

Combiner Systems Example

Combiner system for mobile communication coverage in a large road tunnel for public authorities, emergency services, professional mobile radio, FM radio and mobile telephones

Frequency ranges: 68 – 88 MHz,
88 – 108 MHz, 450 – 470 MHz

For combining 8 FM transmitters, whose signals are amplified from 10 mW to 100 W, with further transceiver units of other frequency bands. Distribution to 12 feeder points within the tunnels.

- MBC = Multi-band combiner
- DS = Decoupled power splitter
- 3 C = 3-dB coupler
- D = Duplexer
- BP = Band-pass filter
- SP = S-P filter
- ↑ = Isolator
- △ = Power amplifier
- Tx/Rx = Transceiver unit
- Tx = Transmitter unit
- Rx = Receiver unit

