

**EXP:02**

## **Study of Network cables**

### **Aim**

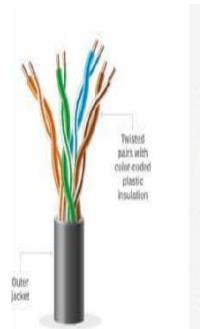
To understand the different types of network cables and to prepare a cross-wired cable and a straight-through cable using a crimping tool.

### **Algorithm / Procedure**

1. **Identify** the different types of network cables (e.g., Coaxial, Twisted Pair, Fiber Optic) and their applications.
2. **Understand** the T568A and T568B wiring standards for twisted-pair cables.
3. **Prepare** a straight-through cable by terminating both ends with the same standard (e.g., T568B to T568B).
4. **Prepare** a cross-wired cable by terminating one end with T568A and the other with T568B.
5. **Test** the prepared cables using a cable tester to ensure proper connectivity.

### **OUTPUT:**

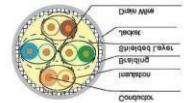
#### 1. UTP



#### 2. STP



### 3. SFTP



### 4. COAXIAL CABLE



### 5. OPTICAL FIBER CABLE



### **Result:**

The different types of network cables were studied, and both straight-through and cross-wired cables were successfully prepared and tested according to the T568 standards.