When an existing leaky feeder connection is cut, or loses power, the DRUM™ Repeater units use the metallic infrastructure of the mine as a back-haul to communicate with the surface. DRUM™ Repeater units have a typical UHF range of 3000 ft diameter.
Survivable Leaky Feeder

DRUM™ Communication System Use Case Example #2

DRUM™ Repeater units can be used in conjunction with un-powered leaky feeder cable to extend coverage in 1 mile increments. If a connection is cut, the DRUM™ Repeaters can still use the metallic infrastructure to communicate with the surface.


CONFIDENTIALITY NOTICE: This presentation is for the sole use of the intended recipient(s) and may contain information which is confidential to and/or privileged in favor of Kutta Radios, Inc. Any review, use, reproduction, disclosure or distribution of this presentation is prohibited without prior written approval from an authorized Kutta Radios, Inc. representative.
Leaky Feeder Extension
DRUM™ Communication System Use Case Example #3

DRUM™ Repeater units can be used to extend leaky feeders by using metallic infrastructure/wire core lines. Coverage can be extended up to +4 miles when proper conductors are present.

Surface

Standard Leaky Feeder

Metallc Infrastructure
Wire Core Line

Miner with UHF/VHF

MILES
+4

3000 ft
The DRUM™ Portable & Repeater units can be used together to allow communication in bleeders and hard to reach areas. DRUM™ Portable units allow for mobile communication in the area, and relay messages to Repeater units on the surface using the metallic infrastructure.
DRUM™ units can allow Mine Rescue teams on the surface and within the mine to communicate with trapped workers. DRUM™ units can provide communications through obstructions by using the mines’ metallic infrastructure.
DRUM™ units can allow workers on the surface to communicate with trapped workers within rescue chambers. DRUM™ units can provide communications through obstructions by using the mines’ metallic infrastructure.