

The Last Mile

OR MAYBE THE LAST 500 FEET ?

Association of Communications
Engineers May 3,2010

WIRED ----- WIRELESS

METALIC

GLASS

RADIO

SATELLITE

METALIC

COPPER PAIRED CABLE

COAXIAL CABLE

POWER LINES

GLASS

PON

ETHERNET

PAIRED COPPER CABLE

EXISTING

LIMITED BANDWIDTH

HIGH MAINTENANCE

TECHNOLOGY

FIBER CABLE

INSTALLATION COST
ELECTRONICS COST
HIGH BANDWIDTH

COPPER TECHNOLOGY

DSL

VDSL

BANDING

INDOOR VS OUTDOOR ONT'S

POWER OPTIONS

CUSTOMER REACTION

COST

Direct Feed vs. Node Design

Fiber Size

Node Cost

Ribbon vs. Loose Tube

Above Ground vs. Hand hole