

ITEM 670.2199--25 - EXPANSION FITTING WITH BONDING STRAP

1. DESCRIPTION:

- 1.01 Under this item the Contractor shall furnish and install conduit expansion fittings at each joint where conduits cross structure expansion joints to allow for expansion and contraction of the conduit relative to the structure. The conduits entering and leaving the expansion fitting shall be bonded across the fitting with an accompanying bonding strap sized in accordance with manufacturer's recommendations. .

2. MATERIALS:

- 2.01 The size of the expansion fittings shall be as indicated on the contract plans.
- 2.02 Expansion fittings shall be of weather tight construction with insulator bushing on end of movable conduit. Factory-formed fiberglass/copper wire ring, lubricated and graphited throughout for easy sliding of the conduit in expansion and contraction shall be provided.
- 2.03 Bonding strap and clamps for electrical grounding continuity outdoors as required by NEC with the strap of sufficient length to allow for full expansion shall be provided.
- 2.04 End fittings shall be Feraloy (TM) iron alloy with the body made of steel conduit.
- 2.05 Equipment that the Contractor intends to use for the installation of the conduit expansion fittings shall be submitted to the Engineer-in-Charge for approval before any work is started.
- 2.06 All electrical equipment shall conform to UL and NEMA requirements.

3. CONSTRUCTION DETAILS:

- 3.01 Expansion fittings shall be installed at all expansion joints.
- 3.02 Expansion fittings shall be installed per manufacturer's recommendations.

4. METHOD OF MEASUREMENT:

- 4.01 The quantity to be paid for under this item will be the number of complete expansion fittings installed.

5. BASIS OF PAYMENT:

- 5.01 The unit price bid shall cover the cost of installing the expansion fittings including electrical components, hardware, incidentals, labor, equipment and all other materials necessary to complete the work.