

## Tinsel Conductor

### Product Application

Tinsel wire is a form of electrical wire used when maximum mechanical flexibility is desired. It is commonly found in cords used for telephones cables as, Line Cords, Straight Cords, Extension Cords, Coil Cord, Curl Cord, Coiled Cord ,especially the handset cords. Because of its extreme flexibility, it is very resistant to failing as a result of metal fatigue. In this way it is different than ordinary stranded wire or, especially, solid wire.



### Cord Making

#### Materials Used in Manufacturing of Cords:

The following items constitute a telephone instrument cord. The final requirements of a cable, determine the items used.

#### Conductor:

The typical conductor used for a telephone instrument cord is called tinsel. In some cases annealed bare copper is also used. Tinsel is a special type of Drawn Copper.

A 0.079 mm Copper strand is flattened which is called a ribbon.

These ribbons are wound round a yarn to form a core.

Many cores are wound to form a strand.

Tinsel types used in telephone cords are Plain Annealed Bare Copper or Cadmium copper

### Advantages

- Very Thin.
- Flexible.
- Crimped connections are commonly used.
- The connector has a series of barbs that pierce the insulation that covers the tinsel wire.

## Types of Tinsel Conductors

The various types of tinsel used are:

1. 4x1 tinsel
  2. 4x2 tinsel
  3. 7x1 tinsel
  4. 7x2 tinsel
- etc.



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## Technique performance:

Tinsel wire is made by wrapping several strands of thin copper and cadmium copper foil around a textile core. Because the foil is very thin, it is extremely flexible.

Crimped connections are commonly used.

Usually, the connector has a series of barbs that pierce the insulation that covers the tinsel wire, allowing the connection to be made without any need to strip the insulation for the conductor.

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