

Verizon North LLC

## EXTENSION LINE AND CHANNEL MILEAGE

### A. EXTENSION LINES

Extension lines are used to connect extension stations, signals and other equipment located in buildings other than those housing the main station, with the telecommunications network.

Extensions of exchange service are limited to the local service area in which the main service is furnished. Lines extending outside the local service area are considered Foreign Exchange Service. Branch Exchange stations other than those located in the same building in which the private branch exchange is located are connected by means of channels as specified in B.2. following.

#### 1. RATES

a. Between Buildings on the Same or Adjoining Premises and Between Different Premises in the Same Building

- Between buildings on the same or adjoining premises, not separated by a public thoroughfare.
- Between buildings separated by a public thoroughfare that are connected by a passageway or bridge or tunnel or duct or conduit, either above or below ground, in which the wire can be placed.
- Between buildings separated by a public thoroughfare, where the connection would normally be made by placement of a drop wire from the same pole or terminal that serves the main station.
- Between premises of the same customer located on different floors of a multi-tenant office building.
- Between premises of different customers in the same building.

Monthly

|                            |        |
|----------------------------|--------|
| each 1/10 mile or fraction | \$ .60 |
|----------------------------|--------|

The mileage is the airline distance between the main and extension stations.

b. Between Other Points Within an Exchange Area

Monthly

|                                      |        |
|--------------------------------------|--------|
| First 1/2 mile or less, per circuit  | \$3.25 |
| Each additional 1/4 mile or fraction | 1.50   |

The mileage is the airline distance between the centers of the buildings in which the channels terminate.

c. Interexchange Extensions

Interexchange extensions within the same local service area are furnished at rates and mileage measurements as specified in B.2.c. and B.2.d. following, for Channels.

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### B. CHANNELS

Channels furnished by the company provide a private electrical communications path between two or more points. Channels are separate from and are not connected with the telecommunications network, except that tie lines connecting branch exchanges and PBX stations furnished via channels may be connected with the telecommunications network.

Local channels connect two or more points in the same exchange area or connect the termination of an interexchange channel in a Company office with a point in the exchange area served by that office. Channel extensions connect the initial termination of a local channel on the customer's premises with another point within the same building.

Interexchange channels connect two or more offices of the Company and/or offices of other communications carriers jointly providing a service.

#### 1. CONDITIONS

Channels are furnished over routes and in such manner as the Company may elect, whether by wire, radio or a combination thereof and whether or not by means of a single physical facility or route.

The service is only offered where suitable facilities are available that will not be required for telecommunications service.

Customer-provided equipment may be connected with channels furnished by the Company provided that the currents imposed by the customer's equipment and the operation thereof do not interfere with any of the services furnished by the Company. The Company may interrupt the channel at any time when necessary to protect any of the other services furnished by it.

Protective equipment, where required, will be provided either by the customer in accord with Company specifications or by the Company at the customer's expense.

Construction charges, specified elsewhere in this Product Guide, apply for the placement of poles or other construction required to furnish a direct point-to-point channel at the customer's request instead of utilizing existing telecommunications facilities routed via a central office.

#### 2. RATES

##### a. Reserved for future use.

\* \* \*

##### b. Local Channels Between Points in Different Buildings on the Same or Adjoining Premises

#### Monthly

|                                               |        |
|-----------------------------------------------|--------|
| Each two-point channel of voice grade or less |        |
| First 1/5 mile or less                        | \$1.20 |
| Each additional 1/10 mile or fraction         | .60    |

The mileage is the airline distance between the centers of the buildings in which the channel terminates.

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### B. CHANNELS (Cont'd)

#### 2. RATES (Cont'd)

##### c. Local Channels Between Other Points Within an Exchange Area

###### Monthly

|                                               |        |
|-----------------------------------------------|--------|
| Each two-point channel of voice grade or less |        |
| First 1/2 mile or less                        | \$3.25 |
| Each additional 1/4 mile or fraction          | 1.50   |

The mileage is the airline distance between the centers of the buildings in which the channel terminates.

The mileage for a local channel connecting an interexchange channel is the airline distance from the center of the building in which the channel terminates, to the principal central office in which the interexchange facilities normally terminate.

##### d. Interexchange Channels

###### Monthly

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| Each two-point channel furnished over facilities<br>of this company: |         |
| - per mile or fraction                                               | \$13.00 |

The mileage is the airline distance between the terminal toll message rate centers.

The charge for an interexchange channel furnished jointly by the Company and another company is the sum of: (1) the charges of this company for the part of the service furnished by it, plus; (2) all charges of the other company, or companies, for facilities and service that they furnish.

The mileage is the airline distance between the toll message rate center in this Company's territory and the point where the airline to the toll message rate center in the other company's territory crosses the common boundary between the companies.

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### B. CHANNELS (Cont'd)

#### 2. RATES (Cont'd)

##### e. Multi-Point Local and Interexchange Channels

The mileage for Local Channels connecting more than two buildings is the sum of the two-point airline distances between the buildings that will produce the lowest charge to the customer.

The mileage for Interexchange Channels connecting points in more than two exchange areas is the sum of the two-point airline distances between the toll rate centers, at which connection is made to a local channel, that will produce the lowest charge to the customer.

The distance between each pair of connected points is measured and rated separately.

When a channel terminates in more than two exchange areas, a monthly drop service charge applies in addition to the mileage charges. The drop service charge applies once for each exchange in excess of two in which a channel terminates, regardless of the number of channel terminations in any such exchange.

|                     | <u>Monthly</u> |
|---------------------|----------------|
| Drop Service Charge | \$10.00        |

##### f. Program Grade Channels

Program grade channels used for commercial broadcasting are provided at rates specified in The American Telephone and Telegraph Company tariff, F.C.C. No. 260.

##### g. Custom Grade Channels

Channels of other than teletypewriter grade or voice grade or channels of these grades that require special conditioning to satisfy requirements of the customer are furnished under special arrangement at rates based upon the cost of furnishing the service.

##### h. Submarine Circuits

Rates based upon cost apply for submarine circuits and are individually determined for each use.

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### B. CHANNELS (Cont'd)

#### 3. NONRECURRING CHARGES FOR CHANNELS

- a. Nonrecurring charges for installation, relocation and changes in channels are as specified in Section 37 for the work components involved to provide the channel.

Only one access line connection charge and premises wiring charge is applicable for each 4-wire channel to each channel terminal where the channel terminals are located in different exchange areas or in different central office areas of a multi-office exchange area.

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C. CHANNELS DESIGNED FOR DATA TRANSMISSION AND OTHER SPECIAL PURPOSES

1. GENERAL

- a. The rates and rules in B. preceding are applicable to Voice Grade Channels, consisting of available exchange telephone facilities suitable for voice transmission and certain types of signal transmission, within the 300 to 2800 Hz bandwidth. Voice grade untreated facilities may be used for transmission of data at slower speeds, however, the Company does not represent that the facilities will be suitable for this purpose.
- b. Data transmitting/receiving equipment utilizing higher signalling rates require specially conditioned channels compatible with the type of signal to be transmitted. Proper conditioning of private line channels assures the users of a transmission medium compatible with the needs of the terminal equipment.
- c. At the request of the customer, channels will be conditioned to meet the following parameters.

Type C1

The envelope delay distortion shall not exceed:

- Between 800 and 2600 Hz, a maximum difference of 1750 micro-seconds.

The loss deviation with frequency (from 1000 Hz reference) shall not exceed:

- Between 1000 and 2400 Hz, -1db to +3db
- Between 300 and 2700 Hz, -2db to +6db
- Between 2700 and 3000 Hz, -3db to +12db

Type C2

The envelope delay distortion shall not exceed:

- Between 1000 and 2600 Hz, a maximum difference of 500 micro-seconds.
- Between 600 and 2600 Hz, a maximum difference of 1500 micro-seconds.
- Between 500 and 2800 Hz, a maximum difference of 3000 micro-seconds.

The loss deviation with frequency, from 1000 Hz reference, shall not exceed:

- Between 500 and 2800 Hz, -1db to +3db
- Between 300 and 3000 Hz, -2db to +6db

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## EXTENSION LINE AND CHANNEL MILEAGE

### C. CHANNELS DESIGNED FOR DATA TRANSMISSION AND OTHER SPECIAL PURPOSES (Cont'd)

#### 1. GENERAL (Cont'd)

##### c. Cont'd

##### Type C4

The envelope delay distortion shall not exceed:

- Between 1000 and 2600 Hz, a maximum difference of 300 micro-seconds.
- Between 600 and 2600 Hz, a maximum difference of 1500 micro-seconds.
- Between 500 and 3000 Hz, a maximum difference of 3000 micro-seconds.

The loss deviation with frequency, from 1000 Hz reference, shall not exceed:

- Between 500 and 3000 Hz, -2db to +3db
- Between 300 and 3200 Hz, -2db to +3db

##### Type C5

The envelope delay distortion shall not exceed:

- Between 1000 and 2600 Hertz, a maximum difference of 100 micro-seconds.
- Between 600 and 2600 Hertz, a maximum difference of 300 micro-seconds.
- Between 500 and 2800 Hertz, a maximum difference of 600 micro-seconds.

The loss deviation with frequency (from 1000 Hertz reference) shall not exceed:

- Between 500 and 2800 Hertz, -0.5db to +1.5db
- Between 300 and 3000 Hertz, -1.0db to +3.0db

##### Type D1, High Performance Data Conditioning

Type D1 Channel Conditioning Arrangements provide for the following technical parameters two point channels:

|                                         |      |
|-----------------------------------------|------|
| Signal to C-Notched Noise Ratio .....   | 28db |
| Nonlinear Distortion:                   |      |
| Signal to second order distortion ..... | 35db |
| Signal to third order distortion .....  | 40db |

When a channel equipped with Type D1 Channel Conditioning is utilized for voice communications, the Company does not represent that the channel will be suitable for such voice transmission.

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## EXTENSION LINE AND CHANNEL MILEAGE

### C. CHANNELS DESIGNED FOR DATA TRANSMISSION AND OTHER SPECIAL PURPOSES (Cont'd)

#### 2. CONDITIONS

- a. The customer shall be responsible for specifying the type of channel, type of conditioning and transmission characteristics required for operation of the data transmitting/receiving equipment provided by the customer.
- b. The frequency range, signaling rates, and other characteristics of signals transmitted must fall within those specified for the type of channel furnished by the Company.
- c. A private line channel may be used for different types of transmission on an alternate use basis provided such alternate use is within the parameters of the type of channel provided for the primary purpose.

The purpose or purposes for which conditioned channels are to be used must be made known to the Company prior to such use.

- d. Multi-point data lines where more than 2 points are involved will require more stringent parameters that are utilized in the industry.

#### 3. RATES

Custom rates based upon actual cost estimates of labor, materials and overhead costs will apply for conditioning of a channel or channels to meet the parameters specified in C.1 preceding.

The rates will be computed for each individual case as the wide variation in costs involved to meet customer requirements makes uniform rates impractical.