

SECTION 16720

TRAFFIC SIGNAL CABLE

PART 1 GENERAL

1.01 SECTION INCLUDES

This specification describes minimum requirements for traffic signal control cable and/or wire used in City of Houston traffic signal installations. The cables shall conform to specification requirements of the International Municipal Signal Association (IMSA) for the specific type cables included in the bid form, and THW wire shall conform to industry standards. These specifications and standards are included in this specification by reference. An informational copy of IMSA specifications is available for inspection at the Traffic Operations Center, 2200 Patterson, between the hours of 8:00 AM and 3:00 PM, Monday through Friday, except holidays.

1.02 SILENCE OF SPECIFICATIONS

The apparent silence of these specifications as to any detail, or the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and that only material and workmanship of the finest quality are to be used. All interpretations of these specifications shall be made on the basis of this statement. The bidder shall be an established supplier of the items bid.

1.03 UNIT PRICES

A. Measurement

This item will be measured by the linear foot of traffic signal cables, as per the various sizes and types shown on the drawings. Measurement will not be made for cable inside signal heads and controllers and cable coiled pull boxes, in pole bases and coiled on span wires.

B. Payment

The work performed and materials furnished in accordance with this item and measured as provided under "Measurement" will be paid for at the unit price bid for "Traffic Signal Cables" of the various types and sized specified. This price shall be full compensation for furnishing and installing all materials, and for all, tools, equipment and incidentals necessary to complete the work.

PART 2 PRODUCTS

2.01 MATERIALS

The items furnished shall be new, unused of the latest product in production to commercial trade, and shall be of the highest quality as to materials used and workmanship. Manufacturer furnishing these items shall be experienced in design and construction of such items and shall furnish evidence of having supplied similar items which have been in successful operation. The bidder shall be an established supplier of the items bid.

2.02 INSULATION

Insulation compound and thickness for each conductor shall conform to the specification requirements as specified for each item of the bid form.

2.03 JACKET

Jacket compound and thickness for multi-conductor cable shall conform to the specification requirements as specified for each item of the bid form.

2.04 VOLTAGE RATING

All cables and/or wire furnished shall be rated at 600 Volts.

2.05 CONDUCTORS

Copper used to form the conductors shall be soft or annealed copper and shall be formed as solid or stranded conductor(s) as specified for each item of the bid form.

2.06 CONDUCTOR IDENTIFICATION AND CABLE MARKER

Each conductor shall be identified by color-coding conforming with specification requirements specified for each item of the bid form. Each cable shall be identified at maximum 2-foot intervals with manufacturers name and year of manufacture.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Test and Test Methods

All cables and/or wires shall be sampled and tested at the factory to determine their compliance with specification requirements as specified for each item of the bid form.

END OF SECTION