

MODULATING SIGNAL

Orthogonal Frequency Division Multiplexing (OFDM), with data rates (excluding error coding) between 6 and 54 Mb/s. Waveform consists of 52 sub-carriers, with 4 pilot tones. Interleaved convolutional coding is provided, with rates of $\frac{1}{2}$, $\frac{2}{3}$ or $\frac{3}{4}$ depending on data rate. Underlying tone modulations consist of:

- BPSK (used for 6, 9 Mb/s operation)
- QPSK (used for 12, 18 Mb/s operation)
- 16-QAM (used for 24, 36 Mb/s operation)
- 64-QAM (used for 48, 54 Mb/s operation)