

**“DATA-PHONE®” INTERCONNECTION ARRANGEMENT
FOR LINE SIDE OF
10-TYPE DATA LINE CONCENTRATOR SYSTEM (DLCS)
SUMMARIZING SPECIFICATION
DATA SYSTEMS**

1. GENERAL

Scope

1.01 This specification, together with supplementary information listed herein, summarizes for application and ordering purposes the product engineering design requirements for the DATA-PHONE interconnection arrangement for the line side of the 10-Type Data Line Concentrator System (DLCS).

1.02 This specification is reissued to note the available lengths of extension cord M25A-61 and to remove the service mark DATREX from references in text.

1.03 The DATA-PHONE interconnection arrangement provides remotely located DATA-PHONE type stations with half-duplex (HDX) or full-duplex (FDX) access to a DLCS via the Direct Distance Dialing (DDD) network. A DATA-PHONE interconnection arrangement consists of the following.

ITEM	USE	NUMBER REQUIRED
Data Set 109D-L1 or Data Set 109E-L1	Half-Duplex DC Loop Half- or Full-Duplex DC Loop	1 per Line 1 per Line
AR270 Circuit Pack	Interface Circuitry Between Data Sets 109D-L1 or 109E-L1 and 103G	1 per Line
Data Set 103G Type or 113-Type Data Station	Half- or Full-Duplex AC Loop EIA Interface for Six or More Lines	1 per Line Equipped as Required; See Section 591-813-180
28A1 Data Mounting	Framework and Wiring	1 per 8 Lines
KS-20575,L1 Rectifier	Power Unit	1 per 8 Lines
208B Adapter	Provides Electrical Connections Between Data Set 109D-L1 or 109E-L1 and AR270 Circuit Pack	1 per 4 Lines
M25A-61 Cord	Extension Cord (As Required)	1 per Line

SECTION 591-811-183

1.04 The Data Set 109D-L1 or 109E-L1 type, AR270 circuit pack, 208B adapter, and KS rectifier all mount either in or on the 28A1 Data Mounting. The 28A1 Data Mounting will accommodate up to eight of these arrangements. At installations where only one through four arrangements are required, only one 208B adapter is needed. When five through eight arrangements are required, two 208B adapters are needed. All arrangements may be mounted on 23-inch or 25-inch racks.

1.05 Data Set 103G is connected in the arrangement by means of a 6-foot, EIA connector-ended

cable which is part of the AR270 circuit pack. Data Set 103G may be mounted on shelves in the KS-20093,L1 cabinet or on customer locations provided that they are within 50 feet of the AR270 circuit pack. When the Data Set 103G type is to be located outside the reach (6 feet) of the AR270 circuit pack, an extension cord, M25A-61 (available in 5-, 9-, 25-, and 50-foot lengths) must be used.

1.06 The dimensions and weights of apparatus are as follows:

UNIT	HEIGHT	WIDTH	DEPTH	WEIGHT	
	INCHES	INCHES	INCHES	POUNDS	OUNCES
Data Set 109D-L1	5.55	0.560	7.1	—	8
Data Set 109E-L1	5.55	0.560	7.1	—	8
AR270 Circuit Pack	5.55	0.560	7.1	—	10
Data Set 103G	5.5	9.0	15.5	16	—
28A1 Data Mounting	6.0	25.0	10.5	15	—
KS-20575 Rectifier	5.25	6.0	6.5	12	8

2. SUPPLEMENTARY INFORMATION

- 590-102-124—28A1 Data Mounting—Identification
- 591-026-100—Data Set 103G Type—Description
- 591-029-100—Data Set 109D Type—Description
- 591-036-101—Data Set 109E Type—Description
- 591-810-100—10-Type Data Line Concentrator System—Description
- 591-810-300—10-Type Data Line Concentrator System—Maintenance
- 591-810-500—10-Type Data Line Concentrator System—Tests
- 591-811-103—DATA-PHONE Interconnection Arrangement for Line Side of 10-Type Data Line Concentrator System—Description
- 591-811-203—DATA-PHONE Interconnection Arrangement for Line Side of 10-Type Data Line Concentrator System—Installation.
- 591-811-303—DATA-PHONE Interconnection Arrangement for Line Side of 10-Type Data Line Concentrator System—Maintenance
- 591-811-503—DATA-PHONE Interconnection Arrangement for Line Side of 10-Type

- Data Line Concentrator System—Tests
- 591-814-100—113-Type Data Station—Description
- 591-814-200—113-Type Data Station—Installation
- 591-814-300—113-Type Data Station—Maintenance
- 591-814-500—113-Type Data Station—Tests
- 800-610-158—Packaged Electronic Products—Wiring, Cabling, Numbering, and Lettering
- 800-610-159—Printed Wiring Assemblies—General Equipment Requirements
- X-17428—Plated-Through Holes for Printed Wiring Boards
- CD-1D197-01—Data Systems Station—DDD Incoming Circuits for the 10-Type Data Line Concentrator System (Manufacturing Test Requirements)

3. DRAWINGS

- SD-1D172-01—Data Set 109D-L1 Schematic
- SD-1D176-01—28-Type Data Mounting Schematic
- SD-1D197-01—Data Systems Station—DDD Incoming Circuit for the 10-Type Data Line Concentrator System
- SD-1D198-01—Data Set 109E-L1 Schematic

4. PRODUCT

**TABLE OF AUTHORIZED
ORDERABLE CODE NUMBERS**

APPARATUS	RATING
Data Set 109D-L1	AT&TCo Std
Data Set 109E-L1	AT&TCo Std
Data Set 103G5	AT&TCo Std
AR270 Circuit Pack	AT&TCo Std
28A1 Data Mounting	AT&TCo Std
208B Adapter	AT&TCo Std
M25A-61 Cord (specify length)	AT&TCo Std

5. GENERAL NOTES

5.01 When ordering apparatus, show the full code.

Example: Set, Data, 109E-L1
Pack, Circuit, AR270

6. REASONS FOR REISSUE

1. In 1.05, added available lengths of extension cord M25A-61.

2. In **2. SUPPLEMENTARY INFORMATION**, removed reference to drawings A-1571000 and A-836330.

3. In **2. SUPPLEMENTARY INFORMATION**, removed service mark (DATREX) from the following BSP titles:

591-810-100
591-810-300
591-810-500
591-811-103
591-811-203
591-811-303
591-811-503

4. In **3. DRAWINGS**, removed service mark (DATREX) from the title of SD-1D197-01.

5. In **4. PRODUCT**, added the statement (specify length) to M25A-61 cord in the Table of Authorized Orderable Codes.