

I. MATERIALS

- A. THE CABLE SHALL BE SPECIFICATION FAA-L-824 TYPE C, SINGLE CONDUCTOR AND SUITABLE FOR OVERHEAD OR DIRECT BURIAL INSTALLATION.

THE CABLE SHALL CONSIST OF NO. 4 AWG SOFT ANNEALED 7 STRAND BARE COPPER CONDUCTOR.

THE OUTSIDE DIAMETER OF THE CABLE SHALL BE NO LESS THAN 0.445 INCHES.

THE CABLE SHALL BE 5KV # 4 AWG-PRYSMIAN GROUP PART # 389181-06 / 20265645, CME #AIRPTFAA42LPYK77 MT50 CABLE, NEHRING XLP INSULATED, OR APPROVED EQUAL. IDENTIFICATION OF CONDUCTORS SHALL BE ACCOMPLISHED BY LONGITUDINALLY COLOR STRIPING BLACK CONDUCTORS. NEUTRAL CABLE SHALL BE IDENTIFIED WITH WHITE STRIPE. DATE OF MANUFACTURE SHALL BE INCLUDED ON ALL CABLE.

- B. THE INSULATION SHALL BE RATED AT 90 DEGREES CELSIUS CONTINUOUS OPERATION, 130 DEGREES CELSIUS EMERGENCY AND 250 DEGREES CELSIUS SHORT CIRCUIT.

THE INSULATION SHALL NOT BE LESS THAN 0.110 INCHES OF LIGHT AND HEAT STABILIZED CHEMICALLY CROSS-LINKED POLYETHYLENE AND SHALL MEET ICEA S-96-659 SPECIFICATIONS FOR CABLE VOLTAGES 5000 VOLTS. THE MINIMUM AT POINT WALL THICKNESS SHALL NOT BE LESS THAN 0.099 INCHES

- C. THE ICEA (2 CABLES PER CONDUIT, 40 DEGREES CELSIUS AMBIENT, 90 DEGREES CELSIUS CONDUCTOR TEMPERATURE) AMPACITY SHALL NOT BE LESS THAN 107 AMPERES.

II. INSTALLATION

- A. THE CABLE SHALL BE UNREELED FROM ITS REEL, NOT ALLOWING SAME TO DRAG OVER PAVEMENTS OR SIDEWALKS AND CAREFULLY PULLED INTO DUCTS WITHOUT DAMAGING THE INSULATION. INSTALLATION OF CABLE CAN ONLY BE MADE UNDER THE SUPERVISION AND INSPECTION OF AN INSPECTING ENGINEER. NO SPLICES WILL BE PERMITTED TO BE PULLED INTO THE DUCTS.

THE CONTRACTOR SHALL, IN THE PRESENCE OF THE INSPECTING ENGINEER, TEST ALL CABLES IN PLACE TO SEE THAT THE CIRCUIT IS FREE OF

SHORTS AND GROUNDS AND IS PROPERLY CONNECTED. A MINIMUM OF FIVE (5) FEET OF SLACK CABLE SHALL BE REQUIRED PER POLE AND PER PULL BOX, FOR EACH CONDUCTOR. NEUTRAL CABLE SHALL BE IDENTIFIED WITH WHITE STRIPE.

- B. IN-LINE SPLICES SHALL NOT BE MADE BETWEEN POLES.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS TO COMPLETE THE STREET LIGHTING CIRCUIT.
- D. SPLICES AND CONNECTIONS SHALL ONLY BE MADE IN POLE BASES OR PULL BOXES (SEE MIS-500).
- E. SPLICES IN PULL BOX SHALL BE MADE WITH COMPRESSION CONNECTORS AND 3M SCOTCHCAST RESIN ELECTRICAL SPLICING KITS NO. 82-A1 FOR 2-WAY SPLICES, 82-B1 FOR 3-WAY SPLICES, OR AN APPROVED EQUAL.

III. BASIS OF PAYMENT

ITEM	UNIT	DESCRIPTION
MIS-403	CIRCUIT FOOT	UNDERGROUND CIRCUIT, 2 WIRE

MIS-403	DEPARTMENT OF PUBLIC UTILITIES - DIVISION OF POWER CITY OF COLUMBUS, OHIO		
	UNDERGROUND CIRCUIT, 2 WIRE		
	DRAWN BY: SAW	DATE: 1/1/24	
	SCALE: NONE	SHEET: 1 OF 1	403