

BURIED PLANT
BURIED WIRE DESCRIPTION

1. GENERAL

- 1.01 This practice provides a description of the service wires used in buried distribution plant.
2. **BURIED SERVICE WIRE (QUAD BURIED DISTRIBUTION SERVICE WIRE)**
- 2.01 B service wire is a 2-pair wire intended for use as buried drop connections to subscribers' premises. This wire can be buried directly in the ground without added mechanical protection.
- 2.02 B service wire, illustrated in Figure 1, consists of four 19 AWG solid copper conductors, individually insulated with high density, colored polyethylene.

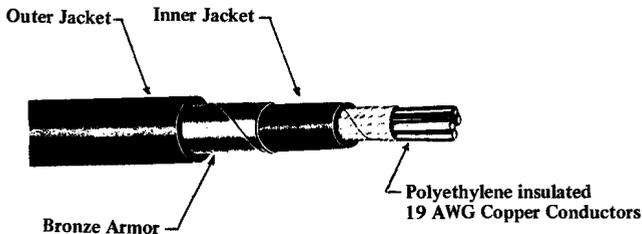


FIGURE 1

- 2.03 The conductors are stranded to form a star quad. The inner jacket is composed of high molecular, black polyethylene covered by spirally applied bronze tape armor.
- 2.04 The outer jacket is composed of high density polyethylene and is black in color. The mutual capacitance of the B service wire is $.083 \mu$ per mile. The resistance of B service wire is 92Ω per loop mile.
- 2.05 B service wire is available on reels containing lengths totaling 5,000 feet and 10,000 feet.
- 2.06 The recommended depths for placing B service wire are specified in CTSP 490-500-426.
3. **D UNDERGROUND WIRE (PAIRED BURIED DISTRIBUTION SERVICE WIRE)**
- 3.01 D underground wire, illustrated in Figure 2, is a 1-pair wire and is for use in buried distribution of telephone circuits. This wire can be buried directly in the ground without added mechanical protection.

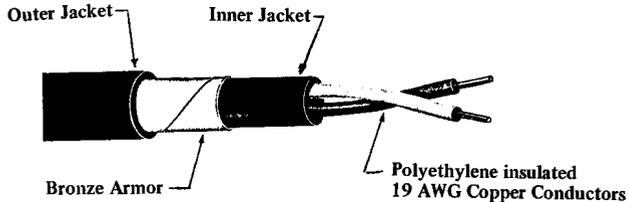


FIGURE 2

- 3.02 D underground wire consists of two parallel 19 AWG solid copper conductors individually insulated with high density, colored (Blue-white) polyethylene.
- 3.03 The conductors are twisted and covered with an inner jacket of high molecular, black polyethylene. The inner jacket is covered with spirally applied bronze tape armor.
- 3.04 The outer jacket is composed of high density polyethylene and is black in color. The mutual capacitance of the D underground wire is $.083\mu$ per mile. The resistance of D underground wire is 92Ω per loop mile.
- 3.05 D underground wire is available on reels containing lengths totaling 5,000 feet and 10,000 feet.