Physical Layer Implementation

- **Format used in the interfaces: [Value1] Base [Value 2]**

  Value1 = Bit rate for the transmission : Ex: 100 $\implies$ 100 Mb/s

  Base = *Baseband Mode*: Base band transmission (no modulation)

  Value 2: Type of cable (T: *Twisted Pair*, F, X, R: Optical Fibre)

- **Examples:**

  10 Mbit/s Ethernet

  > 10BaseT: Uses UTP twisted pairs of category 3 ou 5; max distance = 100 m
  > 10Base F: Uses multimodal optical fibre

  100 Mbit/s Ethernet (PCS: 4B5B)

  > 100BaseT: Uses UTP twisted pairs of category 5; max distance = 100 m
  > 100Base FX: Uses multimode optical fibre (62.5 μm); max distance = 2000 m

  Gigabit Ethernet (PCS: 8B10B)

  > 1000BaseT: Uses UTP twisted pairs cat. 5e; max distance = 100 m
  > 1000Base SX: Uses multimode optical fibre (62.5 μm); max distance = 275 m
  > 1000Base Fx; Uses single mode optical fibre; max distance = 5000 m