THE MAINTENANCE AND PROVISIONING OF INTRABUILDING CABLE

A. General

This cable which is frequently referred to as "black cable" is used to connect telephone services on different floors of a multi-level building or different buildings on the same premises (in a campus type environment). It may also include outside plant facilities such as house, riser, aerial or buried cable. This embedded cable, which is owned by the Company, may be provided as follows:

Grandfathered 242 Cable

- If the cable pairs were in service, without charge, and were being provided in connection with extension and/or PBX station services utilized by the customer before January 1, 1984, the customer may continue to use those pairs without charge. Effective with supersedure or outside move of an account, a customer is subject to lease charge for all pairs at charges provided in paragraph 2. following.
- 2. When spare pairs are available in the existing cable, additional cable pairs may be leased to the customer at charges equal to the 101 type channel as specified in Part 15, Section 2.
- 3. The Company will continue to maintain all 242 cable for which the Company retains ownership.
- 4. If a single demarcation point for other Company provided services is established at a minimum point of entry, all current Two-Point Service offered in Part 9, Section 1, beyond that newly established demarcation point will be discontinued.

A. Direct Connections

1. Grandfathered Terminal Equipment

Grandfathered terminal equipment may remain directly connected and be moved and reconnected to the telecommunications network for the life of the equipment without registration and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:

- a. the customer shall notify the Company when such grandfathered terminal equipment is to be connected and shall notify the Company when such grandfathered terminal equipment is to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
- b. all such connections are made through Company-provided standard jacks or are otherwise connected by the Company; and
- c. all such connections shall comply with the minimum protection criteria set forth in C., following.
- 2. Grandfathered Communications Systems

Grandfathered communications systems may remain directly connected and be moved and reconnected to the telecommunications network for the life of the equipment without registration and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:

a. All such connections shall comply with the minimum protection criteria set forth in C., following;

A. Direct Connections (cont'd)

- 2. Grandfathered Communications Systems (cont'd)
 - b. No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer;
 - c. Premises wiring shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
 - d. The customer shall notify the Company when such communications systems are to be connected and shall notify the Company when such communications systems are to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
 - e. All such connections are made through Company-provided standard jacks or are otherwise connected by the Company;
 - f. Additions to grandfathered communications systems may be made without registration of any additional equipment involved if:
 - 1. equipment so added is being reconnected, i.e., was previously directly connected prior to January 1, 1980, in accordance with this Guidebook; and
 - 2. such additions comply with the provisions of A,2.a., through e., preceding.
 - g. Additions of registered equipment to grandfathered communications systems are subject to Part 2, Section 9 (Connections of Registered Equipment) of this Guidebook.

A. Direct Connections (cont'd)

3. Terminal equipment and communications systems connected to the telecommunications network via grandfathered protective circuitry are subject to the provisions of A,1. and 2., preceding.

B. Connections Through Connecting Arrangements Provided by the Company

- 1. General
 - a. Basis of Connection
 - Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with B. 2. and 3., respectively, may remain connected and be moved and reconnected for the life of the equipment and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations. Connecting arrangements used for such moves and reconnections will continue to be provided by the Company subject to their availability, at the rates and charges specified in F.
 - Customer-provided communications systems which are not subject to Part 68 of the Federal Communications Commission's Rules and Regulations may be connected in accordance with Part 2, Section 9 (Connections of Customer Provided Communications Systems Not Subject to Part 68 of the Federal Communication's Rules and Regulations). Company-provided connecting arrangements are furnished for the connection of such systems at the rates and charges specified in F.
 - 3. Separate identifiable and discrete protective circuitry (i.e., connecting arrangements) used for grandfathered connections of communications systems to the telecommunications network may be removed or replaced with apparatus of lesser protective function, provided that any equipment, and any premises wiring whose classification is changed thereby, conforms to Part 68 of the Federal Communications Commission's Rules and Regulations.
 - 4. Except as otherwise provided in Part 2, Section 9, of this Guidebook (see Connections of Customer Provided Communications Systems Not Subject to Part 68 of the Federal Communication's Rules and Regulations and Connections of Customer Provided Terminal Equipment to Services Specifically Exempted from the Federal Communication's Registration Program) Rules and Regulations), installations of new connecting arrangements will not be made (a) after July 1, 1979, for connection of terminal equipment, (b) after January 1, 1980, for connection of communications systems. Treatment with respect to grandfathered installations which include such connecting arrangements is covered in B., of this Guidebook

B. Connections Through Connecting Arrangements Provided by the Company (cont'd)

- 2. Grandfathered Connections of Terminal Equipment
 - a. Data Terminal Equipment

Subject to the provisions of B,1.,a.,1., preceding, data terminal equipment (including telephotograph equipment) may be connected at the customer's premises to the telecommunications network through a data access arrangement provided by the Company in accordance with the following:

- 1. The customer shall furnish the equipment which performs the functions of
 - (a) conditioning the data signals generated by the terminal equipment to signals suitable for transmission by means of Company services, and

(b) conditioning signals transmitted by means of Company services to data signals suitable for reception by the equipment.

- 2. The data terminal equipment must comply with the minimum protection criteria specified in C., following.
- 3. Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.

B. Connections Through Connecting Arrangements Provided by the Company (cont'd)

- 2. Grandfathered Connections of Terminal Equipment
 - a. Data Terminal Equipment

Subject to the provisions of B,1.,a.,1., preceding, data terminal equipment (including telephotograph equipment) may be connected at the customer's premises to the telecommunications network through a data access arrangement provided by the Company in accordance with the following: (cont'd)

4. Data Access Arrangement Charges

Installations of new data access arrangements for equipment will not be made after July 1, 1979.

		Monthly <u>Rate</u>	Instal- lation <u>Charge</u>	Service and Equipment Charge
(a)	Manual ^{/2/} (For connection of Data Transmitting and Receiving Equipment. Basic arrangement for manual operation /CDT/	\$2.45	\$5.00	\$11.25
(b)	Automatic Arrangement for unattended sending and receiving through a contact closure type control interface, each /CBT++/	6.60	10.00 ^{/1/}	11.25
	 Power supply for use with contact closure type interface when not supplied by customer (CBV) Arrangement for unattended signaling and receiving through a 	2.10	5.00 ^{/3/}	11.25
	voltage type control interface, each /CBS++/	9.00	10.00 ^{/1/}	11.25

- /1/ Installation charge does not apply when installed at the same time as the telephone service with which it is associated.
- /2/ The customer must provide all the electrical power necessary for the operation of Data Transmitting and/or Receiving Equipment and associated line to the Data Access Arrangement.
- /3/ Installation or move charge does not apply when installed at the same time as the connecting arrangement with which the power supply is associated.

B. Connections Through Connecting Arrangements Provided by the Company (cont'd)

- 2. Grandfathered Connections of Terminal Equipment (cont'd)
 - b. Voice Terminal Equipment

Subject to the provisions of B,1,a,1., preceding, voice terminal equipment may be connected at the customer's premises to the telecommunications network in accordance with the following:

- 1. The connection shall be made through a connecting arrangement furnished by the Company. In accordance with D, and E., following, a connecting arrangement is not required for the connection of Attested Equipment or Conforming Answering Devices.
- 2. Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.
- 3. The voice terminal equipment must comply with the minimum protection criteria specified in C, following.
- 3. Grandfathered Connections of Communications Systems

Subject to the provisions of B,1,a,1. preceding, communications systems may be connected at the customer's premises to telecommunications services in accordance with the following:

- a. The connection shall be through a connecting arrangement furnished by the Company.
- b. The provisions relating to minimum protection criteria set forth in C., following shall apply to the connection of communications systems.

C. Minimum Protection Criteria for Electrical Connections

- To prevent excessive noise and crosstalk in the network, it is necessary that the power of the signal at the central office not exceed 12dB below one milliwatt when averaged over any three second interval. To insure that this limit is not exceeded, the power of the signal which may be applied by the equipment to the Company interface located on the customer's premises will be specified for each customer location but in no case shall it exceed one milliwatt.
- 2. To protect other services, it is necessary that the signal which is applied by the equipment to the Company interface located on the customer's premises meet the following limits;
 - a. The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in C.1., above.
 - b. The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
 - c. The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
 - d. The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
 - e. The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.
- 3. To prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the equipment to the Company interface located on the customer's premises at no time have energy solely in the 2450 to 2750 Hertz band. If signal power is in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band.

D. Attested Equipment Connected Prior to July 1, 1980

- 1. Until July 1, 1980, headsets and non-powered conferencing equipment which meet the standards and procedures set forth by the Company in Technical References for Attested Equipment may be connected at the customer's premises to the telecommunications network in accordance with a. through e., following. Such equipment may remain connected and be moved and reconnected in accordance therewith for the life of the equipment unless subsequently modified.
 - a. The connection shall be made through an interface termination (e.g., headset jack) provided by the Company.
 - b. The Identification Number issued by the Company to the manufacturer or supplier must appear on each unit of Attested Equipment utilized.
 - c. Customers must notify the Company of their intention to connect Attested Equipment. Such notification must include the Identification Number of the equipment and the location at which that equipment is to be used.
 - d. Attested Equipment may not:
 - 1. be connected to a source of electrical power which is external to the telecommunications network;
 - 2. be grounded;
 - 3. perform any network control signaling functions prior to and including the establishment of the intended transmission path;
 - 4. have amplification in the transmission path (other than single ended terminal devices with the maximum gain limited so that the output power meets the minimum protection criteria set forth in C., preceding; and
 - 5. use wiring external to such equipment that is permanently affixed at the site of the installation other than portable connections compatible with the interface terminations provided by the Company.
 - e. Attested Equipment must comply with the minimum protection criteria set forth in C., preceding.
- In the event Attested Equipment bearing an Identification Number does not meet the requirements set forth by the Company in its Technical References, the customer using such Attested Equipment shall either disconnect the equipment from the Company service or arrange for connection of the equipment in accordance with Part 2, Section 9 (see Connections of Registered Equipment).

E. Conforming Answering Devices Connected Prior to July 1, 1979

- 1. Conforming Answering Devices which meet the standards and procedures set forth by the Company in Technical References for Conforming Answering Devices and which were connected at the customer's premises to the telecommunications network prior to July 1, 1979, in accordance with a. through e., following, may remain connected and be moved and reconnected in accordance therewith for the life of the equipment, unless subsequently modified.
 - a. Customers shall notify the Company of their intention to connect Conforming Answering Devices. Such notification shall include the location at which the Conforming Answering Device is to be used as well as its Conformance Number.
 - b. The Conforming Answering Device shall only be connected by means of a jack or jack arrangement provided by the Company.
 - c. The Conforming Answering Device shall be operated and maintained in accordance with those instructions furnished with such Conforming Answering Device as required by the Company's Technical Reference for Conforming Answering Devices.
 - d. Conforming Answering Devices may not:
 - 1. be used to transmit or receive data signals;
 - 2. be used to originate calls.
 - e. The Conforming Answering Device shall comply with the minimum protection criteria set forth in C., preceding.
- 2. In the event that an answering device bearing a Conformance Number does not meet the requirements of the Company's Technical Reference for Conforming Answering Devices, the customer using such answering device shall either disconnect the device from the Company service or arrange for connection of the device in accordance with Part 2, Section 9 (see Connections of Registered Equipment).

F. Connecting Arrangement Charges

1. Manual Connecting Arrangements

Recorder Connector Equipment For connection of attended recording equipment with the facilities of Company.	Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
 With an automatic recorder tone device /RCT/^{/2/} With an automatic recorder tone device and amplifier filter unit 	\$3.00	\$10.00 ^{/1/}	\$11.25
/RCZ/Without an automatic recorder tone device as	3.50	10.00 ^{/3/}	11.25
Section 9 ^{/5/} RCW/	2.50	10.00	11.25
Arrangement to permit connection of an attendant position of a PBX type system to a local exchange access line.			
 Per local exchange access line terminated in a manual arrangement at a cord switchboard conditioned to accept supervisory signals (includes network control signaling unit) /CDA/^{/4/} 	3.60	10.00	11.25
	 For connection of attended recording equipment with the facilities of Company. With an automatic recorder tone device /RCT/^{/2/} With an automatic recorder tone device and amplifier-filter unit /RCZ/ Without an automatic recorder tone device as provided in Part 2, Section 9^{/5/}/RCW/ Arrangement to permit connection of an attendant position of a PBX type system to a local exchange access line. Per local exchange access line terminated in a manual arrangement at a cord switchboard conditioned to accept supervisory signals (includes network control 	RateRecorder Connector EquipmentFor connection of attendedrecording equipment with thefacilities of Company With an automatic recordertone device /RCT/ ^{/2/} \$3.00- With an automatic recordertone device and amplifier-filter unit/RCZ/3.50- Without an automaticrecorder tone device asprovided in Part 2,Section 9 ^{/5/} /RCW/Section 9 ^{/5/} /RCW/2.50Arrangement to permitconnection of an attendantposition of a PBX typesystem to a local exchangeaccess line Per local exchange accessline terminated in a manualarrangement at a cordswitchboard conditioned toaccept supervisory signals(includes network control	Recorder Connector Equipment For connection of attended recording equipment with the facilities of Company. - With an automatic recorder tone device /RCT/ ^{72/} - With an automatic recorder tone device and amplifier-filter unit /RCZ/ - Without an automatic recorder tone device as provided in Part 2, Section 9 ^{75/} /RCW/ 2.50 Arrangement to permit connection of an attendant position of a PBX type system to a local exchange access line. - Per local exchange access line terminated in a manual arrangement at a cord switchboard conditioned to accept supervisory signals (includes network control

- /1/ No installation charge applies for portable recorder-connector equipment where permanent recorderconnector equipment is installed at the time the jack for portable equipment is removed.
- /2/ Obsolete applicable to existing customers at existing locations.
- /3/ No installation charge applies where permanent recorder-connector equipment is installed at the time the jack for trial or demonstration is removed.
- /4/ The customer must provide all the electrical power necessary for the operation of communication systems equipment and associated line to the connecting arrangement.
- /5/ See Communications of Terminal Equipment and Communications Systems, A.4.- Recording of Two-Way Conversations.

F. Connecting Arrangement Charges (cont'd)

2. Automatic Connecting Arrangements

		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
a.	Recorder Coupler Equipment For connection of attended and unattended recording, reproducing and automatic answering and recording equipment with the facilities of the Company.			
	- Per line equipped /RDL/	\$5.55	\$25.00	\$11.25
	To provide two-way simultaneous transmission			
	- Per line equipped /RDM/	5.65	25.00	11.25
	- Recorder Coupler /RDJ/ ^{/1/}	7.50	10.00	11.25
b.	The Alarm Coupler is to be used only with an Alarm Reporting System.			
	- Alarm Coupler, each /CAU/	4.50	20.00	11.25
	 To provide two-way simultaneous transmission /SU4/ ^{12/ 13/ 14/ 15/} 	8.65	20.00	11.25
		0.00	20.00	11.20

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

- /2/ Guidebook rates and charges apply to all lines associated with this service.
- /3/ The Alarm Coupler is intended for use with one-party telephone service only where the called number can be dialed directly, without the assistance of an operator.
- /4/ The detection device must be designed to work satisfactorily with Company facilities.
- /5/ The customer by acceptance or continuance of this service, agrees to indemnify and save and hold harmless the Company against all loss or damage to any person or property occurring from the use of the Alarm Coupler. The Company may require a subscriber to sign a separate written indemnification covering the above agreement. Failure of the Company to request, or of the customer to sign such a separate written indemnity agreement shall not affect the responsibility of the customer or the rights of the Company as set forth in this Guidebook.

F. Connecting Arrangement Charges (cont'd)

714		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>	
C.	Voice connecting arrangement to provide for connection of answer-only terminal equipment. - Per line equipped where two-way transmission is required /RDMZR/	\$4.50	\$10.00	\$11.25	
	 Per line equipped where an automatic volume limited receive signal is required /RDY/ 	6.30	10.00	11.25	
					(D)
					(D)
d.	Voice connecting arrangement to provide for connection of originate only or originate and answer terminal equipment. - Per line equipped /SU6AQ/	4.50	10.00	11.25	(C)
e.	Voice connecting arrangement to provide for automatic connection of terminal equipment and systems.		10.00	11.20	(C)
	- Per line equipped /STP/	7.80	20.00	11.25	

F. Connecting Arrangement Charges (cont'd)

Au		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
g.	Voice connecting arrangement to provide for the connection of dial pulse dialers. - Per line equipped /SU7QW/ /SU7VW/	\$4.65	\$10.00	\$11.25
h.	Voice connecting arrangement to provide for automatic connection of terminal equipment (e.g., telephone sets) and systems other than PBX type systems. - Per line equipped /STC/	\$6.00	\$10.00	\$11.25
i.	Voice connecting arrangement to provide for automatic connection of voice transmitting and/or receiving terminal equipment and communications systems. - Per line equipped /C2ACP/	7.15	15.00	11.25
j.	Voice connecting arrangement to provide for automatic connection of voice transmitting and/or receiving terminal equipment and communications systems bridged to a Central Office Line terminated on a station. - Per line equipped /C2AKS/	7.40	15.00	11.25
		7.40	10.00	11.20

F. Connecting Arrangement Charges (cont'd)

	Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
 k. Voice connecting arrangement to provide for the connection of message register equipment to the exchange facilities of the Company. This arrangement provides indications of message registration for outgoing calls placed over associated central office facilities. Per central office facility arranged /CEK/ 	\$3.30	\$10.00	\$11.25
- Signaling channel		ed in Part 3, Sec cess Guideboo	

F. Connecting Arrangement Charges (cont'd)

2. Automatic Connecting Arrangements (cont'd)

		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
I.	Connecting arrangement which provides for connection of a DC power source to supply power to Company-provided voice connecting arrangements. - Per connecting arrangement /VCP24/ ^{/1/} - Per connecting arrangement /VCP48/ ^{/1/}	\$1.20 1.20	\$15.00 ^{/2/} 15.00 ^{/2/}	
m.	Automatic voice connecting arrangement to provide for connection of automatic telephone answering devices to central office, WATS, PBX and key system lines. - Per line equipped /GTS/	3.30	15.00	\$11.25
n.	Voice protective connecting arrangement to provide for connection of dial pulse repertory dialers to WATS, Central Office and PBX, which terminate in telephone instruments.			
	- Per arrangement /AD1/	1.10	15.00	11.25

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

/2/ Installation Charge does not apply if this unit is installed with initial installation of associated voice connecting arrangements.

F. Connecting Arrangement Charges (cont'd)

, (u		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
0.	Arrangement to connect a communications system with switching equipment to a local exchange access line to accommodate direct inward dialing. - Per local exchange access line equipped /C22/	\$6.90	\$15.00	\$11.25
p.	Arrangement to connect a communications system with switching equipment, to local exchange access lines to accomodate automatic identified outward dialing - Per arrangement /C25/	23.95	75.00	11.25
q.	Voice connecting arrangement to provide for the termination of tie lines /C2H/	25.15	25.00	11.25

F. Connecting Arrangement Charges (cont'd)

2. Automatic Connecting Arrangements (cont'd)

Λu		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
r.	Connecting arrangement to permit connection of an attendant position to a local exchange access line. - Per automatic arrangement provided in connection with			
	 inward service /CD6/^{/1/} Per automatic arrangement provided in connection with 	\$4.80	\$15.00	\$11.25
	 outward service /CD7/ ^{/1/} Per automatic arrangement provided in connection with 	5.65	15.00	11.25
	two-way service /CD9/ ^{/1/}	7.80	15.00	11.25
S.	Connecting arrangement to permit connection of switching equipment to a local exchange access line. - Per connecting arrangement provided in connection with outward service /CD8/ ^{/1/}	5.65	15.00	11.25
t.	Connecting arrangement to permit connection of switching equipment and attendant position(s) to a local exchange access line. - Per connecting arrangement provided in connection with two-way service (outward only from switching			
	equipment) /CDH/ ^{/1/}	\$7.80	\$15.00	11.25

/1/ The customer must provide all the electrical power necessary for the operation of communications systems equipment and associated line to the connecting arrangement.

F. Connecting Arrangement Charges (cont'd)

2. Automatic Connecting Arrangements (cont'd)

Λu		Monthly <u>Rate</u>	Installation <u>Charge</u>	Service and Equipment <u>Charge</u>
u.	Arrangement provided to Hotels-Motels to permit the connection of a system to a Company special outward recording trunk to the Long Distance Message Telecommunications switchboards. - Per automatic arrangement provided in connection with outward service /CET/	\$5.65	\$10.00	\$11.25
v.	Arrangement to transfer, during periods of AC power failure, up to four local exchange access lines to telephone equipment, with immediate restoral. - Per arrangement /PFB/ ^{/1/}	1.60	10.00	11.25
W.	Arrangement to transfer, during periods of AC power failure, one local exchange access line to telephone equipment, with delayed restoral. - Per arrangement /PFC/ ^{/1/}	1.35	10.00	11.25
	 x. Automatic voice connecting arrangements to provide for the termination of customer-provided tie lines, with customer-provided channel signaling, in PBX. Per PBX termination /C27/ 	5.85	20.00	11.25

/1/ For use only with connecting arrangements /CD7/, /CD8/ or /CDH/.

F. Connecting Arrangement Charges (cont'd)

2. Automatic Connecting Arrangements (cont'd)

	Monthly <u>Rate</u>	Installation Charge	Service and Equipment <u>Charge</u>
 y. Connecting arrangement that permits the connection of customer-provided called number registering and line use counting and timing equipment to a Central Office Line or PBX station line terminating in Company-provided rotary dial pulse equipment. Per line equipped /RCX/ 	3.10	15.00	11.25
 z. Connecting arrangement that permits the connection of customer-provided line use and counting and timing equipment to a Central Office Line or key telephone system line terminating in Company-provided rotary dial pulse equipment. Per line equipped /C1V/ 	2.80	15.00	11.25
 aa. Automatic connecting arrangement that provides for the connection of customer-provided call duration timing or usage duration limiting equipment to Company facilities. Per line equipped /RC1/ ^{/1/} 	7.40	20.00	11.25

/1/ The customer must provide all the electrical power necessary for the operation of customer-provided communications systems equipment and associated line to the connecting arrangement.