

MCA HEAD END

- UP TO 64 VOICE/DATA CHANNELS
- UP TO 16 VIDEO CHANNELS
- FOUR LEAKY FEEDER OUTPUT PORTS
- FRONT PANEL DIAGNOSTIC METERS
- HIGH NOISE IMMUNITY
- 19 INCH RACK MOUNT



DESCRIPTION

MCA1000 series Leaky Feeder Head End unit is the nucleus, or core of the MineCom Leaky Feeder system. Its purpose is to combine the RF outputs of up to 64 low powered Transmitters AND the RF inputs of up to 64 VHF Receivers AND produce up to 16 PAL video channels with a single 50ohm output, 19 inch 3RU rack unit, provides the necessary interface between the base radios, video demodulators/monitors ect. and the leaky feeder cable. The Head End combines the RF inputs and outputs of up to 64 Transmitters and Receivers, into single output port. The output port is turn coupled to a 4 way splitter that converts the system impedance from 50ohm to 75ohm.

Up to four 75ohm Leaky Feeder coax cables can be connected to the splitter unit inside the Head End. The Head End is a passive device (no active components) however a DC power source is required to 'down line' power the in-line Bi-directional amplifiers.

The standard MCA1000 Head End is capable of providing up to 8 full duplex channels. To expand they system, simply add on an 8 channel expansion unit, increasing the number of usable channels to 16. Additional channel expansion units can be used to increase the useable channels to 24, 32 or 64 channel respectively.

SPECIFICATIONS

Input Voltage	12, 23, 48 volt DC versions
Input Current	3 amps @ 12VDC
Frequency	VHF & UHF
Max Input RF Power	2 watts RF Max
Port to Port Isolation	-20dB minimum
Bandwidth	2.5Mhz TX and 2.5Mhz RX
Number of channels	8 standard; Expandable to 16, 24 & 32 channels
Input Impedance	50 ohms
Output Impedance to Leaky Feeder	75 ohms(Optional 50 ohms)

