

**WAC 296-17A-5108 Classification 5108.**

**5108-55 Cable or wire rope: Manufacturing**

**Applies to:**

- Businesses engaged in wire drawing including wire rope or cable manufacturing from iron or steel;
- Businesses engaged in stranding iron or steel wire rope or cable; and
- Businesses engaged in manufacturing insulated or covered electrical cable.

**Products manufactured include, but are not limited to:**

- Baling wire;
- Barbed wire;
- Cable;
- Covered electrical cable;
- Galvanized wire;
- Insulated wire;
- Nails;
- Spikes;
- Wire rope.

**Materials used include, but are not limited to:**

- Carbon steel;
- Fiber or polypropylene core;
- Insulation material such as cambric, cotton thread, enamel, lacquer, nylon, paper, plastic, and rubber;
- Iron;
- Protective coverings such as cotton braid, lead sheathing, metallic armor, or zinc;
- Shipping reels;
- Stainless steel.

**Work processes include, but are not limited to:**

• Wire drawing - The process involves the forming of metal on a swage block into a shape that will eventually be drawn through a series of dies to reduce it in size. Some wire may be heat-treated to allow for continual drawing. Secondary and final drawing machines with progressively smaller dies are used to reduce the wire to the desired fineness. Incidental galvanizing is considered normal to iron or steel wire when performed as a subsequent treatment of drawn wire.

• Stranding or braiding - Wire ropes are mechanically wound together to form multiwire strands which are then wound helically around a metal or fiber core to form wire rope. The finished rope or cable is pulled through a compression die, measured by power driven drums and stored on shipping reels.

• Insulating - Commonly used insulation materials are enamel or lacquer, rubber, plastic, paper, cambric, and cotton thread. Enamel or nylon insulation is applied by running the wire through heated tanks of either mix. The wire is then dried in ovens and the cycle is repeated several times.

• Covering - These protective coverings are generally cotton braid, metallic armor, or lead sheathing.

[Statutory Authority: RCW 51.04.020 and 51.16.035. WSR 23-23-155, § 296-17A-5108, filed 11/21/23, effective 1/1/24. WSR 07-01-014, recodified as § 296-17A-5108, filed 12/8/06, effective 12/8/06. Statutory Authority: RCW 51.16.035. WSR 98-18-042, § 296-17-668, filed 8/28/98,

effective 10/1/98; WSR 85-24-032 (Order 85-33), § 296-17-668, filed 11/27/85, effective 1/1/86; WSR 82-24-047 (Order 82-38), § 296-17-668, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-668, filed 11/9/73, effective 1/1/74.]