway runs every 5 feet.*

To calculate deflection for loads lighter than maximum loads listed in table, multiply load for which deflection is desired by K factor listed in table for cable runway support span utilized.

Example: To calculate maximum deflection using a safety factor of 1.5 for a length of cable runway supported every 5' and loaded with 80 pounds per foot:

$$\text{Deflection} = (80) (0.005) = 0.40''$$

*NOTE: CPI 10250, 11252, 11275 and 14300 cable runway systems are listed under UL E138966 and tested to the requirements in the Standard for Safety for Metal Cable Tray Systems, NEMA VE 1-2009 and ANSI/NFPA 70.*

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