Hot-Dip Galvanized vs Electro-Galvanized

Fehr Bros galvanized cable and wire are plated with a hot-dip galvanized (HDG) finish. This finish is achieved by dipping the individual wires that make up the cable, into a high temperature, molten zinc bath. Once cooled these wires are formed in a helical pattern to achieve the final cable configuration. This provides a finished coating that is 5-10 times the thickness found on zinc plated cables and wire rope. HDG also provides increased strength and resistance to abrasion. In zinc plating (EG) the cable is submersed in a zinc/saline bath and electricity is used to transfer zinc to the cable surface.

Hot-dip galvanizing provides 3 levels of protection to the steel. The first is barrier protection. The zinc isolates the steel from the environment. The second is cathodic protection. This refers to how the molecules of zinc react to the environment and extend the protection. The third is zinc patina, where the byproducts of zinc corrosion provide additional protection to the base metal.