

I. MATERIALS

THE EXPANSION JOINT SHALL BE COMPOSED OF A GALVANIZED STEEL BODY, THREADED STEEL END FITTINGS, BUSHING INSULATOR, GLAND NUT, A COPPER BRAID PACKING, AND BONDING STRAP AND CLAMPS. BODY SHALL BE OF A SIZE LARGER THAN THE CONDUIT RUN IN WHICH IT IS USED, AND HAVE A REDUCING FITTING AND A GLAND FITTING ON THE ENDS.

COPPER BRAID RING SHALL BE LUBRICATED AND GRAPHITIZED THROUGHOUT, FOR EASY SLIDING OF THE CONDUIT DURING EXPANSION AND CONTRACTION.

BONDING STRAP AND CLAMPS SHALL BE PROVIDED FOR GROUNDING CONTINUITY AS REQUIRED BY N.E.C. STRAP SHALL BE OF SUFFICIENT LENGTH TO ALLOW FULL EXPANSION.

THE EXPANSION JOINT SHALL BE OF THE SIZE SPECIFIED AND ALLOW FOR A MINIMUM OF 0.500” MOVEMENT.

EXPANSION JOINTS SHALL BE UL STANDARD 514 APPROVED AS MANUFACTURED BY CROUSE-HINDS XJ EXPANSION JOINTS OR APPROVED EQUAL.

II. INSTALLATION

EXPANSION JOINTS SHALL BE ORIGINALLY INSTALLED IN LONG CONDUIT RUNS IN SUCH A MANNER AS TO ALLOW EQUALIZED MOVEMENT FOR BOTH EXPANSION IN HOT WEATHER AND CONTRACTION IN COLD WEATHER. THEREFORE THE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE CONSIDERED IN THE NOMINAL POSITIONING OF THE JOINT IN THE CONDUIT AND ALLOWANCE FOR MOVEMENT SHALL FAVOR THE OPPOSITE SEASON.

FITTINGS AND STRAP CLAMPS SHALL BE SECURELY TIGHTENED AND SUFFICIENT LENGTH SHALL BE ALLOWED FOR TEMPERATURE MOVEMENT.

III. BASIS OF PAYMENT

ITEM	UNIT	DESCRIPTION
MIS-708	EACH	EXPANSION JOINT, RIGID CONDUIT

MIS-708	DEPARTMENT OF PUBLIC UTILITIES - DIVISION OF POWER CITY OF COLUMBUS, OHIO		
	EXPANSION JOINT, RIGID CONDUIT		
	DRAWN BY: SAW	DATE: 7/31/2022	
	APPROVED:		
	SCALE: NONE	SHEET: 1 OF 1	708