

**CHANNELS**

**Service Availability**

Effective June 30, 2021, Analog Private Line Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue these services on or after June 30, 2024.

The following services are covered by this *Availability* paragraph: Series 1000 – Metallic and Telegraph, Series 2000 – Direct Analog, Series 3000 – Direct Analog, Series 9000 – Miscellaneous, Customer Operating Center Service, and Other Features and Arrangements (Conditioning, Signaling, Duplicate Master Bridging Arrangement, and Bells and Lights Civil Defense Warning Equipment).

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**Series 1000 - Metallic and Telegraph**

General

Series 1000 services include channels for low-speed data transmission, supervisory control, remote metering and miscellaneous signaling purposes at rates up to 150 baud. These channels are not suitable for the transmission of alternating current tones.

Channels are furnished for intra-exchange or inter-exchange service on a two-point or multipoint basis as indicated below.

Series 1000 channels (including channels created from them by the customer) are not permitted to be connected with facilities furnished for exchange service or toll service.

Station equipment may be provided by the customer subject to the provisions in General preceding.

Allowance for Interruptions

No credit is allowed for interruptions to service of less than 30 minutes. Interruptions of 30 minutes or over are credited to the customer at the proportionate monthly charge in half hour multiples for each half hour or major fraction thereof of interruption.

Description

Type 1011 is a two-wire interface with two-wire facilities suitable for signaling at speeds not to exceed 30 baud; furnished for remote metering, supervisory control and miscellaneous signaling purposes. Available for intra-exchange two-point or three-point service and inter-exchange two or three-point service to a contiguous Exchange.

Type 1012 is a two-wire interface with two-wire facilities suitable for low speed signaling not to exceed 30 baud; furnished for remote metering, supervisory control and miscellaneous signaling purposes. Available for intra-exchange, for inter-exchange two or three-point service to non-contiguous Exchanges or four point or more inter-exchange service to all other Exchanges.

**CHANNELS (cont'd)**

**Series 1000 - Metallic and Telegraph (cont'd)**

Description (cont'd)

Applicable to Types 1011, 1012 (30 baud channels)

Service is furnished subject to the availability of facilities and construction of facilities expressly for this purpose is not contemplated.

It is expressly declared that metallic inter-office and inter-exchange facilities for these services are in decreasing supply and the Company is not obligated to continue to make such metallic facilities available.

Multipoint service for Type 1012 service is limited to a maximum of 26 points served from a total of no more than three different serving central offices and may be further limited by the transmission distance limitations of customer provided terminal equipment.

Additional terminations furnished in the same building or on the same continuous property are not subject to the limits specified in the paragraph preceding.

These channels permit unidirectional transmission of contact closure or voltage or current transitions at speeds up to 15 bits per second. The maximum direct current voltage shall not exceed 270 volts conductor to conductor or 135 volts from either conductor to ground. Alternating current voltages shall be limited to a value of 62.5 MA (70.7 volts peak) conductor to conductor or either conductor to ground, and the shortest signaling element shall not be less than 33MS (.033 seconds). The direct and alternating current voltage sources shall limit the maximum current, conductor to conductor or either conductor to ground, to a value not to exceed 50 MA (.05 ampere) for Type 1011 channels and 20 MA (.02 ampere) for Type 1012 channels.

**CHANNELS (cont'd)**

**Series 1000 - Metallic and Telegraph (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
A. Intra-exchange			
1. Local Distribution Channel, each			
Type 1011 /2UC/	\$ 89.00 <sup>/1/</sup>	\$40.00 <sup>/1/</sup>	\$9,022.00 (I)
Type 1012 /2UC/	93.00 <sup>/1/</sup>	44.00 <sup>/1/</sup>	9,022.00 (I)
2. Inter-office Channel Mileage, per mile or fraction			
All Types /1L31S/1LY8S/1L1NS/1L68S/	-	-	9.35
3. Inter-office Channel Mileage Termination, each			
All Types /24E/	-	-	4.50
4. Building Channel Termination, each			
Type 1011 /267++/2UA/	150.00 <sup>/1/</sup>	44.00 <sup>/1/</sup>	5.50
Type 1012 /267++/2UA/	150.00 <sup>/1/</sup>	44.00 <sup>/1/</sup>	5.50
5. Continuous Property Channel, in addition to 4. above			
When the distance between buildings is 10,000 feet or less			
All Types, each /1L311/1LY81/ /1L1N1/1L681/	-	-	10.50
When the distance between buildings is greater than 10,000 feet			
All Types, each /1L312/1LY82/1L1N2/1L682/	-	-	31.35

/1/ Premises Work Charges as specified in Part 3 apply.

**CHANNELS (cont'd)**

**Series 1000 - Metallic and Telegraph (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
<b>B. Inter-exchange</b>			
1. Inter-exchange Channel Mileage, per airline mile or fraction			
Types 1011 and 1012 /1L314/			
0 to 25	-	-	\$10.45
26 miles and over	-	-	8.70
2. Inter-exchange Channel Mileage Termination, each (based on Inter-exchange Channel length)			
Type 1011			
0 to 25 /01N/	-	-	7.00
26 miles and over /03N/	-	-	7.00
Type 1012			
0 to 25 /01N/	-	-	7.00
26 miles and over /03N/	-	-	7.00
3. Local Distribution Channel, each			
Type 1011 /2UC/	\$235.00 <sup>/1/</sup>	\$170.00 <sup>/1/</sup>	9,022.00 (I)
Type 1012 /2UC/	295.00 <sup>/1/</sup>	225.00 <sup>/1/</sup>	9,022.00 (I)
4. Inter-office Channel Mileage, per mile or fraction			
All Types			
/1L31P/1L68P/1LY8P/1L1NP/	-	-	9.35
5. Inter-office Channel Mileage Termination, each			
All Types /24E/	-	-	4.50

/1/ Premises Work Charges as specified in Part 3 apply.

**CHANNELS (cont'd)**

**Series 1000 - Metallic and Telegraph (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
B. Inter-exchange (cont'd)			
6. Building Channel Termination, each			
Type 1011 /2UA/	\$150.00 <sup>/1/</sup>	\$44.00 <sup>/1/</sup>	\$5.50
Type 1012 /2UA/	150.00 <sup>/1/</sup>	44.00 <sup>/1/</sup>	5.50
7. Continuous Property Channel, in addition 6. above			
When the distance between the buildings is 10,000 feet or less			
Types 1011 and 1012 /1L311/1L1N1/1L681/1LY81/	-	-	10.50
When the distance between the buildings is greater than 10,000 feet			
Types 1011 and 1012 /1L312/1L1N2/1L682/1LY82/	-	-	31.35
C. Move Charge			
Types 1011 and 1012	59.00 <sup>/1/</sup>	<sup>/1/</sup>	-
D. Retermination Charge	59.00 <sup>/1/</sup>	<sup>/1/</sup>	-

/1/ Premises Work Charges as specified in Part 3 apply.

**CHANNELS (cont'd)**

**Series 2000 - Direct Analog**

General

Series 2000 services include channels for voice transmission of approximate bandwidth of 300-3000 Hz.

Channels are furnished for intra-exchange or inter-exchange service on a two-point or multipoint basis as indicated below. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors.

The connection of private network channels, such as tie lines, to channels accessing the public switched network may be permitted. Transmission performance is not guaranteed on such connections.

Signaling options required to arrange Series 2000 channels for suitable signaling are available as specified in Other Features and Arrangements in this Section.

Series 2000 Channels may be arranged for alternate use as specified in Other Features and Arrangements of this Section.

"Effective two-wire facilities" may be composed of two-wire metallic and/or four-wire metallic and/or carrier segments; "four-wire facilities" are composed entirely of four-wire metallic and/or carrier segments.

The 1000 Hz loss objective range specified refers to the total channel offering (end-to-end) and indicates that the engineered objective loss will fall within that range at the discretion of the Company depending upon available facilities and the applicability of short-haul or long-haul engineering designs. These specifications do not include gains or losses present in customer-provided equipment.

The Company reserves the right to revise these objectives and other technical parameters as described herein.

**CHANNELS (cont'd)****Series 2000 - Direct Analog (cont'd)**

## Allowance for Interruptions

No credit is allowed for interruptions to service of less than 30 minutes. Interruptions of 30 minutes or over are credited to the customer at the proportionate monthly price in half hour multiples for each half hour or major fraction thereof of interruption.

Message toll telephone service furnished at a customer's request when his dedicated communications service is interrupted, is charged at message toll telephone prices.

## Descriptions

Type 2001 is a two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities engineered for a 1000 Hz loss objective of 0 to 16dB. Furnished for dedicated communications telephone, remote intercommunicating line service, remote metering, supervisory control or miscellaneous signaling service. Available for two-point or multipoint service, in intra-exchange or inter-exchange.

Type 2002 is a two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities; furnished for remote operation of mobile radiotelephone systems. Available for two-point or multipoint service, intra-exchange or inter-exchange.

Type 2006A is a central office terminal furnished for connection to Local Exchange Service. Available for inter-exchange Foreign Exchange Service where two exchanges are located in the same building.

Type 2006B is a central office terminal furnished for connection to Local Exchange Service. Available for inter-exchange Foreign Exchange service and intra-exchange Foreign Central Office Service.

Type 2011 is a two-wire interface with effective two-wire facilities engineered for off-premises extension use with Exchange Service and capable of a 1000 Hz loss objective of 0 to 8 0dB. Available for intra-exchange or inter-exchange service.

Type 2012 is a central office terminal furnished for connection to Exchange Service for Centrex off-premises main station line use. Available for inter-exchange or intra-exchange service when the station is located in a different central office serving area from the Centrex switching unit.

**CHANNELS (cont'd)****Series 2000 - Direct Analog (cont'd)**

## Descriptions (cont'd)

Type 2014 is a two-wire interface with effective two-wire facilities furnished for PBX (or similar) off-premises main and extension stations capable of operating over loops with resistance up to 1300 ohms for intra-exchange or inter-exchange service with Type A, B or C Signaling Arrangements.

Type 2017 is a two-wire interface with effective two-wire facilities engineered for off-premises extension use with Wide Area Tele-communications Service and capable of a 1000 Hz loss objective of 0 to 8dB. Available for intra-exchange or inter-exchange service.

Type 2021 is a two-wire or four-wire transmission interface with four-wire facilities for tie line use between PBX's (or similar) or the PBX (or similar) end of a PBX to Centrex C.O. tie line; for two-point service intra-exchange or inter-exchange with E&M Signaling Arrangement for dial type.

Type 2026 is a central office terminal furnished for tie line use with Centrex C.O. systems or the Centrex end of a Centrex C.O. to a PBX (or similar) tie line for two-point service. Available for intra-exchange or inter-exchange service.

Type 2027 is a central office terminal furnished to connect the central office end of a two point dedicated communications service circuit to other C.O. services, such as Centrex located in the same Central Office.

Type 2040 is a two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 8dB. Furnished for Telephone Answering Service use for the extension of a patron's service to an answering location when concentrator - identifier equipment is not utilized. Available for intra-exchange or inter-exchange service.

Type 2041A is a central office terminal furnished for Telephone Answering Service use for the termination of a Patron's service on a concentrator located on Company premises when both are in the same central office. Available for intra-exchange service.

Type 2041B is a central office terminal furnished for the termination of a patron's service on a concentrator when the patron's service and the concentrator are located in different central offices. Available for intra-exchange or inter-exchange service.



**CHANNELS (cont'd)****Series 2000 - Direct Analog (cont'd)**

## Descriptions (cont'd)

Type 2043A is a two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 4 dB; also transmits signaling capability between the concentrator and the identifier. Furnished for Telephone Answering Service concentrator-identifier use between a concentrator unit located at the Company premises and an identifier unit located at the Telephone Answering Service premises. Available for intra-exchange or inter-exchange service.

Type 2043B is a two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 4 dB; furnished for Telephone Answering Service concentrator - identifier use between a concentrator unit located at one Telephone Answering Service premises or Company premises and an identifier unit located on the premises of the Telephone Answering Service. Available for intra-exchange or inter-exchange service.

Type 2942 is a two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 4dB. Furnished for Telephone Answering Service use to extend patron lines to concentrator equipment located on Telephone Answering Service premises. Available for intra-exchange or inter-exchange service.

## Provisions

Applicable to Type 2001 (Dedicated Communications Telephone)

1. When furnished for multipoint service, a Multipoint Service monthly rate applies for each Local Distribution Channel bridged on the same circuit, in addition to all other applicable charges for the channels.
2. These channels are not suitable for switching and/or tandem operations to the public switched network or other dedicated communications services.
3. Dedicated Communications Telephone service may terminate in telephone instruments, or Key Telephone Systems as the customer desires.

**CHANNELS (cont'd)**

**Series 2000 - Direct Analog (cont'd)**

Provisions (cont'd)

Applicable to Type 2001 (Remote Metering, Supervisory Control or Miscellaneous Signaling Purposes)

1. Station wiring other than any equipment necessary for the suitable termination of the channel on the customer's premises, shall be provided by either the customer or the Company.
2. These channels (including channels created from them by the customer) are not permitted to be connected with facilities furnished for Exchange Service or Message Toll Service, or with facilities furnished for any other classification of dedicated communications service or channel except that any such channel may be connected with any channel of the same grade furnished by the Company.

Applicable to Type 2002 (Mobile Radiotelephone)

1. When these channels are furnished for multipoint service, a Multi-point Service monthly rate applies for each Local Distribution Channel bridged on the same circuit, in addition to all other applicable charges for the channels.
2. Volume Limiter

Where the input or output of the customer's equipment exceeds the limitations established by the Company, a volume limiter to control the maximum gain is required and will be furnished under provisions in General preceding.

Applicable to Types 2006B and 2012 (Foreign Exchange Service and Foreign Central Office Service)

1. Foreign Exchange service is provided as specified in Part 4.
2. Foreign Central Office service is provided as specified in Part 4.

**CHANNELS (cont'd)**

**Series 2000 - Direct Analog (cont'd)**

Provisions (cont'd)

Applicable to Types 2011 and 2017 (Off-premises Extensions)

1. When an extension station is located in a different exchange area from the main station, an Inter-exchange Channel and Channel Terminals are required to connect the exchange areas. Within the distant exchange, one Local Distribution Channel is required to connect the extension station to the serving central office.
2. For an extension station located in the same exchange area as the main station, see Part 4.

Applicable to Type 2014 (PBX (or similar) Off-Premises Main or Extension Station Lines)

1. Requires Type A, B or C Signaling Arrangements as provided for in Other Features and Arrangements in this Section.
2. For PBX (or similar) main or extension stations located in the same exchange area as the PBX, see Other Features and Arrangements in this Section.

Applicable to Type 2021 (PBX (or similar) Tie Lines)

An E&M Signaling Arrangement as provided for in Other Features and Arrangements of this Section is required for each Tie Line operating in a dial repeating mode.

Applicable to Type 2026 (Centrex C.O. Tie Line Terminations)

One Centrex C.O. Tie Line Termination is required for connection to each Centrex C.O. switching unit.

Applicable to Type 2027

1. Type 2027 is a central office terminal furnished for the Centrex end of a two point dedicated communications service circuit.
2. One Type 2027 central office terminal is required per Type 2001 circuit for connection to the Centrex C.O.

**CHANNELS (cont'd)**

**Series 2000 - Direct Analog (cont'd)**

Provisions (cont'd)

Applicable to Types 2040, 2041A, 2041B and 2942 (Telephone Answering Service Patron Lines)

Telephone Answering Service Patron Lines are provided as specified in Part 4.

Applicable to Types 2043A and 2043B (Concentrator-Identifier Trunks)

Furnished to connect a concentrator located on Company premises with an identifier located on Telephone Answering Service premises. Type 2043A Local Distribution Channels provide one voice and up to three signaling channels. Type 2043B Local Distribution Channels provide one voice only channel. One Local Distribution Channel (Type 2043A and/or 2043B) is required between the serving central office and The Telephone Answering Service premises for each voice channel required to satisfy calling volumes. When the Company Central Office where the concentrator is located and the serving central office of the Telephone Answering Service is different one Inter-office Channel is required for each channel (voice or signaling) activated.

**CHANNELS (cont'd)**

**Series 2000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
A. Intra-exchange			
1. Local Distribution Channel, each			
Type 2001 /1SES+ /J5Y++ /DUX++/	\$195.00 <sup>/1/</sup>	\$125.00 <sup>/1/</sup>	\$ 40.25
Type 2002 /1SES+ /	195.00 <sup>/1/</sup>	125.00 <sup>/1/</sup>	35.10
Type 2021 /1SES+ /	290.00 <sup>/1/</sup>	215.00 <sup>/1/</sup>	72.00
Type 2043A /LCES+ /	485.00 <sup>/1/</sup>	370.00 <sup>/1/</sup>	200.60
Type 2043B /LCLS+ /	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	50.15
2. Centrex C.O. Tie Line Termination, each			
Type 2026 /PMN/	210.00	155.00	16.50
3. Inter-office Channel Mileage, each mile or fraction			
All Types	-	-	3,169.00 (l)
4. Inter-office Channel Mileage Termination, each			
All Types /2LH/ /3LS/	-	-	18.00
5. Building Channel Termination, each			
Type 2001 /2SES+ /4SES+ /N8X++ /M8X++ /MUX++ /00X++ /	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	10.00
Type 2002 /2SES+ /4SES+ /	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	10.00
Type 2021 /2SES+ /	230.00 <sup>/1/</sup>	115.00 <sup>/1/</sup>	27.85

/1/ Premises Work Charges as specified in Part 3 apply.

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**CHANNELS (cont'd)**

**Series 2000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
A. Intra-exchange (cont'd)			
6. Continuous Property Channel, in addition to 5. preceding			
a. When the distance between buildings is 10,000 feet or less.			
Type 2001, each /1LPB1/1L3A1/ /1L3C1/	-	-	\$15.50
Type 2002, each /1L1M1/	-	-	15.50
Type 2021, each /1LTB1/	-	-	15.85
b. When the distance between buildings is greater than 10,000 feet.			
Type 2001, each /1LPB2/1L3A2/ /1L3C2/	-	-	33.70
Type 2002, each /1L1M2/	-	-	33.70
Type 2021, each /1LTB2/	-	-	50.70
7. Multipoint Service, per Local Distribution Channel connected			
Type 2001, each /MPA/ /MVL/	\$12.00	\$ 5.00	16.20
Type 2002, each /MPA/	12.00	5.00	16.20
8. Central Office Terminal			
Type 2027 /TTM/	55.00 <sup>/1/</sup>	17.00 <sup>/1/</sup>	3.00

/1/ Premises Work Charges as specified Part 3 apply.

**CHANNELS (cont'd)****Series 2000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>	
	<u>Initial</u>	<u>Additional</u>		
<b>B. Inter-exchange</b>				
1. Inter-exchange Channel Mileage, each airline mile or fraction				
All Types				
0 to 40 miles	-	-	\$2,440.00	(l)
41 miles and over	-	-	3.65	
2. Inter-exchange Channel Mileage Termination, each (based on Inter-exchange Channel length)				
All Types				
0 to 40 miles /P1N/ /3LC/	-	-	22.45	
41 miles and over /P7K/ /3LD/	-	-	30.30	
3. Local Distribution Channel, each				
Type 2001 /1SES+/ /J5Y++/ /DUX++/	\$235.00 <sup>/1/</sup>	\$170.00 <sup>/1/</sup>	42.55	
Type 2002 /1SES+/	235.00 <sup>/1/</sup>	165.00 <sup>/1/</sup>	42.55	
Type 2011 /1SES+/	375.00 <sup>/1/</sup>	290.00 <sup>/1/</sup>	77.30	
Type 2014 /1SES+/	205.00 <sup>/1/</sup>	170.00 <sup>/1/</sup>	76.65	
Type 2017 /9B1S+/	405.00 <sup>/1/</sup>	290.00 <sup>/1/</sup>	77.30	
Type 2021 /1SES+/	325.00 <sup>/1/</sup>	250.00 <sup>/1/</sup>	82.95	
Type 2043A /9C1S+/	485.00 <sup>/1/</sup>	370.00 <sup>/1/</sup>	199.55	
Type 2043B /9B1S+/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	50.15	

/1/ Premises Work Charges as specified in Part 3 apply.

**CHANNELS (cont'd)**

**Series 2000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>	
	<u>Initial</u>	<u>Additional</u>		
B. Inter-exchange (cont'd)				
4. Centrex C.O. Tie Line Termination, each				
Type 2026 /PMN/	\$235.00	\$175.00	\$25.05	
5. Inter-office Channel Mileage, each mile or fraction				
All Types	-	-	3,169.00	(l)
6. Inter-office Channel Mileage Termination, each				
All Types /2LH/ /3LS/	-	-	18.00	
7. Building Channel Termination, each				
Type 2001 /4SE++/ /N8X++/ /00X++/	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	10.00	
Type 2002 /4SE++/	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	10.00	
Type 2021	230.00 <sup>/1/</sup>	115.00 <sup>/1/</sup>	27.85	

/1/ Premises Work Charges as specified in Part 3 apply.



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**CHANNELS (cont'd)**

**Series 2000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
<b>B. Inter-exchange (cont'd)</b>			
8. Continuous Property Channel, in addition to 7. preceding			
a. When the distance between buildings is 10,000 feet or less.			
Type 2001, each /1LPA1/ /1L3C1/ /1L3A1/	-	-	\$15.50
Type 2002, each /1L1M1/	-	-	15.50
Type 2021, each /1LTB1/	-	-	15.85
b. When the distance between buildings is greater than 10,000 feet.			
Type 2001, each /1LPA2/ /1L3C2/ /1L3A2/	-	-	33.75
Type 2002, each /1L1M2/	-	-	33.70
Type 2021, each /1LTB2/	-	-	50.70
9. Multipoint Service, per Local Distribution Channel connected			
Type 2001 /MPA/ /MVL/	\$12.00	\$ 5.00	16.20
Type 2002 /MPA/	12.00	5.00	16.20
10. Central Office Terminal			
Type 2027 /TTM/	55.00 <sup>/1/</sup>	17.00 <sup>/1/</sup>	3.00
<b>C. Move Charge</b>			
Types 2001, 2002, 2021, 2043 A&B	59.00 <sup>/1/</sup>	/1/	-
Types 2011, 2014 and 2017	59.00 <sup>/1/</sup>	/1/	-
<b>D. Retermination Charge</b>			
All Types	59.00 <sup>/1/</sup>	/1/	-

/1/ Premises Work Charges as specified Part 3 apply.

**CHANNELS (cont'd)**

**Series 3000 - Direct Analog**

General

Series 3000 services include voice grade channels for data transmission of approximate bandwidth of 300-3000 Hz.

Channels are furnished for intra-exchange or inter-exchange service on a two-point or multipoint basis as indicated below. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors.

Conditioning options required to provide certain types of transmission performance on Series 3000 Channels are specified in Other Features and Arrangements in this Section.

Series 3000 Channels may be arranged for alternate use as specified in Other Features and Arrangements in this Section.

"Effective two-wire facilities" may be composed of two-wire metallic and/or four-wire metallic and/or carrier segments; "four-wire facilities" are composed entirely of four-wire metallic and/or carrier segments.

The 1000 Hz loss objective range specified refers to the total channel offering (end-to-end) and indicates that the engineered objective loss will fall within that range at the discretion of the Company depending upon available facilities and the applicability of short-haul or long-haul engineering designs. These specifications do not include gains or losses present in customer-provided equipment.

The Company reserves the right to revise these objectives and other technical parameters as described herein.

Allowance for Interruptions

When the use of the facilities is interrupted for 30 minutes or more due to any cause other than the negligence of the customer or the failure of facilities provided by the customer, credit is allowed for a proportionate part of the monthly price for the portion of the facilities affected by the interruption, in half-hour multiples for each half-hour or major fraction thereof of interruption.

**CHANNELS (cont'd)**

**Series 3000 - Direct Analog (cont'd)**

Descriptions

Type 3001 is a two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities furnished for half-duplex or full duplex operation for audio tone protective relaying capable of 1000 Hz loss objective of 8dB or 16dB. Available for two-point or multipoint service on an intra-exchange or inter-exchange basis.

Type 3002 is a two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities furnished for half-duplex or full duplex data transmission capable of a 1000 Hz loss objective of 8dB or 16dB. Available for two-point or multipoint service on an intra-exchange or inter-exchange basis.

Type 3026 is a central office terminal furnished for the Centrex end of a two point dedicated communications service circuit.

(D)

(D)

Provisions

Applicable to Type 3001 (Protective Relaying Channels)

When these channels are furnished for multipoint service, a Multipoint Service monthly price applies for each Local Distribution Channel bridged on the same circuit, in addition to all other applicable charges for the channels.

**CHANNELS (cont'd)****Series 3000 - Direct Analog (cont'd)**

Provisions (cont'd)

Applicable to Type 3001 (Protective Relaying Channels) (cont'd)

The 8dB option is available subject to Local Distribution Channel restriction.

Applicable to Type 3002 (Data Channels)

These channels are not suitable for the transmission of direct current pulses.

Terminal equipment is required to condition signals generated by apparatus furnished by the customer to signals suitable for transmission on a Type 3002 channel and to condition signals received from such channel to signals for delivery to apparatus furnished by the customer. The Company shall furnish all data sets located in the Company central offices.

When these channels are furnished for multipoint service, a Multi-point Service monthly price applies for each Local Distribution Channel bridged on the same circuit (except when furnished for use with D2 Conditioning), in addition to all other applicable charges for the channels. When additional terminations of a channel are bridged at the customer's premises, a Building Channel Termination price for each termination connected to the bridge and a Multi-station Service monthly price for each bridge on the premises.

Applicable to Type 3026

Type 3026 central office terminals are furnished for the Centrex end of a two point circuit to connect to the Central Office.

One Type 3026 central office terminal is required per Type 3002 circuit for connection to the Centrex C.O.

**CHANNELS (cont'd)**

**Series 3000 - Direct Analog (cont'd)**

Provisions (cont'd)

(D)

(D)

**CHANNELS (cont'd)**

**Series 3000 - Direct Analog (cont'd)**

Provisions (cont'd)

(D)  
|  
(D)

**CHANNELS (cont'd)**

**Series 3000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
A. Intra-exchange			
1. Local Distribution Channel, each			
Type 3001			
Half Duplex /J5Y++/	\$330.00 <sup>/1/</sup>	\$260.00 <sup>/1/</sup>	\$24,877.00 (I)
Full Duplex /DUX++/	330.00 <sup>/1/</sup>	260.00 <sup>/1/</sup>	29,575.00 (I)
Type 3002			
Half Duplex /J5Y++/	325.00 <sup>/1/</sup>	250.00 <sup>/1/</sup>	24,877.00 (I)
Full Duplex /DUX++/	325.00 <sup>/1/</sup>	250.00 <sup>/1/</sup>	29,575.00 (I)
Type 3040 /J5Y++/	200.00 <sup>/1/</sup>	125.00 <sup>/1/</sup>	66.00
Type 3041 /DUX++/	300.00 <sup>/1/</sup>	225.00 <sup>/1/</sup>	76.15
2. Inter-office Channel Mileage, each mile or fraction			
All Types /1L3+S/ /1L6+S/ /1LH+S/ /1LV+S/	-	-	3,169.00 (I)
3. Inter-office Channel Mileage, Termination, each			
All Types /3LS/	-	-	18.00
4. Building Channel Termination, each			
Type 3001			
Duplex /N8X++/ /M8X++/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	13.00
Full Duplex /00X++/ /MUX++/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	23.50
Type 3002			
Half Duplex /N8X++/M8X++/	175.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	13.00
Full Duplex /00X++/MUX++/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	23.50

/1/ Premises Work Charges as specified in Part 3 apply.

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**CHANNELS (cont'd)**

**Series 3000 - Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
A. Intra-exchange (cont'd)			
5. Continuous Property Channel, in addition to 4. Preceding			
a. When the distance between buildings is 10,000 feet or less.			
Type 3001 each /1L3A1/ /1L3C1/	-	-	\$17.30
Type 3002 each Half Duplex /1L6B1/ each Full Duplex /1L6D1/	- -	- -	15.50 20.50
b. When the distance between buildings is greater than 10,000 feet.			
Type 3001 each /1L3A2/ /1L3C2/	-	-	67.40
Type 3002 each Half Duplex /1L6B2/ each Full Duplex /1L6D2/	- -	- -	33.70 67.40
6. Multipoint Service, per Local Distribution Channel connected			
Type 3001 and 3002, /MVL/	\$ 8.00	\$ 5.00	16.20
7. Central Office Terminal			
Type 3026 /TTM/	55.00 <sup>/1/</sup>	17.00 <sup>/1/</sup>	3.00

/1/ Premises Work Charges as specified in Part 3 apply.



**CHANNELS (cont'd)**

**Series 3000 – Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
<b>B. Inter-exchange</b>			
1. Inter-exchange Channel Mileage, each airline mile or fraction			
All Types /1L++4/			
0 to 40 miles	-	-	\$ 2,440.00 (I)
41 miles and over	-	-	3.65
2. Inter-exchange Channel Mileage Termination, each			
All Types /3LC/ /3LD/			
0 to 40 miles	-	-	22.45
41 miles and over	-	-	30.30
3. Local Distribution Channel, each			
Type 3001			
Half Duplex /J5Y++/	\$370.00 <sup>/1/</sup>	\$295.00 <sup>/1/</sup>	24,877.00 (I)
Full Duplex /DUX++/	370.00 <sup>/1/</sup>	295.00 <sup>/1/</sup>	29,575.00 (I)
Type 3002			
Half Duplex /J5Y++/	360.00 <sup>/1/</sup>	285.00 <sup>/1/</sup>	24,877.00 (I)
Full Duplex /DUX++/	360.00 <sup>/1/</sup>	285.00 <sup>/1/</sup>	29,575.00 (I)
Type 3040 /J5Y++/	320.00 <sup>/1/</sup>	200.00 <sup>/1/</sup>	66.00
Type 3041 /DUX++/	445.00 <sup>/1/</sup>	325.00 <sup>/1/</sup>	83.70
4. Inter-office Channel Mileage, each mile or fraction			
All Types /1L3+S/ /1L6+S/ /1LH+S/ /1LV+S/	-	-	3,169.00 (I)
5. Inter-office Channel Mileage, Termination, each			
All Types /3LS/	-	-	18.00

/1/ Premises Work Charges as specified in Part 3 apply.

**CHANNELS (cont'd)**

**Series 3000 - Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>	
	<u>Initial</u>	<u>Additional</u>		
B. Inter-exchange (cont'd)				
6. Building Channel Termination, each				
Type 3001				
Half Duplex /N8X++/	\$295.00 <sup>/1/</sup>	\$180.00 <sup>/1/</sup>	\$13.00	(C)
Full Duplex /00X++/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	23.50	(C)
Type 3002				
Half Duplex /N8X++/	175.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	13.00	
Full Duplex /00X++/	295.00 <sup>/1/</sup>	180.00 <sup>/1/</sup>	23.50	
7. Continuous Property Channel, in addition to 6. Above				
a. When the distance between buildings is 10,000 feet or less.				
Type 3001				
each /1L3A1/ /1L3C1/	-	-	17.30	
Type 3002				
each Half Duplex /1L6A1/	-	-	15.50	
each Full Duplex /1L6C1/	-	-	20.50	
b. When the distance between buildings is greater than 10,000 feet.				
Type 3001				
each /1L3A2/ /1L3C2/	-	-	67.40	
Type 3002				
each Half Duplex /1L6A2/	-	-	33.70	
each Full Duplex /1L6C2/	-	-	67.40	

/1/ Premises Work Charges as specified in Part 3 apply.

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**CHANNELS (cont'd)****Series 3000 - Direct Analog (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
B. Inter-exchange (cont'd)			
8. Multipoint Service, per Local Distribution Channel connected Type 3001 and 3002, each /MVL/	\$ 8.00	\$ 5.00	\$16.20
9. Central Office Terminal Type 3026 /TTM/	55.00 <sup>/1/</sup>	17.00	3.00
C. Move Charge			
Types 3001, 3002	59.00 <sup>/1/</sup>	/1/	-
Types 3040, 3041	59.00 <sup>/1/</sup>	/1/	-
D. Retermination Charge	59.00 <sup>/1/</sup>	/1/	-

/1/ Premises Work Charges as specified Part 3 apply.

(D)

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(D)



(D)

**CHANNELS (cont'd)****Series 9000 - Miscellaneous**

## General

This Series is reserved for miscellaneous channels which cannot readily be classified in other series and includes the following:

## Local Area Data Channels

"Effective two-wire facilities" may be composed of two-wire and/or four-wire metallic segments; "four-wire facilities" are composed entirely of four-wire metallic segments.

The 1000 Hz loss objective range specified refers to the total channel offering (end-to-end) and indicates that the engineered objective loss will fall within that range at the discretion of the Company depending upon available facilities and the applicability of short-haul or long-haul engineering designs. These specifications do not include gains or losses present in customer provided equipment.

The Company reserves the right to revise these objectives and other technical parameters as described herein.

When the use of the facilities is interrupted for 30 minutes or more due to any cause other than negligence of the customer or the failure of facilities provided by the customer, credit is allowed for a proportionate part of the monthly charge for the portion of the facilities affected by the interruption, in half-hour multiples for each half-hour or major fraction thereof of interruption.

## Descriptions

Type 9001 is a two-wire interface with effective two-wire non-loaded facilities with maximum insertion loss dependent upon facility length as specified in the table below; for two-point service within the same central office serving area only; normally suitable for the transmission of half duplex data signals.

Type 9002 is a four-wire interface with four-wire non-loaded facilities with maximum insertion loss dependent upon facility length as specified in the table below; for two-point service within the same central office serving area only; normally suitable for the transmission of full duplex data signals.

**CHANNELS (cont'd)**

**Series 9000 - Miscellaneous (cont'd)**

Descriptions (cont'd)

Maximum End-to-End Facility Length, <u>in Miles</u>	Insertion Loss at 1000 Hz, <u>in dB*</u>
1	10.5
2	14.5
3	18.0
4	21.0
5	23.5
6	26.5

\* Insertion loss is referenced to 135 ohm resistive terminations at each end.

Provisions

Applicable to Types 9001 and 9002 (Local Area Data Channels)

These channels are furnished only for balanced transmission of data signals conforming to specified signal power limitations and other parameters as specified by the Company.

These channels are furnished only between points that are no more than six route miles apart as determined by the Company using normal cable routing between the points to be served.

These channels require the use of non-loaded cable facilities. In the event that only loaded facilities are available, the Company will, at the customer's request, de-load facilities at rates commensurate with costs incurred, in accord with provisions in Part 2 of this Guidebook. (T)

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

Provision of this service is subject to the availability of facilities, and construction of facilities expressly for this purpose is not contemplated.

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**CHANNELS (cont'd)**

**Series 9000 - Miscellaneous (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
	<u>Initial</u>	<u>Additional</u>	
1. Local Distribution Channel, each	/1/		
Type 9001 /J5Y++/	\$170.00 <sup>/1/</sup>	\$100.00 <sup>/1/</sup>	\$39.25
Type 9002 /DUX++/	170.00 <sup>/1/</sup>	100.00 <sup>/1/</sup>	57.50
2. Building Channel Termination, each			
Type 9001 /M8X++/	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	18.00
Type 9002 /MUX++/	170.00 <sup>/1/</sup>	56.00 <sup>/1/</sup>	22.50
3. Continuous Property Channel, in addition to 2. Above			
a. When the distance between buildings is 10,000 feet or less.			
Type 9001 /1L6G1/	-	-	20.00
Type 9002 /1L6G1/	-	-	23.50
b. When the distance between buildings is greater than 10,000 feet.			
Type 9001 /1L6G2/	-	-	33.70
Type 9002 /1L6G2/	-	-	67.40
4. Move Charge	59.00 <sup>/1/</sup>	/1/	-
5. Retermination Charge	59.00 <sup>/1/</sup>	/1/	-

/1/ Premises Work Charges as specified in Part 3 apply.

**CUSTOMER OPERATING CENTER SERVICE****General**

Customer Operating Center Service (COCS) is a service arrangement available for use by customers who utilize large quantities of Local Distribution Channels of the types described following when the airline distance between the Customer Operating Center (COC) and its normal serving central office is one mile or less.

A Customer Operating Center is a customer location which meets all of the following criteria:

- A. owned or leased by the customer over which the customer has control and provides security.
- B. from which the customer furnishes and administers services to multiple patrons in a geographical area. The term "Patron" denotes a subscriber to the services offered by the owner or lessee of a Customer Operating Center.
- C. at which a system, or group of systems, is owned or leased by the customer whose operation is to receive signals and messages which are recorded, maintained, and supervised by the customer.
- D. at which the customer has regularly scheduled observers, operators and/or equipment in attendance at all times, which upon receipt of a signal or message from a patron, take such action as shall be required under the rules established by the customer for their/its guidance.
- E. COCS is provided to customers at their option at the time of a new installation or an addition to an existing cable complement covered under this arrangement. Transition from individual Local Distribution Channel prices to COCS is not permitted. The prices for this service are billed directly by the Company to the customer of the service.

COCS is available for Local Distribution Channels of Type 1011, 1012, 2001, 2040, 2942, 2043A, 2043B, 3002, 3040 and 3041.

The customer must provide in advance a forecast of cable pairs he wishes to have planned for his use and agrees to payment of the Monthly Charges for the complement of cable pairs as found in Cable Complement in the Price List for this section. These Monthly Charges are applicable for each month the customer retains the service regardless of whether or not individual circuits within the cable complement are activated. In addition a Monthly Price applies as shown in Activated Channel in the Price List for this Section for each Local Distribution Channel or Central Office Terminal activated.

**CUSTOMER OPERATING CENTER SERVICE (cont'd)**

**General (cont'd)**

A Maximum Termination Liability will apply for any facility newly installed specifically for a customer for which no reuse is foreseen if the initial use is discontinued. The Maximum Termination Liability is 5 years and the amount of the liability is equal to the estimated amount of the installed costs, less net salvage. Title of all facilities remains with the Company.

The Maximum Termination Liability defined above is reduced by 1/60th for each month of the 5 year period that the cable complement is in service from the date it is placed in service for a specific customer.

If, after subscribing to a complement of cable pairs of specified cable complement dedicated to his use, he must subscribe to a new complement of pairs and make payment of all applicable charges for both complements, including any unexpired Maximum Termination Liability for a dedicated complement of pairs for which service is discontinued.

When at the customer's request, a circuit or circuits within a dedicated complement are activated for use, Nonrecurring and Monthly Prices as found in the following apply for each circuit activated.

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**CUSTOMER OPERATING CENTER SERVICE (cont'd)****Cable Complement**

## Monthly Prices

<u>COC Distance From Serving Central Office</u>	<u>50 Pairs</u>	<u>100 Pairs</u>	<u>200 Pairs</u>	<u>300 Pairs</u>	<u>600 Pairs</u>	<u>900 Pairs</u>	<u>1200 Pairs</u>
1/4 mile	\$231	\$294	\$ 408	\$ 529	\$ 865	\$1231	\$1565
1/2 mile	\$417	\$513	\$ 694	\$ 884	\$1414	\$1988	\$2524
3/4 mile	\$605	\$733	\$ 983	\$1242	\$1968	\$2749	\$3490
1 mile	\$811	\$976	\$1298	\$1636	\$2203	\$3587	\$4552
Nonrecurring Price	\$230	\$265	\$330	\$395	\$585	\$770	\$965

Maximum Termination  
Liability

1/4 mile	\$10,118	\$12,804	\$17,704	\$22,833	\$37,124	\$ 52,809	\$ 67,023
1/2 mile	\$18,635	\$22,817	\$30,756	\$39,069	\$62,232	\$ 87,379	\$110,857
3/4 mile	\$27,213	\$32,898	\$43,894	\$55,420	\$87,507	\$122,185	\$154,993
1 mile	\$36,643	\$43,985	\$58,345	\$73,403	\$98,524	\$160,463	\$203,528

**CUSTOMER OPERATING CENTER SERVICE (cont'd)**

**Activated Channel**

Monthly Prices

Channel Type	COC Distance From Serving Central Office			
	1/4 Mile	1/2 Mile	3/4 Mile	1 Mile
1011 each	\$ .25	\$ .25	\$ .25	\$ .25
1012 each	3.75	3.75	3.75	3.75
2001 each	2.25	2.25	3.05	3.90
2040 each	5.80	5.80	6.00	6.00
2942 each	5.80	5.80	6.00	6.00
2043A# each	57.00	57.00	57.00	57.00
2043B each	18.30	18.30	18.30	18.30
3002# Full Duplex each	14.80	14.90	14.90	16.80
3002# Half Duplex each	30.25	30.25	30.25	32.25
3040 each	6.85	6.85	6.85	6.85
3041# each	22.75	22.75	22.75	22.75

Nonrecurring Prices for Channels 1011, 1012, 2001, 2043A, 2043B, 3002 Full Duplex, 3002 Half Duplex, 3040 and 3041 are found in Channels preceding. Nonrecurring Prices for Channels 2040 and 2942 can be found in Part 4.

# The total number of all types of Local Distribution Channels that may be activated within a dedicated complement of cable pairs is limited by the number of pairs required for each Local Distribution Channel activated. Type 3002 and 3041 Channels are four wire facilities and use two cable pairs. Type 2043A channels use up to five cable pairs, one four wire facility voice channel and up to three signaling channels.



**OTHER FEATURES AND ARRANGEMENTS****Conditioning**

At the request of a customer a Type 3002 Local Distribution Channel furnished for half duplex or full duplex data transmission may be conditioned to meet the specifications set forth for Types C1, C2, C4, D1 or D2 following:

Type C1 - For a two-point or multipoint channel.

envelope delay between 1000 and 2400 Hertz shall not exceed a maximum difference of 1000 microseconds (mcs).

the loss deviation with frequency response (from a 1000 Hertz reference) shall not exceed -1 to +3 db from 1000 to 2400 Hertz and -2 to +6 db from 300 to 2700 Hertz.

Type C2 - For a two-point or multipoint channel

envelope delay shall not exceed the maximum difference as follows:

between 1000 and 2600 Hertz a maximum difference of 500 mcs.

between 600 and 2600 Hertz a maximum difference of 1500 mcs.

between 500 and 2800 Hertz a maximum difference of 3000 mcs.

the loss deviation with frequency response (from a 1000 Hertz reference) shall not exceed -1 to +3 db from 500 to 2800 Hertz and 2 to +6 db from 300 to 3000 Hertz.

Type C4 - For two-point or multi-point channels with a maximum of four point on multipoint channels.

envelope delay shall not exceed the maximum difference as follows:

between 1000 and 2600 Hertz a maximum difference of 300 mcs.

between 600 and 3000 Hertz a maximum difference of 1500 mcs.

between 500 and 3000 Hertz a maximum difference of 3000 mcs.

the loss deviation with frequency response (from a 1000 Hertz reference) shall not exceed -2 to +3 db from 500 to 3000 Hertz and 2 to +6 db from 300 to 3200 Hertz.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)****Conditioning (cont'd)**

Type D - High Performance Data Conditioning. Certain data transmission characteristics necessary for high performance data transmission cannot be assured on all facilities generally available for data transmission; however, Type 3002 two-point and three-point channels may be specifically arranged to provide for the following technical parameters:

Signal to C-notched noise Ratio 28db Nonlinear distortion:  
Signal to second order distortion 35db  
Signal to third order distortion 40db

When the channel equipped with this conditioning is utilized for voice communications, the Company does not undertake to represent that the channel will be suitable for such voice transmission.

Type D1 - Furnished for a two-point channel not arranged for switching.

Type D2 - Furnished for a two or three-point channel where there is not more than three stations per channel. Type D2 includes a switching arrangement which permits the transmission of data between a control station designated by the customer and either of two outlying stations, one station at a time. Only one such switching arrangement may be provided on any given service. Any service so arranged may not be switched to any other service. When the key control for the switching arrangement is located in a different exchange than the switching arrangement rates for a Type 1011 or 1012 Local Distribution Channel are applicable for the remote control channel between exchanges.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)****Conditioning (cont'd)**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>	<u>Monthly Price</u>
C-1 Conditioning, per Local Distribution Channel /QA9/	\$5.00	\$ 7.80
C-2 Conditioning, per Local Distribution Channel /QAF/	6.00	7.80
C-4 Conditioning, per Local Distribution Channel /9WA/	8.00	7.80
D-1 Conditioning, per Local Distribution Channel /QHA/	2.00	7.52
D-2 Conditioning, per Local Distribution Channel /QHB/	2.00	13.45

**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Signaling**

Furnished for use with Type 2001 (Dedicated Communications Service) Local Distribution Channels.

Automatic Ringdown is furnished for signaling on a two-point channel. An automatic signal is received at one end of the channel when the calling station removes the receiver from the switchhook. One arrangement is required per local distribution channel.

Manual Ringdown is furnished to send a signal by means of a key from one point to another on a two point channel.

One arrangement is required per local channel.

Furnished for use with Type 2021 (PBX-to-PBX and PBX-to-Centrex C.O. Tie Lines (or similar) Local Distribution Channels, arranged with E & M Signaling interfaces.)

E & M Signaling is furnished for signaling leads conventionally known as battery/ground or contact closure.

E & M Signaling Arrangements are furnished for use with grandfathered and registered PBX's (or switching systems which present a PBX - like network interface) in accordance with PART 68 of the Federal Communications Commission's Rules and Regulations.

An E & M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer premises with a Registered PBX.

An E & M Signaling Arrangement is required for each tie line termination at a customer premises with grandfathered Company-provided or customer-provided PBX's when the tie line is arranged with an E & M Signaling interface.

An E & M Signaling Arrangement is not required for additions to or for new installations of grandfathered PBX equipment when not arranged with an E & M Signaling interface.

Type A, B or C Signaling is furnished for use with Type 2014 (PBX (or similar) Off-premises Station) Local Distribution Channels.

Type A Signaling is furnished for use with Class A PBX (or similar) station ports capable of operation over loops with resistance in the range of 0-199 ohms.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)****Signaling (cont'd)**

Type B Signaling is furnished for use with Class B PBX (or similar) station ports capable of operation over loops with resistance in the range of 200-899 ohms.

Type C Signaling is furnished for use with Class C PBX (or similar) station ports capable of operation over loops with resistance in the range of 900 ohms or more.

Signaling Arrangements are furnished for use with grandfathered and registered PBX's (or switching systems which present a PBX - like network interface) in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.

For connections to registered PBX (or similar) equipment, customers must specify the equipment capability i.e., Type A, B, or C port of the registered equipment.

For connections to grandfathered customer-provided PBX (or similar equipment), customers must specify the equipment's station port capability as it pertains to Type A, B, or C Signaling Arrangements.

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 Service Charges will apply.

Customers with grandfathered PBX (or similar) equipment requesting new channel service will be classified as either a Class A, B, or C station port and the corresponding Type A, B, or C Signaling Arrangement, at appropriate rates and charges, will apply.

One Signaling Arrangement is required for each channel connected to the PBX (or similar) station port for service furnished as specified above.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)****Signaling (cont'd)**

Description /Billing Code/	Nonrecurring Charge	Monthly Price
Automatic Ringdown, per Local Distribution Channel		
Bell-provided equipment, each /27M/	\$6.00	\$14.95
Customer-provided equipment, each /27M/	6.00	14.95
Loop Signaling, each		
Type A /SAL/	-	45.40
Type B /SAU/	-	30.15
Type C /SAY/	-	16.70
E & M Signaling, each /SLM/	-	16.80

**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Restoration Priority Change**

The Company will arrange an inter-exchange dedicated communications service for restoration priority on receipt of certification in conformance with Part 64, Subpart D, Appendix A of the Federal Communications Commission's Rules and Regulations. A Nonrecurring Price applies when a request to provide or change a restoration priority is received after the service has been ordered but prior to the start of service. No charge applies when the restoration priority certification is provided with the order to establish the service.

Telecommunications Service Priority (TSP) System

The provisions contained in this Guidebook, Part 8 apply to Telecommunications Service Priority System furnished in connection with Dedicated Communications Services. (T)

**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Restoration Priority Change (cont'd)**

	<u>Nonrecurring Price</u>
For each two-part dedicated communications or for the first two-points of a multipoint dedicated communications service.	\$ 150.00
For each additional point of a multipoint dedicated communicating service.	43.00



**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Duplicate Master Bridge Arrangement**

Furnished For Use With Type 3002 Local Channels

The Duplicate Master Bridge Arrangement permits two master stations on one multipoint circuit. One duplicate master per circuit is allowed. Only one master station can be used at any time, contention is controlled by the customer.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Duplicate Master Bridge Arrangement (cont'd)**

Furnished for use with Type 3002 Local Channels (cont'd)

	<u>Nonrecurring Price</u>	<u>Monthly Price</u>
Duplicate Master Bridge Arrangement/DM7/	\$300.00	\$55.00

**OTHER FEATURES AND ARRANGEMENTS (cont'd)**

**Miscellaneous Equipment**

Furnished for use with Type 1011 Channels

	<u>Nonrecurring Price</u>	<u>Monthly Price</u>
Bell and Lights Civil Defense Warning Equipment		
Central Office Common Equipment, per station /BWG/	-	\$6.05