

Nonreturn to Zero-Level (NRZ-L): negative voltage for 1, positive for 0.

Nonreturn to Zero Inverted (NRZI): transition at beginning is a 1, no transition for 0.

Bipolar-AMI: Use 3 voltage levels, 0: no signal, 1: alternating positive and negative pulses.

Pseudoternary: like Bipolar, but 1: no signal, 0: alternating pulses.

Manchester: always a mid-bit transition, 1: low to high, 0: high to low. May require transition at start of bit period.

Differential Manchester: always a mid-bit transition, 0: transition at start, 1: no transition at start.

B8ZS: Bipolar-AMI with 8 zero substitution, replace 8 0's with 000+-0-+ or 000+-0+- to cause two code violations.

HDB3: Bipolar-AMI but replace last of 4 zeros with a code violation.

Replace the first zero with a valid pulse if even number of pulses since last substitution.

4B5B: 4 data bits replaced with 5-bit code using NRZI. No code has more than 1 leading 0 or 2 trailing 0's.

