

ORDINANCE NO. 684

AN ORDINANCE OF THE CITY OF MESQUITE, TEXAS AMENDING CHAPTER 7, ARTICLE I, SECTION 7-2 OF THE MESQUITE CITY CODE OF 1960 ESTABLISHING STANDARDS AND REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL CONDUCTORS, PROVIDING A SEVERABILITY CLAUSE, PROVIDING FOR A PENALTY NOT TO EXCEED TWO HUNDRED (\$200.00) DOLLARS FOR EACH OFFENSE, AND DECLARING AN EMERGENCY.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1. That Chapter 7, Article I, Section 7-2 of the Mesquite City Code of 1960 be and the same is hereby amended so as to hereinafter read as follows, to-wit:

"SECTION 7-2. Requirements for installing electrical conductors.

All conductors used to carry electric current which are installed within the city shall be of copper or other suitable and approved material such as gold and silver. Aluminum conductors not smaller than #6 may be used, provided that the proper precaution is taken to prevent unsafe installations as a result of oxide films, thermal expansion, electrolytic action, galvanic action and plastic flow, as well as normal precaution required for any other type of conductor. All conductors used on aluminum conductors shall have the same coefficient of expansion as the conductors and shall be of the circumferential pressure type so designed that uniform and equal pressure will be applied to the periphery of each separate strand of the conductor in such a manner as to effectively remove all voids between such strands, minimize the adverse effect of oxide films between such strands and effectively lock the conductor into a solid mass within the conductor to prevent creep, plastic flow or extrusion of the metal. Aluminum connectors shall be designed for the exact conductor size for which they are used. Connectors for multiple size conductors shall not be used. Set-screw type connectors or variations of the set-screw type shall not be used. Multiple bolt clamp type connectors shall not be used unless designed for a single size and unless it has not less than a two to one ratio of cable pressure to bolt pressure. Connectors used to connect aluminum conductors to copper conductors shall be especially designed for the purpose and so installed that when the joint is complete the aluminum will be and remain

above the copper. Aluminum conductors shall not be soldered. Bus connections shall be covered with an oxide inhibitor grease after sanding and connected with aluminum bolts with two washers on each side of each bolt, one designed to prevent the bolt from tearing the bus and the other designed to prevent loosening of the joint."

That should any word, phrase, sentence, paragraph or section of this Ordinance be held to be void and unconstitutional, the remaining provisions of this Ordinance and of the Mesquite City Code of 1960 shall remain in full force and effect the same as if no portion of this Ordinance had been held to be void and unenforceable.

SECTION 2. Should any person, firm or corporation violate any of the provisions of this Ordinance the same shall be deemed guilty of a misdemeanor and shall be subject to a penalty not to exceed Two Hundred (\$200.00) Dollars for each offense.

SECTION 3. The fact that the present requirements for the installation of electrical conductors are inadequate creates an urgency and an emergency and in the preservation of the public health, safety and welfare requires that this Ordinance shall take effect immediately from and after its passage as the law and Charter in such cases provides.

DULY PASSED by the City Council of the City of Mesquite, Texas, on the 19 day of June, 1967.

APPROVED:

George Boyce  
MAYOR

DULY ENROLLED:

Norm G. McLaughly  
CITY SECRETARY

APPROVED AS TO FORM:

B. Robert Baker  
ATTORNEY