

**GENERAL**

1. In addition to the regulations set forth in the regulations section of this Guidebook applicable to Private Line services, additional regulations are set forth throughout this section.
2. Channels are classified by series, and further classified within each series by types. The various series and types are described in terms of circuit characteristics and use.
3. The customer is responsible for the selection of the service, i.e., type of circuit, signaling options, jacks and terminating interfaces required to meet his needs. The customer-provided terminal equipment and station apparatus must be compatible with the service provided by the Company. The Company has overall responsibility for the Private Line service up to the network interface/demarcation point. Terms and conditions for the location of demarcation points are found in 'Rules and Regulations Applying to All Customers' Contracts' in Part 2, Section 2.
4. Exchange rates, rules and regulations apply for the exchange portion of the total service when Private Line services are used in connection with exchange services, or are connected to exchange services or equipment.
5. When the number of Private Line services is such that cable facilities are required, such cable facilities may be provided especially for the customer's use and not as a part of the Company's general distributing plant, at charges based upon cost in lieu of guidebook charges, where to do so results in lower charges to the customer.<sup>/1/</sup>

When it is feasible to connect buildings by the use of channels obtained from a cable for which carrying charges are paid to the Company, the regular guidebook charges do not apply. The channel termination charge is as shown below. The channel termination provides for termination at the demarcation point and does not provide for inside wiring beyond this demarcation point.

	<u>USOC</u>	<u>Duplex Monthly Rate</u>	<u>Nonrecurring Charge</u>
Channel Termination	29G	\$2.15	\$37.00

/1/ This offering is obsolete and applicable only to existing installations at existing locations for existing customers. (Cannot add to, cannot outside move, cannot supersede.)

**SPECIAL SIGNALING SERVICE - SERIES 100**

**A. Channel Uses**

These channels are suitable for use with two-point or multi-point service subject to the number of point limitations indicated for each type and are provided for use with customer-provided power and signaling equipment and other special signaling services.

It is expressly declared that metallic interoffice facilities for this type of service are in continually decreasing supply and the Company is not obligated to continue to make such additional facilities available.

Those local channels used to provide a transmission path to connect customer-premises station equipment (CPE) at a premises are defined in terms of electrical interfaces. Interconnection protection criteria and regulations as described in Part 15, Section 1 shall apply.

The types of local channels offered for termination at a premises for termination in customer-premises terminal equipment and systems are as follows:

Type 101

Transmission Characteristics in C. following

Type 102

Transmission Characteristics in C. following

**B. Types of Channels**

Type 101 service is furnished on an intraexchange two- or three-point basis only.

Type 102 service is furnished on an intraexchange multi-point (minimum of four points, maximum of 26 points) basis. Type 102 service is provided on an interexchange two-point or multi-point (maximum of 26 points) basis.<sup>/1/</sup>

Service is restricted to no more than three serving offices, including the serving office of the central station.<sup>/1/</sup>

/1/ Not applicable to existing multi-point services with more than 26 points of termination or terminations in more than three serving offices installed prior to November 13, 1980. No additional or replacement of points of termination in excess of these limitations will be permitted.

**SPECIAL SIGNALING SERVICE - SERIES 100 (cont'd)****C. Transmission Characteristics**

Transmission characteristics of Types 101 and 102 are as follows:

1. Type 101 service has a two-wire interface with two-wire facilities suitable for use with direct current transmission (metallic continuity). Customers may order two two-wire services to achieve four-wire service.

Transmission specifications and limitations are described in the Bell System Technical Reference on the transmission specification for private line metallic circuits which include the following:

Current applied by CPE - AC and DC components per conductor, not to exceed .150 amperes rms.

Magnitude of the peak of the voltage between any conductor and ground - not to exceed 70.7 volts except continuous DC voltage not to exceed 135 volts.

2. Type 102 service has a two-wire interface with two-wire facilities suitable for low speed, unidirectional series - operated signaling, and may be implemented by either metallic channels or by other means at the Company's option. If provided by "other means," the transmission specifications are described in a Bell System Technical Reference for low speed signaling channels.

**D. Rates - Intraexchange Series 100**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Local Channel, each, Per first termination on a premises <sup>/1/</sup>			
Type 101 .....	1LMCY, 1L3QY	\$912.00 (I)	\$130.00 <sup>/2/</sup>
Type 102 .....	1LMCY, 1L3QY	912.00 (I)	\$160.00 <sup>/2/</sup>

/1/ The application of rates for service within the same building applies for services between premises not more than one mile apart which are connected by an enclosed passageway as of November 13, 1980. This application of rates is restricted to existing service installations at existing locations for existing customers. Existing service installations refers to existing enclosed passageways connecting buildings on different premises as of November 13, 1980.

/2/ Additional charges may apply as outlined in paragraph G. 'Method of Applying Rates' in Part 15, Section 1.

**SPECIAL SIGNALING SERVICE - SERIES 100 (cont'd)****D. Rates - Intraexchange Series 100 (cont'd)**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
2. Interoffice Channel, each V-H mile or fraction thereof, per channel			
Type 101 .....	1LMCS,1L3QS	\$6.30	---
Type 102 .....	1LMCS,1L3QS	5.50	---
3. Interoffice Channel Terminal per terminal, (two required per interoffice channel)			
Type 101 .....	OXNSL,OXNTL	---	---
Type 102 .....	OXNSL,OXNTL	3.40	---
4. Each additional point of termination of a local channel, different building, same premises per 1/10 mile <sup>/1/</sup>			
Type 101			
First 1/10 mile .....	1LMCK,1L3QK	3.40	\$55.00
Additional 1/10 mile .....		.70	---
Type 102			
First 1/10 mile .....	1LMCK,1L3QK	3.40	55.00
Additional 1/10 mile .....		.70	---
5. Each additional point of termination of a local channel in same building <sup>/1/</sup>			
Type 101 .....	1LMCA,1L3QA	1.10	55.00
Type 102 .....	1LMCA,1L3QA	1.10	55.00
6. Two-Point Service, different building same premises, each, per 1/10 mile <sup>/1/</sup>			
Type 101			
First 1/10 mile .....	1LMCE,1L3QE	4.40	69.00 <sup>/2/</sup>
Additional 1/10 mile .....		.70	---
7. Two-Point Service, same building <sup>/1/</sup>			
Type 101 .....	1LMCB,1L3QB	2.10	69.00 <sup>/2/</sup>
8. Each additional point of termination in same building for two-point service in 6 or 7, preceding <sup>/1/</sup>			
Type 101 .....	1LMCC,1L3QC	1.10	55.00

/1/ Obsolete - applicable to existing installations at existing locations, subject to maximum capacity of available facilities.

/2/ Nonrecurring charge applies to each point of termination.

**SPECIAL SIGNALING SERVICE - SERIES 100 (cont'd)****E. Rates - Interexchange Series 102**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Local Channel, each, per first termination on a premises Type 102.....	1LMCY,1L3QY	\$912.00 (I)	\$210.00
2. Interoffice Channel, each V-H mile, or fraction thereof, per channel Type 102.....	1LMCS,1L3QS	5.50	---
3. Interoffice Channel Terminal, per terminal (two required per interoffice channel) Type 102.....	OXNSS,OXNTS	6.30	---
	<u>USOC</u>	Monthly Rate 1 to 150 miles each mile	Each additional mile over 150
4. Interexchange Channel, per V-H mile or fraction thereof, per channel Type 102 .....	1LMC4,1L3Q4	\$5.25	\$5.25
	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
5. Interexchange Channel terminal, each (two required per interexchange channel) Type 102 .....	OXN2S,OXN3S	\$11.65	---
6. Each Additional point of termination of a local channel, different building, same premises, per 1/10 mile <sup>/1/</sup> Type 102 First 1/10 mile .....	1LMCK,1L3QK	3.40	\$75.00
Additional 1/10 mile .....		.70	---
7. Each additional point of termination of a local channel in the same building <sup>/1/</sup> Type 102 .....	1LMCA,1L3QA	1.10	75.00

/1/ Obsolete - applicable to existing installations at existing locations, subject to maximum capacity of available facilities.

**SUB-VOICE GRADE SERVICE - SERIES 200****A. Channel Uses**

Sub-Voice Grade service provides, and is designed for, transmission of low speed data at rates up to 75 and up to 150 baud within certain technical specifications. These channels are furnished for half duplex and duplex operation. The service is not suitable for the transmission of alternating current tones.

**B. Types of Channels and Transmission Characteristics**

The types of local channels and the transmission characteristics offered for termination at a premises for termination in customer-provided terminal equipment and systems are as follows:

Type 250

An interface engineered for binary signals at rates up to 75 baud,  $20 \pm 1$  or  $62.5 \pm 2.5$  milliamperes neutral signals<sup>/1/</sup>. The terminal equipment shall deliver no more than 8% telegraph distortion and shall be capable of processing received data signals with up to 35% telegraph distortion.

Type 251

EIA standard RS232C type interface engineered for binary signals at rates up to 150 baud and the terminal equipment shall deliver no more than 5% telegraph distortion and shall be capable of processing received data signals with up to 40% telegraph distortion.

Note that the specifications of channel signals refer to the requirement of the total service offering and not the individual local channel.

Type 250 and Type 251 channels are furnished for teletypewriter, data, supervisory control and miscellaneous signaling use.

/1/ The Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. The Company will supply the line voltage and provide for the current adjustment. The maximum open circuit voltage across the send data leads at the interface will not exceed 270 volts.

**SUB-VOICE GRADE SERVICE - SERIES 200 (cont'd)****C. Rates – Intraexchange**

	Half Duplex		Duplex		Nonrecurring Charge
	<u>USOC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>Monthly Rate</u>	
1. Local Channel, each Per first termination on premises <sup>/1/</sup>					
Type 250.....	1L3AY 1LMFY 1LYDY	\$1,377.00(I)	1LMDY 1LYKY	\$2,643.00(I)	\$210.00
Type 251.....	1L3AY 1LMFY 1LYDY	1,377.00(I)	1LMDY 1LYKY	2,643.00(I)	210.00
2. Interoffice Channel Each V-H mile or fraction thereof, per channel					
Type 250.....	1L3AS 1L6BS 1LMFS 1LYDS	237.00(I)	1L3CS 1L6DS 1LMDS 1LYKS	4.25	---
Type 251.....	1L3AS 1L6BS 1LMFS 1LYDS	237.00(I)	1L3CS 1L6DS 1LMDS 1LYKS	4.25	---
3. Interoffice Channel Terminal Per terminal (two required for each interoffice channel)					
Type 250.....	O1N5L	6.50	O1N6L	6.50	---
Type 251.....	O1N5L	5.50	O1N6L	5.50	---

/1/ The application of rates for service within the same building applies for service between premises not more than one mile apart which are connected by an enclosed passageway as of November 13, 1980. This application of rates is restricted to existing service installations at existing locations for existing customers. Existing service installations refer to existing enclosed passageways connecting buildings on different premises as of November 13, 1980.

**SUB-VOICE GRADE SERVICE - SERIES 200 (cont'd)****C. Rates – Intraexchange (cont'd)**

		Half Duplex		Duplex		Nonrecurring Charge
		<u>USOC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>Monthly Rate</u>	
4.	Each additional point of termination of a local channel, different building on the same premises, per 1/10 miles <sup>/1/,/2/</sup>					
	Type 250					
	First 1/10 mile .....	1LMFK	\$ 9.25	1LMDK	\$12.75	\$ 80.00
	Additional 1/10 mile .....		.70		.70	---
5.	Each additional point of termination of a local channel in same building <sup>/1/,/2/</sup>					
	Type 250 .....	M8X W1W	7.00			80.00
6.	Two-Point Service, different buildings, same premises, per 1/10 mile <sup>/2/</sup>					
	Type 250					
	First 1/10 mile .....	1L6BE 1LMFE	16.25	1LYKE 1LMDE 1L6DE	16.25	110.00 <sup>/3/</sup>
	Additional 1/10 mile .....		.70		.70	
	Type 251					
	First 1/10 mile .....	1L6BE	22.75	1LYKE 1L6DE 1LMDE	22.75	110.00 <sup>/3/</sup>
	Additional 1/10 mile .....		.70		.70	

/1/ Maximum of three terminations on the same premises for Type 250 and no additional termination of Type 251.

/2/ Obsolete - applicable to existing installations at existing locations, subject to maximum capacity of available facilities.

/3/ Nonrecurring charge applies to each point of termination.



**SUB-VOICE GRADE SERVICE - SERIES 200 (cont'd)****C. Rates – Intraexchange (cont'd)**

	Half Duplex		Duplex		Nonrecurring Charge
	<u>USOC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>Monthly Rate</u>	
7. Two-Point Service, same building <sup>/1/</sup>					
Type 250.....	1LYDB 1L3AB 1L6BB 1LMFB	\$14.00	1LYKB 1L6DB 1LMDB	\$14.00	\$110.00 <sup>/2/</sup>
Type 251.....	1LYDB 1L3AB 1L6BB 1LMFB	20.50	1LYKB 1L6DB 1LMDB	20.50	110.00 <sup>/2/</sup>
8. Each additional point of termination in same building for two-point service in 6 or 7, preceding <sup>/1/,/3/</sup>					
Type 250.....	J5Y	7.00	WAP DUX	7.00	80.00

**D. Rates – Interexchange**

1. Local Channel, each, per first termination on a premises					
Type 250.....	1L3AY 1LYDY 1LMFY	1,377.00 (I)	1L3CY 1LYKY 1LMDY	2,643.00 (I)	280.00
Type 251.....	1L3AY 1LYDY 1LMFY	1,377.00(I)	1L3CY 1LYKY 1LMDY	2,643.00 (I)	280.00

/1/ Obsolete - applicable to existing installations at existing locations, subject to maximum capacity of available facilities.

/2/ Nonrecurring charge applies to each point of termination.

/3/ Maximum of three terminations on the same premises for Type 250 and no additional termination of Type 251.

**SUB-VOICE GRADE SERVICE - SERIES 200 (cont'd)****D. Rates – Interexchange (cont'd)**

	Half Duplex		Duplex		Nonrecurring Charge
	<u>USOC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>Monthly Rate</u>	
2. Interoffice Channel, each, V-H mile, or fraction thereof, per channel					
Type 250 .....	1LYDS 1L3AS 1LMFS	\$3.00	1LYKS 1L3CS 1LMDS	\$4.00	---
Type 251 .....	1LYDS 1L3AS 1LMFS	3.00	1LYKS 1L3CS 1LMDS	4.00	---
3. Interoffice Channel Terminal, per terminal (two required for each interoffice channel)					
Type 250 .....	O1N5S	12.35	O1N6S	12.35	---
Type 251 .....	O1N5S	6.85	O1N6S	6.85	---
	<u>USOC</u>	Half Duplex Monthly Rate	<u>USOC</u>	Duplex Monthly Rate	
		0 to 150 miles <u>Each mile</u>		0 to 150 miles <u>Each mile</u>	
4. Interexchange Channel, each V-H mile, or fraction thereof, per channel					
Type 250 .....	1LYK4 1L3C4 1LMD4 1L6D4	\$4.20	\$2.30	\$4.20	\$2.30
Type 251 .....	1LYK4 1L3C4 1LMD4 1L6D4	3.60	2.60	3.60	2.60

**SUB-VOICE GRADE SERVICE - SERIES 200 (cont'd)****D. Rates – Interexchange (cont'd)**

	Half Duplex		Duplex		Nonrecurring Charge
	<u>USOC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>Monthly Rate</u>	
5. Interexchange Channel Terminal, per terminal (two required per interexchange channel)					
Type 250 .....	O1N2S	\$42.65	O1N3S	\$43.45	---
Type 251 .....	O1N2S	40.40	O1N3S	41.15	---
6. Each additional point of termination of a local channel, different building, same premises, each, per 1/10 mile <sup>/1/,/2/</sup>					
Type 250					
First 1/10 Mile .....	1LMFK	9.25			\$115.00
Additional 1/10 Mile..		.70			---
7. Each additional point of termination of a local channel in same building <sup>/1/,/2/</sup>					
Type 250 .....	M8X W1W	7.00			115.00

/1/ Maximum of three terminations on the same premises for Type 250 and no additional terminations for Type 251.

/2/ Obsolete - applicable to existing installations at existing locations, subject to maximum capacity of available facilities.

**VOICE GRADE SERVICE - SERIES 300 AND 400****A. Channel Uses**

Series 300 and 400 voice grade channels are furnished for half duplex (voice or data use) and duplex (data use) operations for oral communications, and data communications which operate within certain technical specifications. The channels maybe used as the customer elects within the technical specifications and guidelines specified. The channels are offered for termination at a premises for connection to customer-provided terminal equipment and systems as follows:

Type 314

Furnished for tie line use between a premises PBX (or similar) switching system and a Centrex (with switching equipment located on the Company premises) Type 314B; or between two Centrex's (with switching equipment located on the Company premises) Type 314C. The Type 314B channel provides for either a two-wire or four-wire interfaces at the customer's premises with effective four-wire facilities engineered to VNL Design specifications for tie line use.

Type 315

Furnished for voice transmission, in the same serving office as the primary service<sup>/1/</sup>, off-premises extension (non-PBX) and off-premises Centrex (with switching equipment located on the Company premises) station and/or extension station use. Provides a two-wire interface with two-wire facilities engineered for a maximum facility loss of 6db. Loop signaling arrangement is also provided with this service.

(D)

(D)

Type 322

Furnished for half duplex data transmission for an Automatic Identified Outward Dialing (AIOD) data channel. For use between a premises PBX (or similar) switching system and a serving office. Provides a two-wire interface with effective two-wire facilities engineered for a maximum facility loss of 13 dB.

Type 323

Furnished for use with Centrex (with switching equipment located on the Company premises) Data link consoles. For service between the premises control cabinet and the serving office.

/1/ For rates and charges applicable to foreign serving office service see paragraph H. following.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****A. Channel Uses (cont'd)**Type 420

A four-wire interface with four-wire facilities engineered for 1000 Hz net loss of 16 dB. Normally suitable for use as a full duplex data channel.<sup>/1/</sup>

Type 422

A two-wire interface with effective two-wire facilities engineered for a 1000 Hz net loss of 16 dB. Normally suitable for use as a half duplex data channel.<sup>/1/</sup>

Type 423

A two-wire interface with effective two-wire facilities engineered for a 1000 Hz net loss of up to 10 dB for two-point service and up to 20 dB for multi-point service. Normally suitable for use as a voice channel.<sup>/1/</sup>

Type 424

A two-wire or four-wire interface with effective four-wire facilities engineered to VNL design specifications for tie line use. Normally suitable for use as a tie line between two premises PBXs (or similar) switching systems. Refer to 'Served Direct Service' found later in this Section for applicable signaling charges.

Type 425

A four-wire interface with four-wire facilities engineered for a 1000 Hz net loss of 16 dB. Normally suitable for use as a voice channel.

Type 428

A two-wire interface with two-wire facilities engineered for a 1000 Hz net loss of VNL+4 dB. Normally suitable for use as a main or extension station of a premises PBX (or similar) switching system. Additional signaling arrangements may be required, refer to 'Alternate Use of Private Line Service Channels' found later in this Section for charges.

Type 435

A two-wire interface with four-wire facilities engineered for a 1000 Hz net loss of 16 dB. Normally suitable for use as a multi-point voice channel where two-way communication is required.

Customers must insure that neither direct transmitted signal nor reflected signal energy is allowed to violate interconnection protection criteria and regulations as set forth in Part 15, Section 1 of this Guidebook.

Specifications of net loss (or gain) refers to the requirement of the total channel offering, not the individual local channel. Gains or losses present in customer-provided equipment have not been included.

/1/ Type 420 through Type 423 local channels are not suitable for, nor can they be used for, switching and/or tandem operations to the switched network or other private line services.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****B. Options**

1. Signaling options required to arrange Series 400 channels for suitable signaling are available at charges found in 'Alternate Use of Private Line Service Channels' later in this Section.<sup>/1/</sup>
2. Bridging charges per channel bridged apply when three or more voice grade channels are connected at the same location. Bridging charges do not apply to Foreign Serving Office and Series 300 channels.

**C. Parameters and Specifications**

Parameters and Specifications for two-point service used with customer-provided equipment (described in A.) are as follows: Speech application specifications and limits apply to all local channels except Type 420 and 422. Data application specifications and limits apply only to Types 420 and 422.

<u>Basic Parameters</u>	<u>Specification or Limit</u>
Net Loss	The specifications of net loss or gain refer to the requirements of the total channel service offering, not the individual local or interoffice channel. Losses or gains present in customer-provided equipment have not been included.
DC Resistance	Local Channels used with customer-provided equipment - Limit as specified in Standard Bell System Design Practices and/or Technical References does not imply or guarantee end-to-end DC continuity
Frequency Error	$\pm 5$ Hz
Frequency Response	300-3000 Hz, -3 dB to +12 dB 500-2500 Hz, -2 dB to +8 dB ("+" means more loss and "-" means less loss)
Envelope Delay Distortion	For Speech Application, not controlled For Data Applications: - less than 1000 micro-seconds, 1000-2400 Hz - less than 1750 micro-seconds, 800-2600 Hz.

/1/ The application of signaling options currently provided to arrange Series 400 on premises, same building and additional point of termination services is obsolete--applicable to existing installations at existing locations - subject to maximum capacity of available facilities.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****C. Parameters and Specifications (cont'd)**

<u>Basic Parameters</u>	<u>Specification or Limit</u>
-13 dBm0 1000 Hz	For Speech Application, 20 db
Test Signal to C-Notched Noise Ratio	For Data Application, 24 dB
Impulse Noise	For Speech Application, 90 counts in 15 minutes at a threshold of 1 dB below a -13 dBm0 rms 1000 Hz Test Signal  For Data Application, 15 counts in 15 minutes at a threshold of 6 dB below a -13 dBm0 rms 1000 Hz Test Signal
Phase Jitter	For Speech Application, 18 degrees peak to peak For Data Application, 10 degrees peak to peak
Non-Linear Distortion Signal to 2nd Order Distortion	For Speech Application, 20 dB For Data Application, 25 dB
Signal to 3rd Order Distortion	For Speech Application, 25 dB For Data Application, 30 dB

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****D. Multi-Point**

The Company will provide bridging equipment in serving offices and primary serving offices to provide multi-point service. Bridging charges apply per channel (interoffice channel, local channel and interexchange channel) in offices where three or more channels are bridged. Bridging charges do not apply to Foreign Serving Office or Series 300 channels. See E.9 for intraexchange charges and F.8 for interexchange charges.

Standard bridging equipment for two-way communication between all points will be provided unless the customer specifies another fixed bridging arrangement.

Two-wire channel services are restricted to no more than five points or 4000 total route miles.  
Four-wire channel services are restricted to no more than 20 points or 4000 total route miles.<sup>/1/</sup>

These restrictions do not apply to one-way simultaneous transmission from a master station to all other stations such as broadcast-type Multi-Point service. The transmission parameters in paragraph C., preceding, are not applicable to Multi-Point service consisting of more than twenty points where local channels with two-way simultaneous communication is involved.

/1/ 422 type channels are limited to no more than 20 points or 4000 total route miles.



**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****E. Rates - Intraexchange**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Local Channel, each, per first termination on premises <sup>/1/</sup>			
Type 314B <sup>/2/</sup> .....	1LTBY	\$39.25	\$340.00 <sup>/3/</sup>
Type 314C.....	1LTCY	---	250.00
Type 315 <sup>/2/</sup> .....	1LLRY,1LLHY	1,114.00 (I)	240.00 <sup>/3/</sup>
Type 322.....	1L6QY	32.00	390.00
Type 420 <sup>/2/</sup> .....	1L6CY,1LMDY	2,643.00 (I)	230.00
Type 422 <sup>/2/</sup> .....	1L6AY,1LMFY	2,442.00 (I)	230.00
Type 423 <sup>/2/</sup> .....	1LLUY,1LPAY		
	1L1OY,1L3AY		
	1LMGY	909.00 (I)	175.00 <sup>/3/</sup>
Type 424 <sup>/2/</sup> .....	1LTAY	30.25	205.00 <sup>/3/</sup>
Type 425 <sup>/2/</sup> .....	1LMJY	22.50	180.00
Type 428 <sup>/2/</sup> .....	1LLJY,1LMKY	1,111.00 (I)	175.00 <sup>/3/</sup>
Type 435 <sup>/2/</sup> .....	1LPWY,1LMMY	31.25	195.00

/1/ The application of rates for service within the same building applies for services between premises not more than one mile apart which are connected by an enclosed passageway as of November 13, 1980. This application of rates is restricted to existing service installations at existing locations for existing customers. Existing service installations refer to existing enclosed passageway connecting buildings on different premises as of November 13, 1980.

/2/ When service terminates in a SmartTrunk Interface or in a channel port of an Access Advantage Plus Service, a Local Channel charge will not apply for that location. All other appropriate circuit charges specified in this Guidebook will apply to the remainder of the circuit.

/3/ Additional charges may apply as outlined in paragraph G. 'Method of Applying Rates' in Part 15, Section 1.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****E. Rates – Intraexchange (cont'd)**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
2. Interoffice Channel, each V-H mile, or fraction thereof per channel.....	1LJKS,1LLBS 1LPJS,1LTBS 1L1OS,1L3AS 1L6BS,1L6DS 1LMFS,1LLUS 1LXQS	\$165.00	---	(l)
3. Interoffice Channel Terminal per terminal (two required per interoffice channel)				
Type 314B .....	PMN4B	5.00	---	
Type 314C .....	PMN4C	7.80	---	
Type 322.....	PMN22	12.75	---	
Type 420.....	PMNCL,PMN3A	615.00	---	(l)
Type 422.....	PMNEL,PMN3B	8.75	---	
Type 423.....	PMNFL,PMN11			
	PMNUL	4.50	---	
Type 424.....	PMNGL,PMN4A	6.10	---	
Type 425.....	PMNHL	6.30	---	
Type 428.....	PMNLL,PMN12	7.25	---	
Type 435.....	PMN5L,PMN2O	5.70	---	

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****E. Rates – Intraexchange (cont'd)**

		Monthly Rate		Nonrecurring Charge
<u>USOC</u>		<u>First 1/10 Mile</u>	<u>Each Add'l 1/10 Mile</u>	
4.	Each additional point of termination of local channel in different building, same premises <sup>/1/</sup>			
Type 422 .....	1LMFK	\$4.30	\$ .70	\$80.00
Type 423 .....	1LMGK,1LPJK			
	1LLUK	3.50	.70	65.00
Type 425 .....	1LMJK	8.50	1.40	65.00
Type 435 .....	1LMKK	6.75	1.40	95.00
5.	Each additional point of termination of a local channel in same building <sup>/1/</sup>			
Type 422 .....	M8XF3,M8X	2.00	---	80.00
Type 423 .....	M8XG3,2SE			
	M8X	1.25	---	65.00
Type 425 .....	MUXJ3	4.00	---	65.00
Type 435 .....	M8XK3	2.25	---	95.00

/1/ Obsolete - applicable to existing installations at existing locations - subject to maximum capacity of available facilities.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****E. Rates – Intraexchange (cont'd)**

		Monthly Rate		Nonrecurring Charge	
		First 1/10 Mile	Each Add'l 1/10 Mile		
		<u>USOC</u>		<u>Charge</u>	
6.	Two-Point Service and Business Extension lines, different buildings, same premises, per 1/10 mile <sup>/1/</sup>				
a.	Type 420 .....	1LMDE,1L6DE	\$23.75	\$1.40	\$132.00 <sup>/2/</sup>
	Type 422 .....	1LMFE,1L6BE	6.25	.70	132.00 <sup>/2/</sup>
	Type 423 .....	1LMGE,1LLUE			
		1LPJE,1L1OE			
		1L3AE	4.40	.70	70.00 <sup>/2/</sup>
	Type 425 .....	1LMJE	12.50	1.40	70.00 <sup>/2/</sup>
b.	Residence Extension Line .....	1LLJE	---	---	78.00 <sup>/2/</sup>
		1LLBE	---	.70	---
c.	Business Extension Line .....	1LLBE	4.40	.70	78.00 <sup>/2/</sup>
7.	Two-Point Service, same building <sup>/1/</sup>				
	Type 420 .....	1LMDB,1L6DB	19.00	---	132.00 <sup>/2/</sup>
	Type 422 .....	1LMFB,1L6BB	3.90	---	132.00 <sup>/2/</sup>
	Type 423 .....	1LMMB			
		1L3AB,29H	2.50	---	70.00 <sup>/2/</sup>
	Type 424 .....	1LTBB	22.50	---	96.00 <sup>/2/</sup>
	Type 425 .....	1LMJB	7.75	---	70.00 <sup>/2/</sup>

/1/ Obsolete - applicable to existing installations at existing locations - subject to maximum capacity of available facilities.

/2/ Nonrecurring charge applies to each point of termination.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****E. Rates – Intraexchange (cont'd)**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
8. Each additional point of termination in the same building for 6 and 7 preceding <sup>/1/</sup>			
Type 420 .....	DUX	\$9.50	\$80.00
Type 423 .....	J5YG3,EZ6,4SE	1.25	65.00
9. Bridging Charges (Multi-Point Service), per channel bridged.....	BQ7	5.95	---

/1/ Obsolete - applicable to existing installations at existing locations - subject to maximum capacity of available facilities.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****F. Rates - Interexchange**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Local Channel, each, per first termination on a premises			
Type 314B <sup>/1/</sup> .....	1LTBY	\$39.25	\$535.00 <sup>/2/</sup>
Type 314C <sup>/1/</sup> .....	1LTCY	---	450.00 <sup>/2/</sup>
Type 315 <sup>/1/</sup> .....	1LLAY	912.00 (I)	240.00 <sup>/2/</sup>
Type 322 .....	1L6QY	32.00	470.00
Type 420 <sup>/1/</sup> .....	1LMDY,1L6CY		
	1LLCY	2,643.00 (I)	265.00
Type 422 <sup>/1/</sup> .....	1LMFY,1L6AY		
	1LLDY	2,442.00 (I)	265.00
Type 423 <sup>/1/</sup> .....	1LPAY,1L1OY		
	1L3AY,1LLBY		
	1LMGY	909.00 (I)	260.00 <sup>/2/</sup>
Type 424 <sup>/1/</sup> .....	1LMHY,1LTAY	30.25	310.00
Type 425 <sup>/1/</sup> .....	1LMJY	22.50	260.00
Type 428 <sup>/1/</sup> .....	1LPRY,1LMKY	1,111.00 (I)	260.00 <sup>/2/</sup>
Type 435 <sup>/1/</sup> .....	1LMMY,1LPWY		
	1L1MY,1L3WY	31.25	250.00
2. Interoffice Channel, each V-H mile, or fraction thereof, per channel .....	1LJKS,1LPJS		
	1LTBS,1L1OS		
	1L3AS,1L6BS		
	1L6DS,1LMFS	237.00 (I)	---
3. Interoffice Channel Terminal, per terminal (two required per interoffice channel) .....	PMNSS	4.60	---

/1/ When service terminates in a SmartTrunk Interface or in a channel port of an Access Advantage Plus Service, a Local Channel charge will not apply for that location. All other appropriate circuit charges specified in this Guidebook will apply to the remainder of the circuit.

/2/ Additional charges may apply as outlined in paragraph G. 'Method of Applying Rates' in Part 15, Section 1.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****F. Rates – Interexchange (cont'd)**

		Monthly Rate	
		0 to 150 miles each mile	Each add'l mile over 150
	<u>USOC</u>		
4. Interexchange Channel, V-mile, or fraction thereof, per channel.....	1LHU4	\$3.10	\$2.15
		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
5. Interexchange Channel Terminal, per terminal (two required per interexchange channel)			
Type 314B .....	P1NH1	\$12.95	---
Type 314C .....	P1NJ1	15.00	---
Type 322 .....	P1NM1	19.40	---
Type 420 .....	P1NQ1,P1NC1	1,264.00 (l)	---
Type 422 .....	P1NR1,P1NE1	15.90	---
Type 423 .....	P1NS1,P1NA1	12.95	---
Type 424 .....	P1NT1,P1NG1	12.95	---
Type 425 .....	P1NU1	12.95	---
Type 428 .....	P1NV1,P1NB1	12.95	---
Type 435 .....	P1NW1,P1NL1	12.95	---

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****F. Rates – Interexchange (cont'd)**

		Monthly Rate		Nonrecurring Charge
		First 1/10 Mile	Each add'l 1/10 Mile	
		<u>USOC</u>		
6.	Each additional point of termination of local channel in different building, same premises <sup>/1/</sup>			
	Type 422 .....	1LMFK	\$4.30      \$ .70	\$80.00
	Type 423 .....	1LMGK,1LPJK	3.50      .70	65.00
	Type 425 .....	1LMJK	8.50      1.40	65.00
	Type 435 .....	1LMKK	6.75      1.40	95.00
		<u>USOC</u>	Monthly Rate	Nonrecurring Charge
7.	Each additional point of termination of a local channel in same building <sup>/1/</sup>			
	Type 422 .....	M8XF3,M8X	\$2.00	\$80.00
	Type 423 .....	M8XG3,M8X		
		2SE	1.25	65.00
	Type 425 .....	MUXJ3	4.00	65.00
	Type 435 .....	M8XK3	2.25	95.00
8.	Bridging Charge, (multi-point service), per bridged channel .....	BQ7	5.95	---

/1/ Obsolete - applicable to existing installations at existing locations - subject to maximum capacity of available facilities.



**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****G. Conditioning Options Available for Types 314B, 314C, 343, 420 and 422**

The types and description of the available conditioning options, at rates found in this section, are as follows:

1. Type C - Conditioning provides assured transmission quality for frequency response and envelope delay distortion as specified below.
  - a. Type C1 - For a two point or multi-point channel:
    - The envelope delay distortion shall not exceed:  
between 1000 and 2400 Hz, a maximum difference of 1000 microseconds
    - The loss deviation with frequency (from 1000 Hz, reference) shall not exceed:  
between 1000 and 2400 Hz, -1 dB to +3 dB  
between 300 and 2700 Hz, -2 dB to +6 dB
  - b. Type C2 - For a two-point or multi-point channel:
    - The envelope delay distortion shall not exceed:  
between 1000 and 2600 Hz, a maximum difference of 500 microseconds  
between 600 and 2600 Hz, a maximum difference of 1500 microseconds  
between 500 and 2800 Hz, a maximum difference of 3000 microsecond
    - Frequency response shall not exceed:  
between 500 and 2800 Hz, 1 to +3 dB  
between 300 and 3000 Hz, 2 dB to +6 dB  
(+ means more loss)

On a three-point or four-point channel, conditioning in accordance with above specifications is applicable only between one station (that designated by the customer as the control point) and each of the other two or three stations.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****G. Conditioning Options Available for Types 314B, 314C, 343, 420 and 422 (cont'd)**

1. Type C - Conditioning provides assured transmission quality for frequency response and envelope delay distortion as specified below. (cont'd)

- c. Type C4 - For a two-point, three-point or four-point channel

- The envelope delay distortion shall not exceed:
  - between 1000 and 2600 Hz, a maximum difference of 300 mcs
  - between 800 and 2800 Hz, a maximum difference of 500 mcs
  - between 600 and 3000 Hz, a maximum difference of 1500 mcs
  - between 500 and 3000 Hz, a maximum difference of 3000 mcs
- The loss deviation with frequency (from 1000 Hz, reference) shall not exceed:
  - between 500 and 3000 Hz, 2 dB to +3 dB
  - between 300 and 3200 Hz, 2 dB to +6 dB
  - (+ means more loss)

On a three-point or four-point channel, conditioning in accordance with above specifications is applicable only between one station (that designated by the customer as the control point) and each of the other two or three stations.

- d. Type C5 - For a two-point channel

- The envelope delay distortion shall not exceed:
  - between 1000 and 2600 Hz, a maximum difference of 100 mcs
  - between 600 and 2600 Hz, a maximum difference of 300 mcs
  - between 500 and 2800 Hz, a maximum difference of 600 mcs
- The loss deviation with frequency (from a 1000 Hz reference) shall not exceed:
  - between 500 and 2800 Hz, 0.5 dB to +1.5 dB
  - between 300 and 3000 Hz, 1.0 dB to 3.0 dB
  - (+ means more loss)

2. Type D1 High Performance Data Conditioning for a two-point channel not arranged for switching<sup>/1/</sup>

- a. Signal to C-Notched Noise Ratio 28 db
  - b. Non-Linear distortion:
 

Signal to second order distortion	35 db
Signal to third order distortion	40 db

When the channel equipped with this conditioning is utilized for voice communications, the Company does not undertake to represent nor guarantee that the channel will be suitable for such transmission.

/1/ Available only where facilities and conditions permit.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****G. Conditioning Options Available for Types 314B, 314C, 343, 420 and 422 (cont'd)**

## 3. Channel Conditioning – Rates

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
a. Type C1			
Two-point not arranged for switching, per station.....	P2W	\$ 6.90	\$75.00
Two-point arranged for switching to another two-point channel, per station .....	P2X	12.40	75.00
Multi-point channel, per station .....	P3G	6.90	75.00
b. Type C2			
Two-point not arranged for switching, per station.....	P3HC2	27.60	75.00
Two-point arranged for switching, per station.....	P3J	41.40	75.00
Multi-point channel, per station .....	PH9	20.70	75.00
c. Type C4			
Two-point channel, per channel.....	P4G	96.60	150.00
Three or four point channel, per station.....	6DU	62.10	75.00
d. Type C5			
On a two-point channel not arranged for switching, per station .....	UHD	69.00	75.00
e. Type D1 <sup>/1/</sup>			
Two-point channel not arranged for switching, per channel.....	QHA	16.55	150.00

/1/ Available only where facilities and conditions permit.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****H. Foreign Serving Office and Centrex Station Service (with switching equipment located on Company premises)**

1. This service is furnished to a maximum of two serving offices (in addition to the serving office in which the exchange service is furnished) within the exchange or metropolitan exchange in which the exchange or Centrex service is furnished.
2. Service is furnished on the condition that additional costs to the Company may be necessary to provide a type of signaling suitable for operation with the serving office from which service is furnished, or to provide, at the customer's request, a type of signaling other than the type the Company would elect to furnish. In such cases, additional charges shall apply.
3. Customers, for the exchange or Centrex portion of the service, are subject to Local Exchange Service or Centrex C.O. Service charges, rules and regulations; and for the private line portion of the service, are subject to the private line charges, rules and regulations in this Guidebook.
4. Off-premises extensions are provided only where facilities and conditions permit. Type 315 (1LLRY) and (1LLHY) local channel rates and charges apply for off-premises extensions.
5. Rates

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Point to Termination in one foreign serving office <sup>/1,2/</sup> .....	T21FS,E1B	---	\$125.00	
Point of Termination in two foreign serving offices <sup>/2,3/</sup> .....	T1SFS	\$11.00	250.00	
Interoffice Channel Terminal, each (two required per interoffice channel) .....	PMNFS,E96	660.00	---	(l)

/1/ In addition, private line charges apply between the serving office of the customer premises and the serving office from which the local exchange or Centrex service is provided. Local channel charges do not apply to the main station of local exchange service but do apply to Centrex main stations and extensions.

/2/ Local channel charges do not apply when the exchange service terminates in a channel port of an Access Advantage Plus Service.

/3/ Local channel charges do not apply to the main station and one extension of local exchange service but do apply to Centrex main stations and extensions.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****I. Foreign Exchange and Foreign Exchange Centrex Station Service (with switching equipment located on Company premises)**

1. This service is furnished to a maximum of two exchanges (in addition to the exchange in which the exchange service is furnished). The exchange service connection is provided from one exchange only.
2. Service is furnished on the condition that additional costs to the Company may be necessary to provide a type of signaling suitable for operation with the exchange from which service is furnished, or to provide, at the customer's request, a type of signaling other than the type the Company would elect to furnish. In such cases, additional charges shall apply.
3. Customers, for the exchange portion of the service, are subject to exchange charges, rules and regulations; and for the private line portion of the service, are subject to the private line charges, rules and regulations of this Guidebook.
4. Off-premises extensions are provided only where facilities and conditions permit. Type 315 (1LLAY) Local Channel charges apply for off-premises extensions.
5. Reversible Operation and Intercept Arrangement
  - a. A charge of \$48.30 per month (FXV) applies when a channel is arranged for reversible operation and includes Serving Office switching equipment and switching keys. The control channel at each service point is required at charges as specified in 'Sub-Voice Grade Service – Series 200', preceding. When only one terminal is in a Bell exchange, the charge is \$24.20.
  - b. An intercept arrangement is available to permit calls made to a foreign exchange number to be received at the customer's location in the foreign exchange during the period the service is in the reversed condition (37H) \$2.30.<sup>/1/</sup>

/1/ Local channel charges are also applicable.

**VOICE GRADE SERVICE - SERIES 300 AND 400 (cont'd)****I. Foreign Exchange and Foreign Exchange Centrex Station Service (with switching equipment located on Company premises) (cont'd)**

## 6. Rates

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Point of Termination in one foreign exchange between exchanges 0 to 20 miles apart .....	T21	\$ 23.00	\$380.00	
between exchanges over 20 miles apart.....	T22	85.50	380.00	
Point of Termination in two foreign exchanges <sup>/1,2/</sup> .....	T1S	115.80	760.00	
Interoffice Channel Terminal each, (two required per interoffice channel).....	PMNFX E1D	1,645.00	---	(I)
Interexchange Channel terminal, (2 required per interexchange channel) .....	P1NF4 E1C	1,974.00	---	(I)
Interoffice Channel, each V-H mile or fraction thereof, per channel .....	1LHBS 1LXRS	7.00	---	
Interexchange Channel, V-H, or fraction thereof, per channel .....	1LHU4 1LXQ4			
0 to 150 miles, each mile.....		5.90	---	
Each additional mile over 150 .....		4.30	---	

/1/ Local channel charges do not apply to the main station and one extension, but do apply to Centrex main stations and extensions.

/2/ Local channel charges do not apply when the exchange service terminates in a channel port of an Access Advantage Plus Service.

(D)

(D)



**LOCAL AREA DATA SERVICE****A. Regulations**

In addition to the Regulations specified previously in this Guidebook, the following regulation applies to these services:

Provision of this service does not contemplate connection to the public switched message network.

**B. Description of Service**

Local Area Data Service will provide subject to availability of facilities, channels suitable for baseband transmission of data signals between two points on the same premises or different premises within the same serving office area. Service is limited to points that are not more than six cable route miles apart, as determined by the Company, using normal cable routing between the points to be served. Service is offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Bell System Technical Reference.

1. Local Area Data Service channels require use of nonloaded cable facilities. In the event that only loaded facilities are available, the Company will at the customer's request, deload facilities as specified under the Special Construction provisions as provided in Part 15, Section 1, paragraph D.4.
2. A channel is available as follows:
  - Type 980 Two-wire interface with effective two-wire facilities for use with customer-premises equipment with the transmission characteristics specified in B.3 following and the applicable Bell System Technical Reference.
  - Type 981 Four-wire interface with effective four-wire facilities for use with customer-premises equipment with the transmission characteristics specified in B.3 following and the applicable Bell System Technical Reference.
3. Applicable jacks used to connect this service can be found in Section 13 of the Access Service Tariff.
4. Transmission specifications for Types 980 and 981 are dependent upon the route length of the facilities utilized to provide the service as follows:

<u>Maximum End-to-End Facility Length in Route Miles</u>	<u>Maximum Insertion Loss at 1000 Hz, in dB<sup>/1/</sup></u>
1	9.0
2	13.5
3	17.0
4	20.0
5	23.0
6	25.5

/1/ Insertion loss is referenced to 135 ohm resistive terminations at each end.

**LOCAL AREA DATA SERVICE (cont'd)****C. Rates**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Two-point service, same building, same premises <sup>/1/</sup>			
- Type 981 .....	1LMGB,1L6GB	\$13.00	\$127.00 <sup>/2/</sup>
	<u>USOC</u>	<u>First 1/10 Mile</u>	<u>Each add'l 1/10 Mile</u>
2. Two-point service, same building, same premises <sup>/1/</sup>			<u>Nonrecurring Charge</u>
- Type 980 .....	1LMGC	\$ 9.00	\$127.00 <sup>/2/</sup>
- Type 981 .....	1LMGC,1L6GC	17.75	127.00 <sup>/2/</sup>
	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Local channel, each per termination on a premises; different building, different premises, for two-point service			
- Type 980 .....	1LMGJ	\$14.25	\$170.00 <sup>/2/</sup>
- Type 981 .....	1LMGJ,1L6GJ	28.50	170.00 <sup>/2/</sup>

/1/ Obsolete - applicable to existing installations at existing locations - subject to maximum capacity of available facilities.

/2/ Nonrecurring charge applies to each point of termination.

**VOICE COMMUNICATING EQUIPMENT****A. Signaling Arrangements**

1. Signaling Options per point of termination for the capability to accommodate signaling on private line service utilizing Type 420, 422, 423, 425 and 435 local channels.<sup>/1/</sup>

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
a. Interexchange			
- Manual <sup>/2/</sup> .....	J1B	\$14.50	\$70.00
- Automatic <sup>/3/</sup> .....	J1A	12.25	70.00
b. Intraexchange			
With Interoffice Channel			
- Manual <sup>/2/</sup> .....	J1B	11.60	70.00
- Automatic <sup>/3/</sup> .....	J1A	6.25	70.00
Without Interoffice Channel			
- Manual <sup>/2/</sup> .....	J1BWO	4.90	70.00
- Automatic <sup>/3/</sup> .....	J1AWO	6.00	70.00

2. Rules and Regulations

- a. The type A, B and C Loop Signaling Arrangements for station ports of a premises PBX (or similar) switching system and the E&M Signaling Arrangement for tie-lines are furnished for grandfathered and registered PBXs in accordance with Part 68 of the FCC Rules and Regulations.
- b. For connections to registered PBX (or similar) equipment, the customer must specify the equipment capability of their registered equipment.
- c. Customers with grandfathered customer-premises PBX (or similar) equipment may, at their option:
  1. Continue to provide their own off-premises station signaling capability and utilize only the type 428 channel.
  2. Request that off-premises station signaling capability be provided by the Company. Where this option is selected, the customer must specify his equipment signaling capability.

/1/ Signaling options for Type 420 and 422 local channels are obsolete-applicable to existing installations at existing locations for existing customers.

/2/ Manual signaling for multi-point channels - available for Type 425 and 435 only.

/3/ Automatic signaling for multi-point channels is obsolete-applicable to existing installations at existing location for existing customers.

**VOICE COMMUNICATING EQUIPMENT (cont'd)****A. Signaling Arrangements (cont'd)**

## 2. Rules and Regulations (cont'd)

- d. Based on information provided by the customer, the Company will furnish the appropriate signaling arrangement. Where the requested signaling arrangement is furnished and determined to be of a lesser signaling range than required, and the customer requests the Company to furnish another signaling arrangement, such request will be treated as a new request for service and appropriate nonrecurring charges will apply.

3. Signaling Options per point of termination, limited to two-point service only, for the capability to accommodate signaling on private line service utilizing Type 400 Local Channels indicated below.

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
a. Interexchange E & M Type Signaling			
- Type 423 <sup>/1/</sup> .....	SLM23	\$13.75	---
- Type 424.....	SLM24	9.25	\$70.00 <sup>/2/</sup>
- Type 425 <sup>/1/</sup> .....	SLM25	19.50	---
Loop Signaling Options per Local Channel on Type 428 when associated with station ports of a premises switching system			
Type A, where premises switching system is capable of operation over loops with resistance in the range of 0-199 ohms .....	SALAS	6.10	\$70.00 <sup>/2/</sup>
Type B, where premises switching system is capable of operation over loops with resistance in the range of 200-899 ohms .....	SAUBS	3.95	\$70.00 <sup>/2/</sup>
Type C, where premises switching system is capable of operation over loops with resistance in the range of 900 ohms or more.....	SAYCS	2.00	\$70.00 <sup>/2/</sup>

/1/ Obsolete - applicable to existing installations at existing locations for existing customers.

/2/ Nonrecurring Charge applies only if signaling option is installed subsequent to initial installation of the local channel.

**VOICE COMMUNICATING EQUIPMENT (cont'd)****A. Signaling Arrangements (cont'd)**

## 3. (cont'd)

## b. Intraexchange

	<u>USOC</u>	Monthly Rate Without <u>Interoffice</u>	<u>USOC</u>	Monthly Rate With <u>Interoffice</u>	Nonrecurring <u>Charge</u>
E & M Type Signaling					
Type 423 <sup>/1/</sup> .....		---	SLM23	\$12.75	---
Type 424.....	SLMW4	\$4.30	SLM24	5.80	\$70.00 <sup>/2/</sup>
Loop Signaling, where customer-premises equipment is capable of operation over loops with resistance of 900 ohms or more <sup>/1/</sup>					
Type 423.....	SLLW3	2.40	SLL23	3.30	---

/1/ Obsolete - applicable to existing installations at existing location for existing customers.

/2/ Nonrecurring Charge applies only if signaling option is installed subsequent to initial installation of the local channel.

**VOICE COMMUNICATING EQUIPMENT (cont'd)****A. Signaling Arrangements (cont'd)**

## 3. (cont'd)

## b. Intraexchange (cont'd)

	<u>USOC</u>	Monthly Rate Without <u>Interoffice</u>	<u>USOC</u>	Monthly Rate With <u>Interoffice</u>	<u>Nonrecurring Charge</u>
Loop Signaling Options per Local Channel or Served Direct Service Channel on Type 428 when associated with station ports of a premises switching system					
Type A, where premises switching system is capable of operation over loops with resistance in the range of 0-199 ohms.....	SALAL	\$5.20	SALAW	\$5.35	\$70.00 <sup>/1/</sup>
Type B, where premises switching system is capable of operation over loops with resistance in the range of 200-899 ohms.....	SAUBL	5.05	SAUBW	4.00	70.00 <sup>/1/</sup>
Type C, where premises switching system is capable of operation over loops with resistance in the range of 900 ohms or more.....	SAYCL	2.00	SAYCW	4.00	70.00 <sup>/1/</sup>

The DC resistance specification does not imply a guaranteed end to end DC continuity. The customer can expect to be provided a loop meeting the same limits as the normal central office loop, i.e., not exceeding 1300 ohms, exclusive of 200 ohm maximum terminal equipment resistance.

/1/ Nonrecurring charge applies only if signaling option is installed subsequent to initial installation of the local channel.

**ALTERNATE USE OF PRIVATE LINE SERVICE CHANNELS****A. Regulations**

Voice Grade Channels furnished the Company in connection with Series 300 Service may be used on an alternate basis with either Voice Grade Service or Sub-Voice Grade Service.

Half duplex Sub-Voice Grade Services may be used on an alternate basis with other Sub-Voice Grade Service.

During alternate use the regulations are the same as those set forth in Part 15, Section 1, except as otherwise specified herein.

The customer may switch at will from one type of operation to another, but only one type of operation can be used at a time.

Alternate use is available on two-point service. Service involving more than two points will be permitted where facilities permit.

**B. Rates**

Rates and charges are the highest of the regular private line charges applicable to the channels arranged for alternate use as specified in this Section of the Guidebook plus the following additional charges as applicable.

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Voice Grade Services			
a. With channels for remote metering supervisory control and miscellaneous signaling purposes			
Channel Termination, per station including switching key .....	3AM	\$1.80	\$9.00
Including connection of customer-provided Punch-card equipment, per station (Includes one switching key).....	TYM, TYU	29.80	---

**ALTERNATE USE OF PRIVATE LINE SERVICE CHANNELS****B. Rates (cont'd)**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Voice Grade Services (cont'd)			
b. For data transmission up to 150 Baud per data transmission station connected for alternate. Includes key to transfer between the telephone termination .....	37R,GHH	\$29.80	---
c. With Switched Access Service, the Switched Access will operate only on a two-Point Basis <sup>/1/,2/</sup>			
An additional Voice Grade Local Channel as specified in 'Voice Grade Service – Series 300 and 400' is required			
Alternate Switching to go from Switched Access operation to Voice Grade operation and from voice Grade to Switched Access operation applies at each of the two service points arranged or alternate use. ....	36B	7.50	\$11.00
2. Sub-Voice Grade Services			
a. A rate of \$1.80 (TYX)(TYO)(TYW) and a nonrecurring charge of \$9.00 apply for each station equipped for alternate use (includes a switching key).			
b. A rate of \$29.80 per month (TYU)(TYM)(TYK) applies where the alternate use include the connection of customer-provided punched card equipment, per station (includes a switched key).			
c. Special equipment and arrangement charges will apply for the additional facilities required for alternate use to more than two points.			

/1/ Channels are furnished subject to the condition that additional cost to the Company may be necessary to provide a type of signaling suitable for operation with the exchange from which service is furnished, or, at the customer's request, a type of signaling other than the type the Company would elect to furnish. In such cases, additional charges based upon the cost incurred shall apply.



**SERVED DIRECT SERVICE****A. Regulations**

1. This offering is for specified two-point intraexchange channel types between different buildings on different premises which do not route through a serving office.
2. Served Direct Channel Charges apply:
  - a. When it is the economic decision of the Company to provide served direct facilities<sup>/1/</sup>
  - b. When there is a minimum billing of 15 channels per each two-point configuration
  - c. When the maximum airline distance between the two premises is one mile or less
  - d. When the customer considers it economically feasible to change to Served Direct Service
3. A customer may request this service offering when it is not the economic decision of the Company; however, in such case, Special Construction Charges as specified in Part 15, Section 1, paragraph D.4 shall apply in addition to the rates and charges found in this section.

Where a customer requests a quotation for Special Construction Charges associated with Served Direct Service and then elects not to subscribe to the service, a Quotation Charge for developing the charges shall apply. This charge will include all developmental hours associated with the design and preparation of an individual request.

4. Termination Liability Contracts where applicable in a customer-initiated request for Served Direct Service would be equal to the costs incurred for rearrangements of existing facilities and/or construction of new facilities as appropriate, less net salvage. Installed cost includes any expense associated with this particular case.
5. The service is limited to intraexchange channels, but can involve Served Direct Service between two separate Serving Office Areas.

**B. Rates**

Between Different Buildings on Different Premises		Monthly Rate First 1/10 Mile	Monthly Rate Additional 1/10 Mile	Nonrecurring Charge <sup>/2/</sup>	
	<u>USOC</u>		<u>USOC</u>		
Type 428 .....	1LMKQ	\$6.00	11LVJQ	\$1.00	\$70.00

(D)  
|  
(D)  
(C)

/1/ A Basic Termination Liability Contract may be applicable in this case if the Company determines the facilities are not reusable. The contract period will normally be 36 months, and the amount will be reduced by 1/36th for each month in service.

/2/ Nonrecurring charge applies to each point of termination.

(D)

(D)

(D)

(D)