Line Coding schemes and their characteristics

Scheme	Characteristics
Unipolar	• 0 ==> 0 V • 1 ==> +ve V
NRZ-L	• 0 ==> +ve V • 1 ==> –ve V
NRZ-I	• Starts at +ve V • 0 ==> no change in voltage • 1 ==> change in voltage
Manchester	• 0 ==> ‾|__ • 1 ==> __|‾
Differential Manchester	• Starts at +ve V • 0 ==> shifting at the beginning but no change in voltage • 1 ==> shifting in the middle and change in voltage
AMI	• Starts at 0 V • 0 ==> 0 V • 1 ==> change in voltage (either +ve or –ve) • First change must be +ve
MLT-3	• Starts at 0 V • 0 ==> no change in voltage • 1 ==> change in voltage (transition: +ve → 0 → –ve)