

Leaky Feeder System



PBE SAFETY & PRODUCTIVITY SOLUTIONS

PBE's Leaky Feeder System provides a user friendly and reliable underground communication system



Model HEC-4

WHY LEAKY FEEDER?

Radio waves travel by line-of-sight, making radio communications underground difficult. PBE's Leaky Feeder solves this problem by forming an antenna that is installed throughout the mine, providing complete radio communications coverage. Leaky Feeder cable is strong and flexible, so there is no problem installing the network around corners and turns.

HOW LEAKY FEEDER WORKS

PBE's Leaky Feeder cable is a type of coaxial cable that 'leaks' radio signals throughout the mine. Amplifiers are installed along the Leaky Feeder cable to boost the signal and compensate for cable loss. Branch units can be used to send lengths of cable down different pathways.

PBE's Leaky Feeder System has the ability to scale and grow with a changing environment in any mine or tunnel. Each Leaky Feeder System will be tailored to specific site requirements to provide the best radio coverage.

COMMUNICATIONS RACK

The Communications Rack is normally located above ground at the start of a Leaky Feeder System. Its purpose is to combine base radio signals and apply DC power to the Leaky Feeder cable.

THE COMMUNICATIONS RACK NORMALLY CONTAINS

- Head End Combiner
- Up to 32 digital or 16 analogue radio repeaters
- Power supply with optional battery backup

FEATURES

- Compatible with voice and data communications
- Compatible with FM based digital and analogue radios
- Local and remote diagnostics
- 12 to 96 hour battery backup
- Automatic gain control
- Saddle and clamp connections
- Minimum IP55/NEMA4X rated enclosure
- VHF and UHF



Model HEC-4
(rear view)

OPTIONS INCLUDE:

- Digital voice recording
- Microwave/ethernet site-linking
- Optional emergency channel override
- RF multi-coupling and antenna combine