

## Product Image



## Ceiling Wire

### Straight Ceiling Wire

Ceiling Wire is a metal wire used for overhead support of acoustical and drywall ceilings, or to hang electrical fixtures. It can be installed with low velocity powder actuated tools in poured concrete deck.

### Pre-Tied Ceiling Wire with Clip

Pre-Tied Ceiling Wire is a metal wire that is used for the overhead support of acoustical and drywall ceilings, or to hang electrical fixtures. The pre-tied clip helps to reduce installation time and can be installed with low velocity powder actuated tools in poured concrete deck.



### Spec of Fasteners

- Manufactured from AISI 1060 Steel wire, heat-treated to a Rockwell C hardness of 52-55
- Mechanically zinc-plated to a minimum thickness of 0.0002 inch (0.005mm)
- The zinc plating conforms to ASTM B 695

## Performance Stats

### Pre-Tied Ceiling Wire w/ Clip (12 Gauge)

PN#	Shank Diameter	Min. Penetration	Install in Stone Aggregate Concrete Concrete Compressive Strength Allowable Load					
			2500PSI		4000PSI		6000PSI	
			Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
CWC6	0.145"	1-1/8"	145	230	180	240	175	245
CWC8	0.145"	1-1/8"	145	230	180	240	175	245
CWC10	0.145"	1-1/8"	145	230	180	240	175	245
CWC12	0.145"	1-1/8"	145	230	180	240	175	245

### Pre-Tied Ceiling Wire w/ Clip (12 Gauge)

PN#	Shank Diameter	Min. Penetration	Allowable Working Values Install in 3000 PSI Lightweight Concrete Allowable Load-Ultimate Load			
			3000PSI Lightweight with Metal			
			Lower Flute Tension (lbs)	Lower Flute Shear (lbs)	Upper Flute Tension (lbs)	Upper Flute Shear (lbs)
CWC10	0.145"	1-1/8"	146	255	169	229



## Pre-Tied Ceiling Wire w/ Clip (12 Gauge)

PN#	Twisting Loop Number
CWC6	≥ 4
CWC8	≥ 4
CWC10	≥ 4
CWC12	≥ 4

1. All wires are conforming to ASTM A641-92
2. The above length is before pre-tied

## Straight Ceiling Wire (12 Gauge)

PN#	Diameter (in)	Wire Length (in)	Tensile Range	Zinc Thickness	Elongation	Yield Stress
CWS6	0.105"	6'	75 ksi max	≥ 25oz/ft <sup>2</sup>	26%	≥ 59 ksi
CWS8	0.105"	8'	75 ksi max	≥ 25oz/ft <sup>2</sup>	26%	≥ 59 ksi
CWS10	0.105"	10'	75 ksi max	≥ 25oz/ft <sup>2</sup>	26%	≥ 59 ksi
CWS12	0.105"	12'	75 ksi max	≥ 25oz/ft <sup>2</sup>	26%	≥ 59 ksi

### Notes:

- Data in accordance with testing data.
- Meets AC70 and ASTM E 1190-95 acceptance criteria.
- For SI: 1 inch = 25.4 mm, 1 psi = 6.89kPa, 1 lbf = 4.45N.
- The allowable tension values are for the angle clip fastener assembly only. Connected materials shall be investigated separately in accordance with accepted design criteria.
- The angle clips are produced from 0.075-inch-thick (1.9 mm) zinc-plated steel having a minimum of 0.0002-inch-thick (0.005 mm) plating.
- Various job sites may require testing to determine job site values.
- Safety: The fasteners shall not be installed until the concrete has reached the designated minimum compressive strength.
- Minimum concrete thickness is three times the fastener embedment into the concrete.
- Other testing data can be obtained online or direct from L.H. Dottie.