

HIGH CAPACITY — 1.544 Mbps SERVICE

A. High Capacity — 1.544 Mbps Service1. Basic Channel Description

High Capacity channels provide simultaneous two-way transmission of serial, bipolar, return to zero isochronous digital signals. The transmission speed of a High Capacity Channel is 1.544 Megabits Per Second (Mbps). A pulse density restriction, plus a constraint on customer-provided framing are part of the format constraint on High Capacity Channels. The format constraints permit the Telephone Company the use of every 193rd bit position for future use; therefore, the effective throughput rate available to the customer is 1.536 Mbps.

High Capacity Channels are provided between Customer premises, between a Customer premises and a Telephone Company hub or between serving wire centers. Channels are furnished for use with customer-provided terminal equipment and communication systems. They are pipeline channels that have applications such as voice and data depending upon the Customer's choice of terminal equipment

a. Availability of Service

- (1) High Capacity Channels require special equipment and will be provided only from those wire centers equipped for digital transmission. The wire centers equipped to furnish 1.544 Mbps High Capacity Channel service have been or will be designated by the Company. A service inquiry must be made to determine availability of service.
- (2) When the components required to provide service are not available, and when mutually agreeable to the Customer and Telephone Company, special construction may be undertaken to provide the required service. In such cases, charges based on costs apply.

b. Channel Service Unit Functionality

Channel Service Unit Functionality is required at all times at each station on a Customer's premises to perform such functions as proper termination of the service, amplification, signal shaping and remote loopback testing. The Customer must provide this functionality and it must comply with the requirements of the Bell Technical Reference Publication 62411 and Section 31 of Bell Telephone Company of Pennsylvania Tariff PA P.U.C. No. 1

c. Connections

Terminal equipment to be provided by the Customer must meet the following interface requirements:

Data signals, including timing and control where provided, exchanged at the interface between the Customer's equipment and the High Capacity Local Channel must meet the signal and format constraints listed below.

HIGH CAPACITY — 1.544 Mbps SERVICE

A. High Capacity — 1.544 Mbps Service (Cont'd)

1. Basic Channel Description (Cont'd)

c. Connections (Cont'd)

- (1) Data Rate: 1.544 Mbps +/- 75 bps.
- (2) Consecutive zeros: no more than 15 consecutive zeros may be generated.
- (3) Pulse Density: At least 3 pulses in any 24-bit interval.

Electrical, mechanical and functional specifications for these interfaces are available from the Telephone Company upon request.

The Telephone Company's responsibility ends at the Rate Demarcation Point and does not include maintaining operational capability of customer-provided equipment. Customers must provide and maintain terminal equipment at their expense.

- (4) Mileage Measurements: Rates for interexchange channels are based on airline mileage between the serving wire centers in accordance with Exchange Carrier Association Tariff F.C.C. No. 4.
- (5) Minimum Service Period: Local channels are subject to a minimum payment period of 24 months. If service is disconnected prior to the expiration of the initial 24-month period, termination liability charges are applicable for the remaining portion of the minimum period, whether service is used or not. The termination liability charge will be reduced by 1/24th for each month of service.

2. Circuit Components and Rates

The regulations and rates specified herein are in addition to the applicable regulations and rates specified in this and other tariffs of the Telephone Company.

The circuit components for a High Capacity Intraexchange Channel between two customer premises located in the same exchange or for a High Capacity Interexchange Channel between two customer premises located in different exchanges are:

HIGH CAPACITY — 1.544 Mbps SERVICE

A. High Capacity — 1.544 Mbps Service (Cont'd)

2. Circuit Components and Rates (Cont'd)

a. Local Channel

— Per Termination (two required, one for each premises at which the channel terminates).*

Monthly Rate

Initial	\$ 125.00 (D)
Additional†	\$ 100.00 (D)

Rate

Maximum Termination liability for each initial local channel installed.	\$4,372.00
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Maximum Termination liability for each additional local channel installed.	\$2,160.00
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b. High Capacity Service Installation

	<u>Nonrecurring Charge</u>	
	<u>Initial</u>	<u>Additional†</u>

— <u>Per Termination</u>	\$660.00	\$660.00
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c. Interexchange Channel, per mile

Monthly Rate

Mileage for interexchange channels is the airline distance between wire centers.‡	\$ 27.50
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A minimum of one mile applies to interexchange channels.

d. Multiplexing

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
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T1 to Voice: An arrangement that multiplexes a 1.544 Mbps Circuit to 24 Voice Grade channels.

— Per arrangement	\$300.00	None
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* If intercompany interexchange, only one local channel required for this Company.

† The additional local channel monthly rate and the Nonrecurring Charge apply to High Capacity services installed between the same locations as the initial channel.

‡ If intercompany interexchange, interexchange channel mileage is charged from the wire center to the point of connection of the other Company. When this service does not terminate at a customer's premises in this Company's territory, the nonrecurring charge specified in A.2.a preceding applies per High Capacity service.