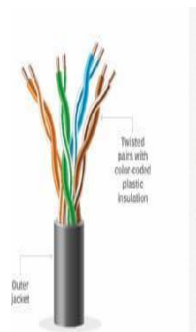| **EXP:02**	**Study of Network cables**

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.
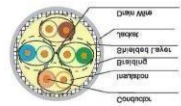
OUTPUT:

1. UTP

2. STP

3.SSTP

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.