

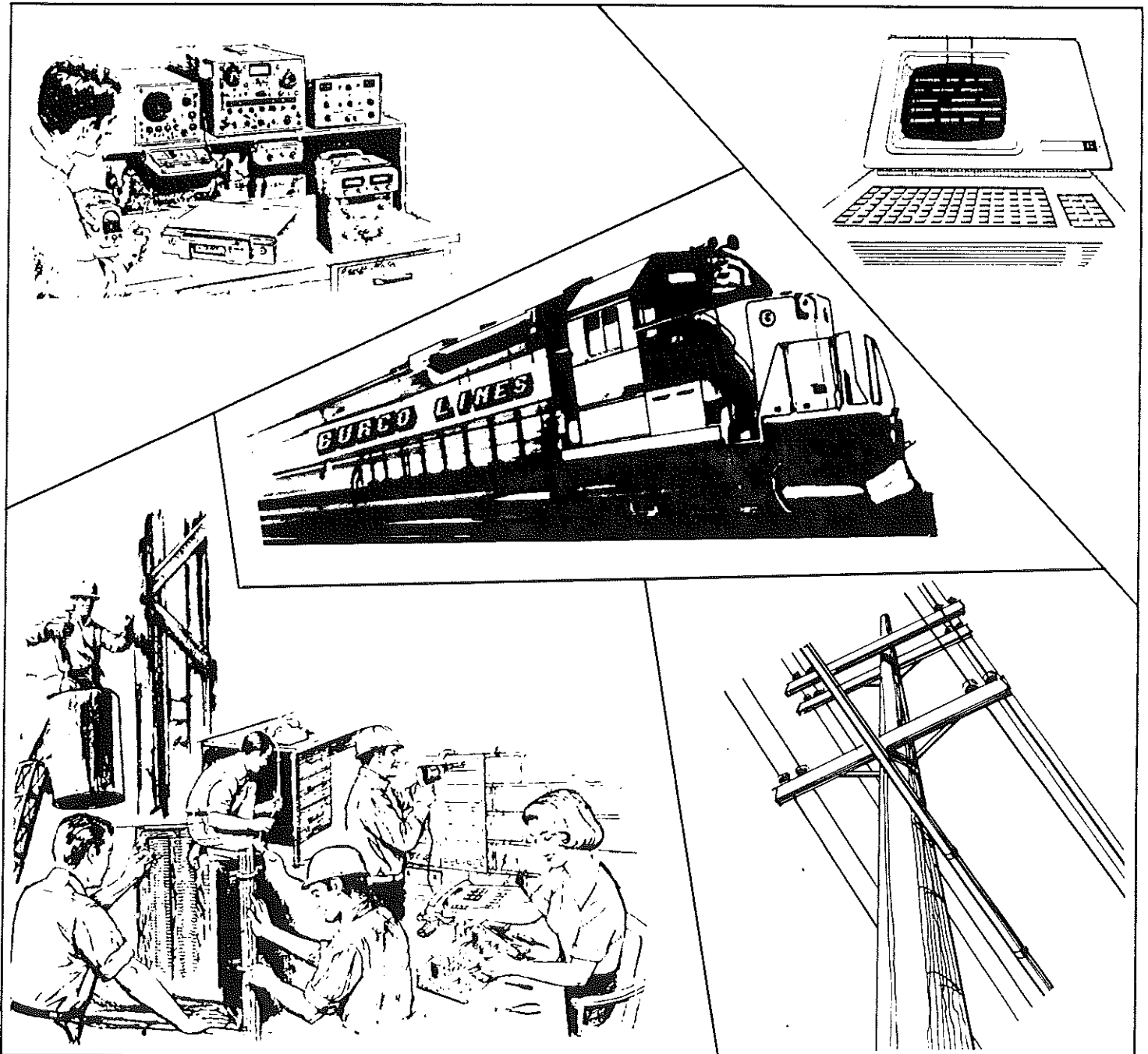
# Burco

DISTRIBUTORS

D. D. HOCK

DEC 08 1987

**A SUPPLIERS LISTING OF TELECOMMUNICATION,  
ELECTRONIC AND DATA PRODUCTS FOR THE RAILROAD,  
UTILITY AND TELEPHONE INDUSTRIES**



**ACS (Telectret)**

Headsets

**AMP**Connectors  
Terminals**Aines Mfg.**Test Sets  
Tone Senders and Probes**Alcoa Conductors  
Products Co.**Copperweld & Alum-O-Weld  
Products**Alexander**

Batteries

**Antenna Specialist**

Two-Way Radio Antennas

**Arminger & Associates**Modular Data & Voice  
Connecting Blocks**Arnco**Inner Duct  
Fiber Optic Pulling & Placement  
Products**Arrow**Staplers  
Staples**Audiosears**Headsets  
Handsets**B & A Mfg.**

Drill Bits

**Bartlett**

Tree Trimming Equipment

**Bashlin**Pole Climbing Equipment  
Rubber Gloves  
Tools**Beckman**Meters  
Test Equipment**Benner Nawman**Service Boxes  
Telephone Booths  
Wire/Cable Cutting Tools**Bogen**Paging Amplifiers  
Paging Speakers  
Talk Back Amplifiers**Brightstar**

Flashlights

**Burco Distributors**Custom Designed Products  
Connectorized Cables**Buscom Systems**Dialers  
Auto Dialers**Buss**

Fuses

**Bytcom**

Modems

**Cablewave**

Antenna Cable &amp; Fittings

**Canada Wire**Inside Telephone Cable  
Outside Plant Telephone Cable  
Plenum Cable**Carolina Galvanizing**

Ground Rods

**Centurian**Batteries  
Antennas**Coil Sales & Mfg. Co.**Load Coils  
Service Boxes**Commercial Telephone  
Group, Inc.**400 Type Line Cards  
Two Line Telephones**Cooper Group**Crescent Tools,  
Lufkin, Weller,  
Wiss Scissors, Xcelite,  
Boker, Nicholson, Plumb**Cushcraft**

Antennas

**Dek**

Wire &amp; Cable Fastners

**Delos**

Business Telephones

**Diamond/U.S.E.**

Concrete &amp; Wall Fastners

**Duracell**

Batteries

**Edwards**Control & Communication  
Signaling Products**Elgin Electronics**Power Supplies  
Data Couplers**Ericson**Electric Plugs & Connectors  
Drop Cords**Essex**Inside & Outside Plant  
Telephone Wire & Cable**Eveready**Batteries  
Flashlights**Flexiduct**

Wire &amp; Cable Duct

**Floyd Bell**

Electronic Ringers

**Fourjay**Speakers  
Horns & Accessories**General Cable**Inside & Outside Plant  
Telephone Wire & Cable**General Electric**

Two Way Radio Parts

**Gott Mfg. Co.**

Water Coolers

**Harris**

Two-Way Radio Parts

**Hastings**

Protective Equipment (High Voltage)

**Hi Temp**Plenum Cable (Telephone,  
Data & Signal)**Homaco**Cable Runways  
Frames  
Relay Racks  
Terminal Blocks**Hooven & Allison Co.**

Manila &amp; Polypropylene Rope

**ITW Linx (Fastex)**Station, PBX Installation Products,  
Backboards  
Protection Devices**Indiana Wire & Steel**Galvanized Strand  
Lashing Wire**Irwin**

Drill Bits

**ITT Blackburn**Electrical Connectors  
Ground Rods  
Clamps**Jonard**

Electronic Tools &amp; Kits

**Joslyn**

Protectors

**Klein**Hand Tools  
Lineman Equipment  
Safety Equipment**Littelfuse**

Fuses

**Louisville Ladder**

Ladders (All Types)

**Lynn Electronics**Telephone Cords  
Jack Field Cords**3M Electro Products**Tapes  
Electrical Connectors & Splice  
Kits

# WHO IS BURCO?

WE ARE DISTRIBUTORS OF SIGNAL  
AND COMMUNICATION PRODUCTS.

OUR CUSTOMERS ARE INDUSTRIAL ACCOUNTS:

CSX	AMERICAN ELECTRIC POWER
CONRAIL	ASHLAND OIL
BELL SOUTH	BELL ATLANTIC
GRAND TRUNK	AT&T TECHNOLOGY
AMTRAK	VIRGINIA ELECTRIC POWER CO.
NORFOLK SOUTHERN	

WE MANUFACTURE:

CUSTOM CABLES  
LOCAL BATTERY TELEPHONES (ALL TYPES)  
SIMPLEX ADAPTER FOR 4 WIRE SERVICE  
HANDSETS

WE SELL AND REPAIR PLANTRONICS HEADSETS

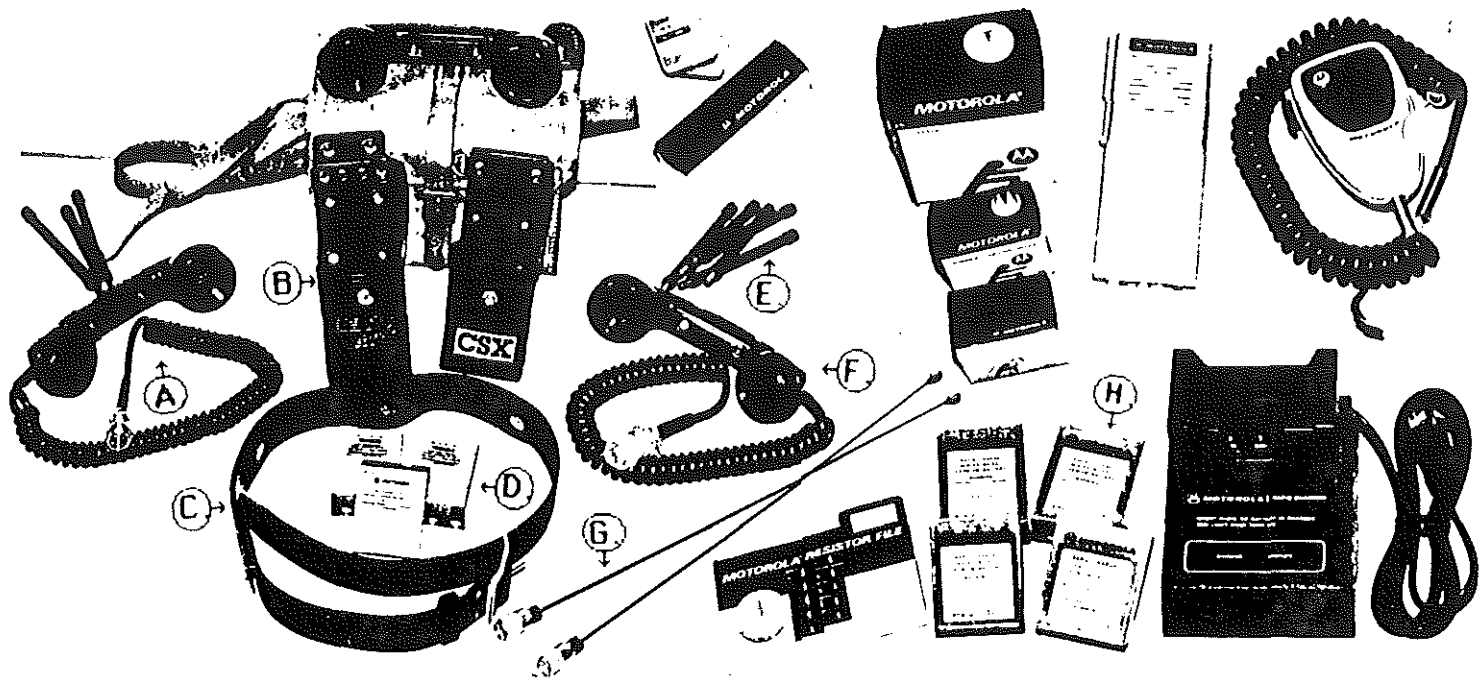
WE HAVE AVAILABLE THE ENGINEERING AND MANUFACTURING  
SERVICES OF TELEPLEX. (BRIDGES, AMPLIFIERS AND SIGNALING  
EQUIPMENT)

WE ARE AN INDEPENDENT SUPPLIER OF  
MOTOROLA RADIO REPAIR PARTS AND SERVICE AIDS.

WE WILL WAREHOUSE AND STOCK S&C MATERIAL.  
WE WILL FIND THE HARD TO GET ITEM YOU NEED.

GIVE US A CALL  
1-800-821-2122

# TWO-WAY RADIO PARTS AND ACCESSORIES



BURCO DISTRIBUTORS IS AN INDEPENDENT SUPPLIER OF MOTOROLA RADIO PARTS AND ACCESSORIES. WE CAN CUSTOMIZE A PARTS PROGRAM WITH EXCELLENT PRICING AND INOVATIVE APPROACHES TO MEET TODAYS DEMANDING REQUIREMENTS.

BURCO ALSO PROVIDES CUSTOMIZED HANDSETS, PRIVATE LABELED BATTERIES AND LEATHER GOODS.

OTHER SERVICES INCLUDE RADIO REPAIR AND "ON LINE" COMPUTER STATUS FOR MAJOR ACCOUNTS.

## A. PT300 TYPE HANDSET

PUSH TO TALK - 4 PIN PLUG  
ORDER BURCO # 300-0502

## B. CUSTOMIZED RADIO CASES W/CO. NAME

1. LONG CASE WITH STRAPS  
ORDER BURCO # 462-0001
2. SHORT CASE WITH STRAPS  
ORDER BURCO # 462-0007

## C. RADIO BELT

ONE SIZE FITS ALL  
ORDER BURCO # 462-0002

## D. PRIVATE LABEL RADIO BATTERIES

1. RAPID CHARGE NICAD FOR MT500 TYPE RADIO. HIGH QUALITY G.E. CELLS- 13 MO. WARRANTY. RATED AMONG BEST QUALITY IN INDEPENDENT TESTS.  
ORDER BURCO # 150-0005
2. ALKALINE BATTERIES FOR MT500 TYPE RADIO  
ORDER BURCO # 131-0045

## E. "RUBBER DUCK" ANTENNA

VAT DIPPED 150.8-162 MHZ  
THREADED STUD MOUNT  
ORDER BURCO # 462-0004  
PL259 TYPE MOUNT  
ORDER BURCO # 462-0005  
OTHER TYPES ALSO AVAILABLE

## F. LOCOMOTIVE HANDSET

1. HIGH QUALITY, RUGGED CORD, 6 PIN PLUG, AND CARBON MIC  
ORDER BURCO # 115-0002
2. DYNAMIC MICROPHONE VERSION  
ORDER BURCO # 115-0015

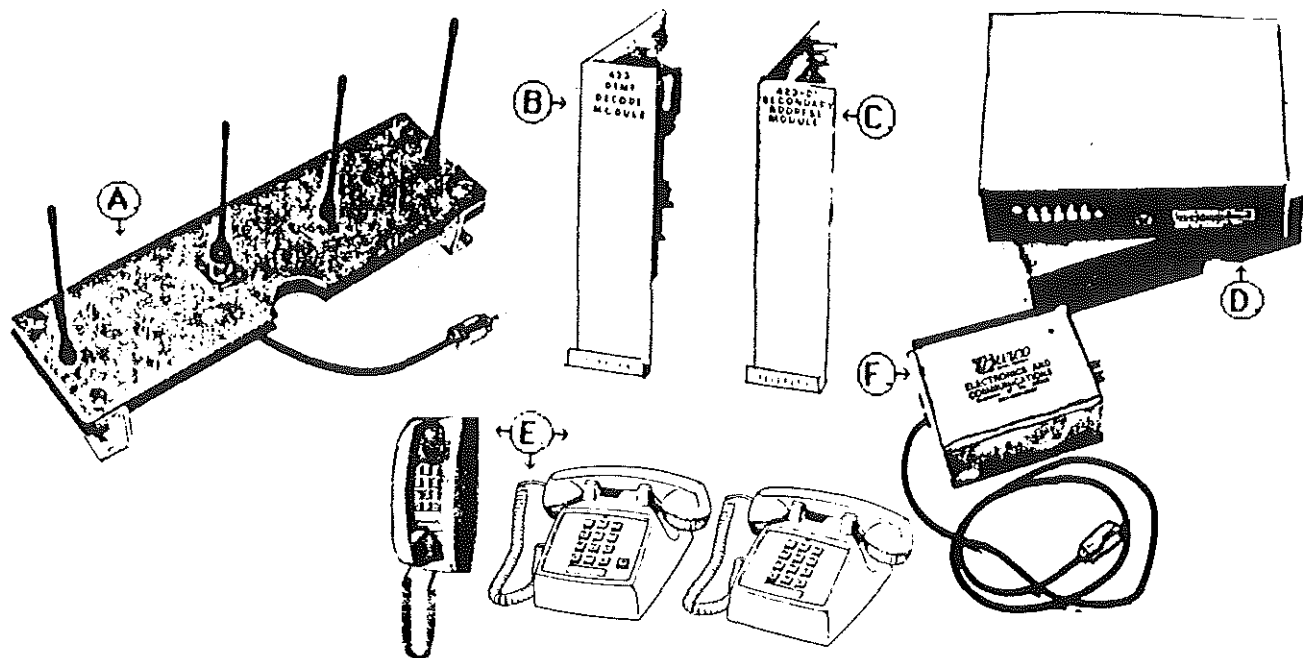
## G. LOCOMOTIVE WHIP ANTENNA

EFFICIENT LOW COST 150.8-162 MHZ RANGE  
ORDER BURCO # 176-0001

## H. MOTOROLA RADIO BATTERIES

1. RAPID CHARGE NI-CAD MT500 BATTERY (NLN-4463A)(60-5742E01)  
THE QUALITY STANDARD  
ORDER BURCO # 300-3737
2. NICAD BATTERY HT200  
MOTOROLA # 60-84735H01  
ORDER BURCO # 300-0485
3. ALKALINE BATTERIES MT500 (NLN-7212A)(60-5460J01)  
ORDER BURCO # 300-0555

NOTE: MANY OTHER BATTERIES, PARTS, AND ACCESSORIES ARE AVAILABLE FROM BURCO. WE ARE ALSO A DISTRIBUTOR FOR HARMON, RCA, AND GE.



#### **A. END OF TRAIN ANTENNA**

THE BURCO E.O.T. ANTENNA IS A MODIFIED FOUR ELEMENT YAGI ARRAY FOR USE IN THE UHF 406-512 MHZ RANGE. MAXIMIZING BOTH FRONT AND REAR GAIN WITHOUT EXCESSIVE HEIGHT AND PROVIDING ADEQUATE OMNI-DIRECTIONAL CHARACTERISTICS ARE PRIMARY DESIGN CRITERIA.

MOUNTING DESIGN, COAXIAL CABLE LENGTHS, AND CONNECTOR MAY BE VARIED FOR USER APPLICATION.

**ORDER BURCO \* 131-0301**

#### **B. TELEPLEX DTMF DECODER**

THIS DECODER'S CARD DESIGN MOUNTS IN A STANDARD 19" COMMUNICATION RACK OR IT'S OWN BOX. THE UNIT PROVIDES A SINGLE ADDRESS OF 1, 2, 3, OR 4 DIGIT OPERATION. UPON RECEIVING A VALID ADDRESS, THE DECODER RESPONDS WITH A 1900 HZ RINGBACK TONE, A TWO SECOND CONTACT CLOSURE, LATCHED CONTACT CLOSURE, AND A LATCHED LAMP DRIVER. THE UNIT OPERATES OFF OF - 24/48 VDC AND WILL DRIVE UP TO 100 SECONDARY ADDRESS MODULES.

**ORDER BURCO \* 527-0022**

**W/BOX \* 527-0017**

#### **C. SECONDARY ADDRESS MODULE**

THE TELEPLEX SECONDARY ADDRESS MODULE PERMITS STRAPPING OF EITHER A SINGLE ADDRESS OF UP TO 7 DIGITS OR TWO ADDRESSES UP TO 4 DIGITS IN LENGTH.

THE UNIT INTERFACES WITH THE TELEPLEX DTMF MULTI-FREQUENCY DECODER. EACH ADDRESS PULLS A MOMENTARY RELAY FOR 2 SECONDS. A TONE SIGNAL IS SENT BACK TO THE CALLING PARTY SIGNIFYING A COMPLETELY DECODED ADDRESS. EACH DECODED ADDRESS WILL PROVIDE A LATCHED RELAY CLOSURE TO BE USED AS A CONTROL FUNCTION.

**ORDER BURCO \* 527-0019**

#### **D. 12-18 VOLT POWER CONVERTER**

THE 12 TO 18 VOLT SWITCHING REGULATOR PROVIDES AN 18 VOLT SOURCE DERIVED FROM A 12 VOLT BATTERY SUPPLY. MANY SIGNAL LOCATIONS HAVE STANDARD 12 VOLT BATTERY INSTALLATIONS. THE SWITCHING REGULATOR ALLOWS A STEP-UP VOLTAGE TO 18V FOR EQUIPMENT REQUIRING A GREATER VOLTAGE

**ORDER BURCO \* 131-0609**

#### **E. TELEPHONES**

THESE PHONES MANUFACTURED BY DELOS ARE BUSINESS QUALITY SETS. THE COMPONENT PARTS ARE COMPLETELY INTERCHANGEABLE WITH OTHER TRADITIONAL PHONES OF THIS DESIGN. THE PHONES ARE HEARING AID COMPATIBLE AND OFFER A 30 MONTH LIMITED WARRANTY.

"A" LEAD CONTROL IS OPTIONAL.

1. STANDARD DESK TELEPHONE (TONE)

**ASH ORDER BURCO \* 159-0006**

**BROWN ORDER BURCO \* 159-0009**

2. STANDARD TONE DESK SET WITH  
TRANSFER ACCESS (TAP)

**ASH ORDER BURCO \* 159-0011**

**BROWN ORDER BURCO \* 159-0014**

3. STANDARD MINI WALL SET (TONE)

**ASH ORDER BURCO \* 159-0036**

**BROWN ORDER BURCO \* 159-0039**

4. STANDARD TONE MINI WALL SET WITH  
TRANSFER ACCESS (TAP)

**ASH ORDER BURCO \***

**BROWN ORDER BURCO \***

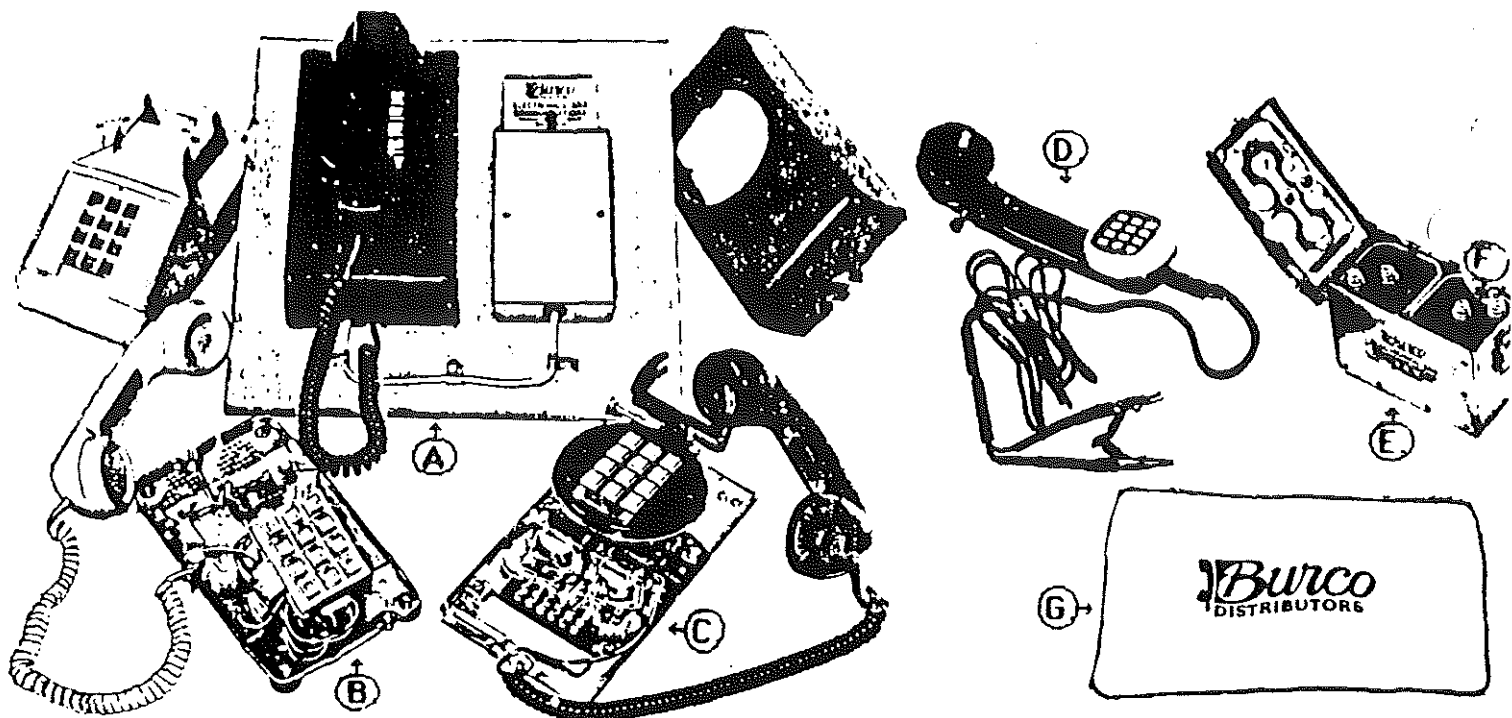
5. TWO LINE WALL/DESK PHONE

**ORDER BURCO \* 159-0001**

#### **F. R.F. DETECTOR**

THE RF DETECTOR INSURES THE TRANSMISSION OF HOT BOX INFORMATION TO THE LOCOMOTIVE RADIO UNIT. A STANDARD RADIO SUCH AS THE PT300 IS USED TO RELAY HOT BOX INFORMATION. IF RF IS DETECTED THE DETECTOR WILL NOT ALLOW TRANSMISSION UNTIL A CLEAR CHANNEL IS AVAILABLE.

**ORDER BURCO \* 131-0608**



BURCO MANUFACTURES SEVERAL VERSIONS OF LOCAL BATTERY TELEPHONES AND WILL CUSTOM BUILD TO YOUR SPECIFICATIONS UPON REQUEST.

THE PHONE CAN BE USED ON BLOCK, YARD, MESSAGE, DISPATCHER, CODE OR LEASED LINES.

WHEN USED WITH OUR TELEPLEX DECODER, A LATCH FUNCTION IS AVAILABLE FOR CUT THROUGH CONTROL OR ANY FUNCTION REQUIRING CONTACT CONTROL. (TONE VERSIONS ONLY)

#### **A. LOCAL BATTERY TELEPHONE**

2 WIRE/4 WIRE SWITCHABLE  
WALL MOUNT- INCLUDES BACKBOARD  
TOUCH TONE MODEL TTM-CH5000  
**ORDER BURCO \* 131-5000**

#### **B. TWO WIRE LOCAL BATTERY TELEPHONE**

1. DESK MODEL TOUCH TONE TTM-CH2000  
**ORDER BURCO \* 131-2000**
2. WALL MODEL TOUCH TONE TTM-CH1000  
**ORDER BURCO \* 131-1000**
3. DESK MODEL NON-SIGNALING TTM-CH4000  
**ORDER BURCO \* 131-4000**
4. WALL MODEL NON-SIGNALING TTM-CH3000  
**ORDER BURCO \* 131-3000**

#### **C. FOUR WIRE LOCAL BATTERY TELEPHONE**

1. WALL MODEL TOUCH TONE TTM-CH6000  
**ORDER BURCO \* 131-6000**
2. DESK MODEL TOUCH TONE TTM-CH7000  
**ORDER BURCO \* 131-7000**
3. WALL MODEL NON-SIGNALING TTM-CH6001  
**ORDER BURCO \* 131-6001**
4. DESK MODEL NON-SIGNALING TTM-CH6002  
**ORDER BURCO \* 131-6002**

#### **D. LOCAL BATTERY MINI-PHONE**

BURCO'S MINIPHONE COMES COMPLETE WITH BATTERY, HEAVY DUTY CORD W/ALLIGATOR CLIPS, AND HANDY CARRYING POUCH

1. MINIPHONE WITH TONE SIGNALING TTM-CH9000  
**ORDER BURCO \* 131-9000**
2. MINIPHONE NON-SIGNALING TTM-CH9000A  
**ORDER BURCO \* 131-9001**

#### **E. BATTERY BOX**

THIS RUGGED BOX IS MADE OF STAINLESS STEEL. THE BOX ACCOMMODATES TWO 6 VOLT LANTERN BATTERIES. A "BUILT IN" CIRCUIT BOARD IN THE LID, HEAVY DUTY SCREW TERMINALS, AND A "POSITIVE LATCHING" LID ARE ALSO INCORPORATED. THE BOX HAS BUILT IN MOUNTING EARS  
MODEL CH-1025

**ORDER BURCO \* 131-0021**

#### **F. LANTERN BATTERIES**

SPRING TERMINALS HEAVY DUTY  
ALKALINE TYPE (RECOMMENDED)  
**ORDER BURCO \* 145-0026**  
ZINC-CARBON TYPE  
**ORDER BURCO \* 145-0038**

#### **G. "BURCO BAG"**

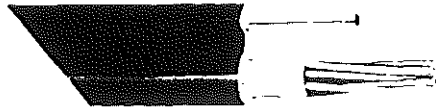
HANDY COMPANION TO THE MINI-PHONE OR AN EXCELLENT LITTLE TOOL POUCH  
**ORDER BURCO \* 201-0021**

#### **H. SIMPLEX ADAPTER (NOT PICTURED)**

ENABLES A LOCAL BATTERY TYPE PHONE TO UTILIZE TELEPHONE COMPANY FURNISHED BATTERY MOUNTS INSIDE PHONE  
**ORDER BURCO \* 131-0022**

# Wire and Cable

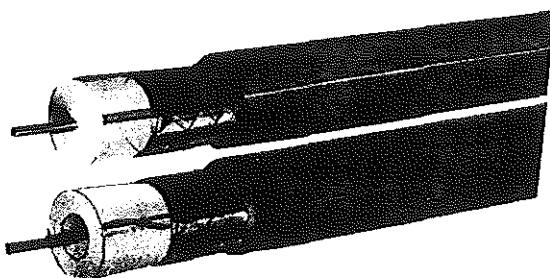
## Exchange Cable



ALPETH PIC (ALPIC)	Aerial distribution non-squirrel blocks or highway aerial feeder 600 pairs or less	Air core, PE or PP insulation, coated aluminum shield, bonded polyethylene jacket
APSP	Aerial distribution Squirrel conditions  Pressurized u.g. dips and risers or small u.g. distribution	Air core, PE or PP insulation, coated aluminum shield, bonded inner polyethylene jacket, unsoldered treated steel armor, flooding compound, outer polyethylene jacket
APSP FIG. 8	Aerial distribution squirrel conditions urban block cables (back yards) and sheltered streets.	Same as APSP but includes 1/4" high strength integral messenger in outer jacket to make cable self supporting (cross section resembles Fig. 8)
PAP	Pressurized buried feeder or trunk. Pressurized aerial trunk under 400 prs.	Air core, PE or PP insulation, polyethylene inner jacket, coated aluminum shield, bonded polyethylene jacket.
STALPETH	Pressurized u.g. feeder and trunk. Aerial trunk 400 pairs or larger. Aerial feeder over 600 pairs.	Air core, pulp or paper (spiral wrap), waterproof paper core covering, aluminum shield, soldered seam treated steel armor, flooding compound, polyethylene outer jacket.
FILLED ALPIC	Non-pressurized buried or u.g. distribution. Non-pressurized dips & risers.	Jelly filled core, PE or PP insulation, coated aluminum shield, flooding compound or bonded, polyethylene jacket.
FILLED FOAMSKIN ALPIC	Same as filled ALPIC	Same as filled ALPIC except conductor insulation is expanded PE or PP with a high density PE or PP skin.
SCREENED	Carrier Circuits	Cables are 19, 22 or 24 AWG. Solid annealed copper conductors, insulated with either propylene/ethylene copolymer compound, paired, assembled into the core with an insulated internal shield to electronically separate the core into two or more sections.

## COAXIAL CABLE

Used for various applications such as DATA TRANSMISSION, VIDEO, CATV, etc. Normal construction is a single center conductor of stranded or solid copper or copper clad steel with a polyethylene insulation followed by a shield of aluminum foil, braided copper or foil with an aluminum braid then an overall jacket of Black PVC or polyethylene. May be used indoor or outdoors.



## Inside Cable

These are plastic (PVC) insulated and jacketed, unshielded cables used for general inside wiring. Inside cable has cross-reference band-marked color coding for easy circuit identification.

24 AWG: 2 thru 200 pair  
22 AWG: 2 thru 100 pair  
19 AWG: 6, 12 and 25 pair  
Sh'd 24 AWG: 2, 3, 4, 12 & 25 pair  
*Also available for air plenum installation without costly metal duct!*

## Standard Connectorized Cables

- ★ 25 Pair 24 AWG single or double end
- ★ 50 Pair 24 AWG single or double end

We also connectorize 75, 100 and 200 pair cables... as well as plenum cables!

## Cross-Connect Wires

24 AWG: 1, 2 and 3 Pair

These are non-jacketed twisted pair cables having cross-reference band-marked color coding for easy circuit identification.

They are used for "cross-connecting" terminals and for pre-wiring in new buildings before walls and partitions are closed.

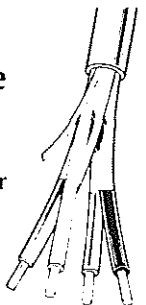
### Accessories:

R66 M-Series and B-Series "quick connect" terminal blocks available with this wire.

NEC® Article 800

## Inside Telephone Cable & Wire

- 24 AWG: 2, 3, 4, 6, 25, 50, 75, 100 pair
- 4 cond. 24 AWG
- 2 cond. 22 AWG
- 4 cond. 22 AWG
- 2 cond. 18 AWG

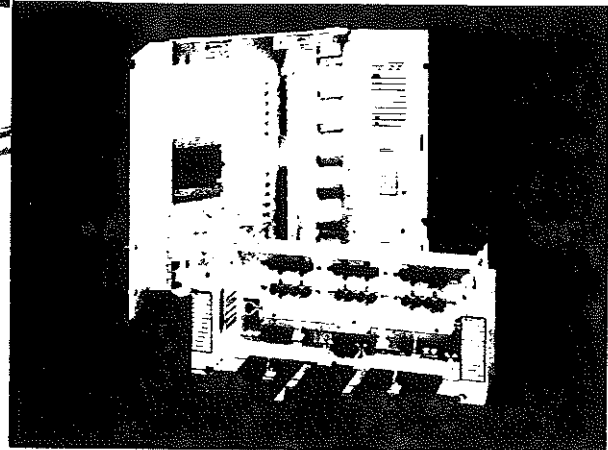
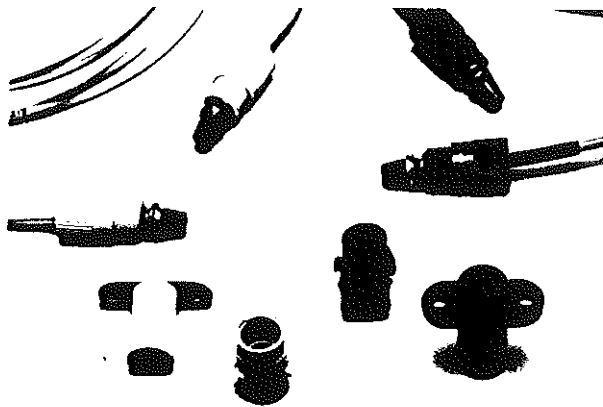


Other cable sizes and designs are also available for no-duct, air plenum installation!

## FIBER OPTICS

Dorran Photonics Inc./3M

3M TelComm Products Division



**Hybrid Cable Assemblies  
and Pigtails**

**Customer Premise Fiber  
Distribution Unit**

**BICON CYCON  
Field Termination Kits**

**Cable Assemblies and Couplers**

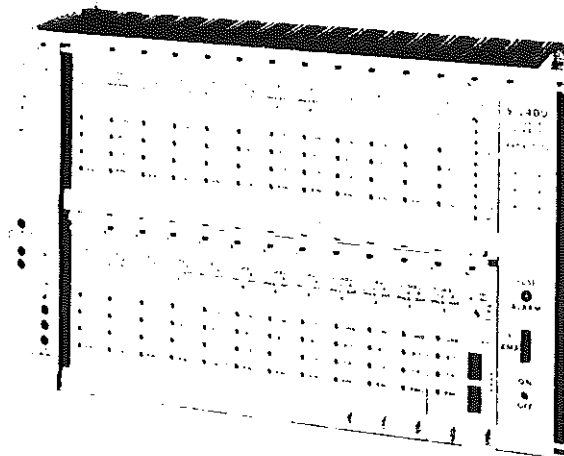
## TRANSMISSION

### S-24DU Digital Loop Carrier Systems

The Seiscor S-24DU gives you state-of-the-art digital service - for rural or urban applications-at a price you never thought possible! You get a fully-featured 24-channel digital carrier system that's very affordable for your low to medium density areas.

- operates over standard North American T1 span lines
- modular configuration
- 24, 72 and 96 channel capacity remote terminal housings
- provides a variety of voice, special service and data channel cards

**24-Channel Central Office  
Shelf (S-24DU)**



### Seiscor Technologies

A Raytheon Company

**Seiscor Technologies  
offers you:**

- Both analog and digital subscriber loop carrier products.
- Off-the-shelf product availability for fast turnaround.
- Field service and application engineering assistance.
- Fast factory repair and return service.
- 800 number for information and service.



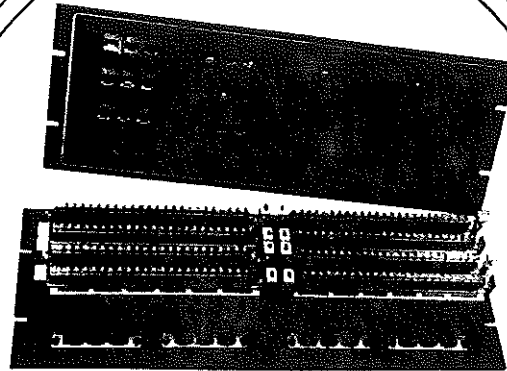
# DATA

## Network Integrated Devices

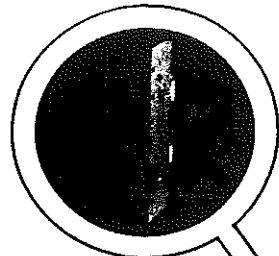


ARMIGER and Associates, Inc.

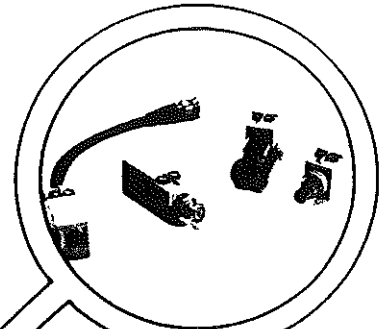
These devices were designed to reduce cost per connection while increasing user flexibility, and ease of installations and changes.



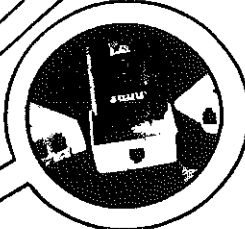
Modular Patch Panels  
110 or 25 Pair Type  
Connectors



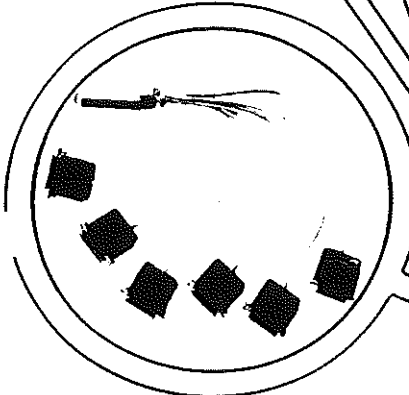
Multi-Jak



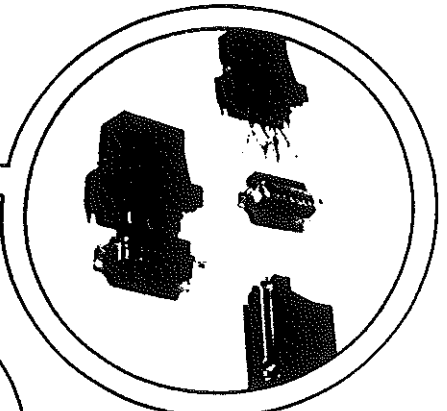
Coaxial &  
Twinaxial Balun  
Adapters



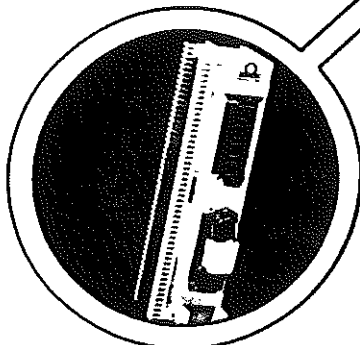
103 & 104  
Modular/110  
Adapter



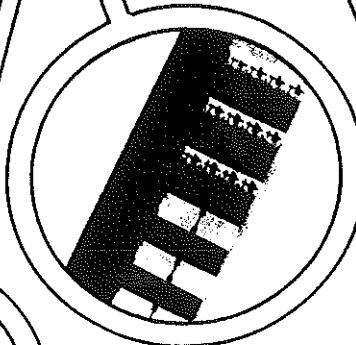
RS232 Harness



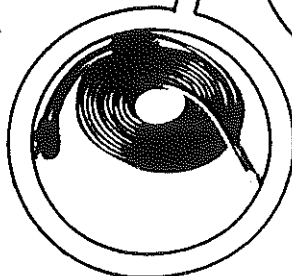
RS232 Data Adapter



Modular Jak Block

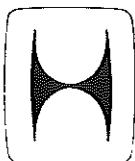


858A Modular/110  
Adapter



353A Balun Assembly

HOMACO, INC.



**Ortronics**

Telephone & Data

Integrated Wiring System



**SABER** COMPONENTS CORPORATION

# TELEPHONE/KEY TELEPHONE EQUIPMENT

## Panasonic



## Southwestern Bell Freedom Phone

### 614

**Features include:** Speed dialing for 90 stations plus auto dialing for 10 personal numbers — 3 party conference — Distinctive line status — Hold recall — Incoming ring assignment — Music on hold from KSU (two melodies) or thru external music source — Toll restriction — On hook dialing — Privacy — Save

**Intercom features:** Hands free answer back — 3 party conference — Hold and transfer — Individual page by voice or tone — All page — External page — Facilitates the connection of up to 6 CO lines, 14 extensions, 2 door units, 3 intercom paths, 1 paging path

**PLEASE NOTE:** Initial capacity is 4 CO lines, \* extensions — VA 20844 must be added for maximum capacity of 6 CO lines — For expansion of extensions, VA 20842 must be added for every two above initial capacity

#### VA 61410 KSU

#### VA 61420 Standard Key Telephone

On hook dialing — 10 station autodialer — Flash — Save & redial — Conference — Hold — Desk/wall

#### VA 61421 Key Telephone with Speakerphone

On hook dialing — Hands free answer back — 10 station autodialer — Flash — Save & redial — Conference — Hold — Desk/wall

#### VA 61422 \*Speakerphone with LCD Display

Same features as VA 61421 plus 8 digit LCD display for time, clock, number dialed  
\*Required for system programming

#### VA 61423 Speakerphone with Busy Lamp Field

Same features as VA 61422 plus busy or free status of other extensions are displayed by LED

#### VA 20842 Expansion Card I

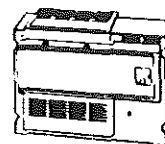
For two more key telephones

#### VA 20843 Expansion Card II

For two single line telephones

#### VA 20844 Expansion Card III

For two CO lines



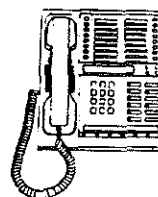
#### FREEDOM PHONE FS-246

- Expandable Key System For 2, 4, Or 6 Lines, And Up To 16 Ext.



#### FREEDOM PHONE FS-800

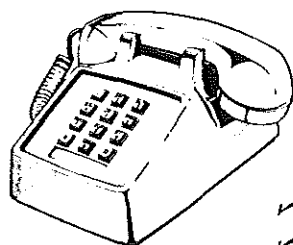
- 6-Line Key Telephone With LED For Each Line
- Tone/Pulse Switchable
- Three Number Memory
- Call Waiting With LED
- Conference Key
- Call Transfer Key
- Hold, Mute, And Privacy Keys
- Redial And Busy Redial
- Intercom
- Desk/Wall Mount



#### FREEDOM PHONE FS-900

(Same Features As FS-800, PLUS:)

- 16 Number Speed Dialer
- Function Display For Clock/Alarm, Timer-Counter, Number Dialed, Programming Information, And Diagnosis (FS-25 Or FS-30 Required)
- Built-In Speakerphone



#### D-2500

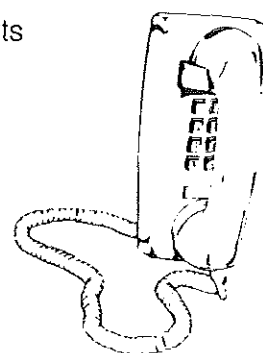
## TELEPHONES FEATURES

- ✓ Complete interchangeability with standard component parts
- ✓ Hearing Aid compatible
- ✓ 30 month limited warranty
- ✓ A lead control

- D-2500 Standard desk set
- D-2510 Standard desk set with transfer access (TAP)
- D-2520 Standard desk set with message waiting light (90V)
- D-2530 Standard desk set with transfer access (TAP) and message waiting light

- D-2554 Standard mini wall set
- D-2554-10 Standard mini wall set with transfer access (TAP)
- D-2554-20 Standard mini wall set with message waiting light (90V)
- D-2554-30 Standard mini wall set with transfer access (TAP) and message waiting light

#### D-2554



# TELEPHONE ACCESSORIES

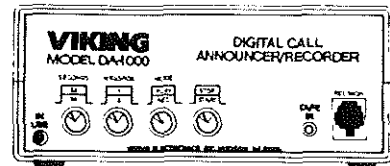
## ONE AND THREE CHANNEL DIGITAL VOICE RECORDERS

Designed for A.C.D., U.C.D. and Centrex, C.O. and P.B.X. announce only applications. Model DVA-1000, 1003 can directly replace mechanical tape announcement devices in new or existing high usage applications. Automatic Announce cycle adjustment to message length, disconnect on C.P.C. and instantaneous rewind provide increased call handling capacity. Battery back-up protects the DVA-1000 and DVA-1003 1 megabit of solid-state memory.

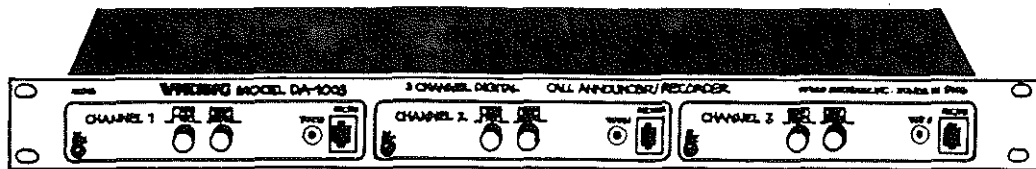
The DVA-1000 is a single channel desk or shelf mount version with switch selectable "Day/Night" message as well as 16 or 32K bit digitizing rate.

The DVA-1003 is a 3 channel rack mounted unit. Each channel is completely independent and each provides up to 32 seconds of record/playback time.

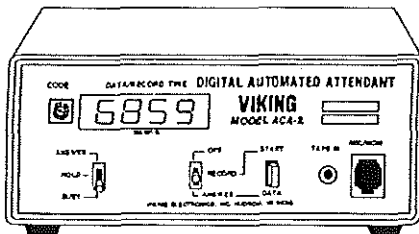
- Record Time: 1 to 64 seconds
- Power: 48V D.C. or 115V A.C. (both supplied)
- Output 1: Ring Trip Circuit for Standard Centrex, C.O. or PBX station lines
- Output 2: 600 ohm with start request input and busy/available output (E & M)
- Battery Back Up: Included
- Tape Down Load Input: Included
- Record/Monitor: Use a standard "G" or "K" handset



MODEL  
DVA-1000



MODEL  
DVA-1003

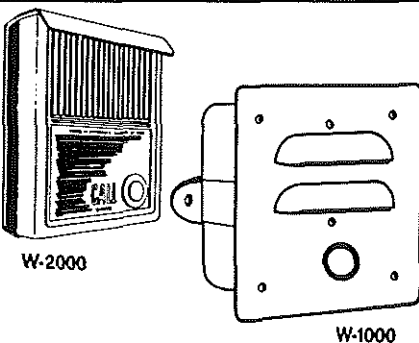


### Automated Attendant with Digital Voice Recorder

Designed to answer calls promptly and courteously on the first ring. The ACA-2 allows the caller to self-direct calls to a multi-digit extension or to a department using a single digit. Callers will be connected to a live attendant if they do not have a Touch-Tone phone or fail to dial.

- For use behind P.B.X.
- Centrex compatible
- Field recordable digital voice messages
- Touch-Tones are accepted during messages for fast call processing.
- Process up to 8 calls per minute
- Digital display for Statistics and Record-time
- Rechargeable back-up battery included

MODEL ACA-2

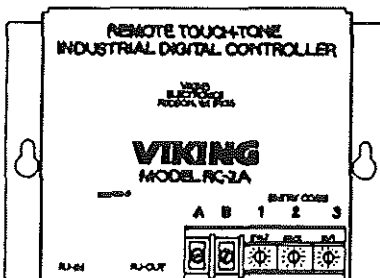


### HANDSFREE OUTSIDE DOOR BOX

DOOR ENTRY SYSTEM FOR ANY ELECTRONIC OR 1A2 KEY, PBX OR "NO KSU" PHONE

- Residential or Industrial Weather Resistant Enclosure
- Generates 2 seconds of ring voltage when "call" button is pressed
- Converse "HANDSFREE" with visitors from your phone prior to allowing entry
- Connect to an unused line input on any phone system
- Power supply included
- Approved by major manufacturers of Key Systems

MODEL W-1000  
MODEL W-2000



### REMOTE D.T.M.F. CONTROLLER

FOR ON/OFF PREMISE CONTROL APPLICATIONS UTILIZING A STANDARD TOUCH-TONE TELEPHONE

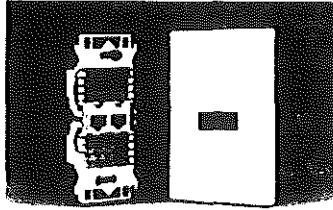
- Use with the W-1000/W-2000 to open a door from any phone in your system
- Operates on a shared or dedicated phone line
- Field programmable 3 digit security code
- Will accept speed dialing
- N.O./N.C. Relay output - field selectable
- Power supply included

MODEL RC-2A



# Station Apparatus-MODULAR HARDWARE

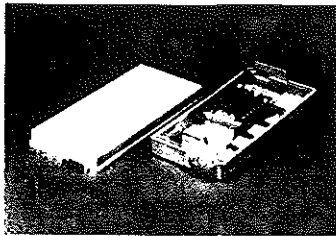
## Flush Mount Quick Jack™



Mounting directly on any standard electrical box, or on virtually any surface with the optional backbox, connections are made rapidly and reliably...some 80% faster than ordinary screw terminals. The snap cover (no screws) allows easy access. Clip connections face the front. Virtually any combination of six or eight

position jacks, from two to eight conductors, is available.

## RJ Quick Jack™



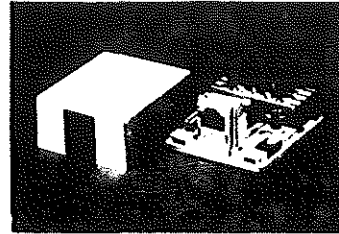
Leviton's RJ Quick Jack provides fast installation with maximum connection flexibility, reliability and performance for non-connectorized new or embedded IW. Highest quality jack contacts and FCC Spec-grade 66-clips exceed token ring LAN requirements. As many as four modular jacks, six or eight position, (or Mini Baluns™) connect

to a miniature 66 block. Leviton's Mini-Balun (catalog no. 41200), occupying a single "jack" position, punches down on the mini block with a BNC connector. The Mini Balun is suitable in the 3270 type-A environment up to 1200 ft. A dual connector "Wangnet" version (catalog no. 41201) is also available.

\*Wangnet is a registered trademark of Wang.

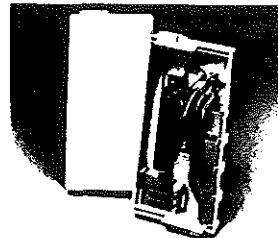
# LEVITON®

## 625 Quick Jack™



Leviton's LAN compatible 625 Quick-Jack, for all surface-mount modular voice/data applications, combines full FCC-Spec integrity with the proven speed and reliability of standard 66-clip terminations. Four-, six- and eight-conductor (also 31X) versions provide unique installation flexibility for most surfaces.

## Adapter Plus™ for Connectorized IW



Leviton's Adapter Plus instantly adapts 25-pair wiring with one to four jacks or Mini Baluns terminated to a 25-pair connector that snaps into place in the base of the unit. Two-, four-, six-, and eight-conductor versions provide unique installation flexibility. A low-profile, snap-lock cover protects internal wiring from moisture and dust.

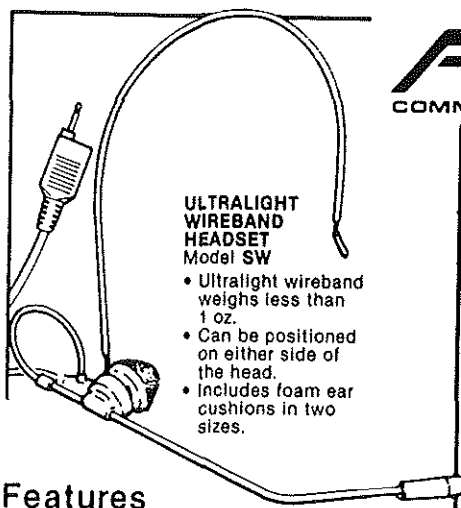
# Telephone Headsets



# PLANTRONICS

## Features

- Quick-Disconnect for user mobility
- Modular connector
- Three position volume control
- Adjustable voice tube
- Adjustable clothing clip
- SoundGuard® system for safe and clear listening levels
- Lightweight contoured capsule (StarSet® II models)
- Lightweight adjustable headband (Supra® models)
- Ultralight cushioned on-the-ear receivers for each ear - binaural, for one ear - monaural (Supra models)



## ULTRALIGHT WIREBAND HEADSET Model SW

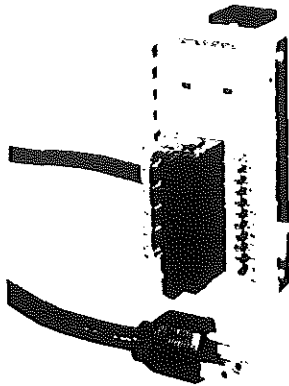
- Ultralight wireband weighs less than 1 oz.
- Can be positioned on either side of the head.
- Includes foam ear cushions in two sizes.

## Features

- Studio quality microphone ... provides true voice reproduction and clarity.
- Fully adjustable wireband headband.
- Full range volume control ... allows fine tuning for each call.
- Quick disconnect ... allows complete user mobility.
- Hookswitch bypass option ... eliminates the need to lift receiver on and off hook.
- Microphone mute switch ... allows private "aside" conversations by momentarily discontinuing transmission.
- Adjustable transmission gain switch ... allows adjustment of transmit level.
- Headset/handset switch ... provides option of using either headset or handset.



# Station Protection



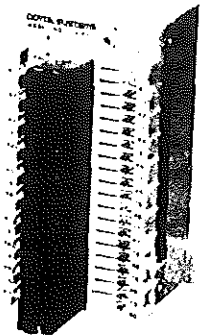
## The Six-Plus™

The Six-Plus™ guards microprocessor controlled equipment connected to both telephone lines and AC power lines from surge damage.

It is recommended for use in protecting all electronic key, small PBX, and microprocessor controlled office equipment. A common ground is shared by the AC and the telephone lines thus guarding against the dangers of ground potential difference. The advanced AC protection circuit provides EMI/RFI noise rejection and isolation, as well as current surge protection. The line protection field accommodates the complete line of Porta Systems' protector modules including the High Speed Delta™.

### Model Numbers:

<b>504PX/AC</b>	Six-Plus™ empty
<b>504PX/ACGT</b>	Six-Plus™ with gas tube modules
<b>504PX/AXF</b>	Six-Plus™ with sneak current fuses
<b>504PX/ACD</b>	Six-Plus™ with High Speed Delta™ modules



## Protector Packs™

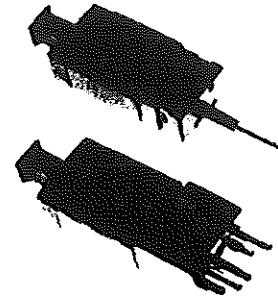
Protector Packs™ come equipped with the protector modules. Protector Packs™ come in 6, 10, and 25 pair configurations with your choice of standard gas tube, sneak current fuse, or High Speed Delta™ protector modules. 66 type quick clip connections are provided for ease of installation.

Protector Packs™ terminate and protect small systems, and are ideal for use with the Six-Plus™ to expand its capacity.

### Model Numbers

<b>504PX26GT</b>	6 Pack with gas tube modules
<b>504PX26F</b>	6 Pack with sneak current fuses
<b>504PX26D</b>	6 Pack with High Speed Delta™ modules
<b>504PX210GT</b>	10 Pack with gas tube modules
<b>504PX210F</b>	10 Pack with sneak current fuses
<b>504PX210D</b>	10 Pack with High Speed Delta™ modules
<b>581P225GT</b>	25 Pack with gas tube modules
<b>581P225D</b>	25 Pack with High Speed Delta™ modules

**porta systems**  
Leaders in Line Technology



## The Delta™ High Speed Protector Module

Porta Systems' gas tube/diode protector module, called the Delta™ is the industry's only patented line protector that can arrest a surge in nanoseconds. The Delta™ contains a 3 element gas tube, and bipolar diode which protect against voltage surges, a heat coil for sneak current protection, and test point contacts. The Delta™ is available in 75V and 230V firing voltages in both the male (5 pin), and female base designs.

They are typically used by interconnect companies, and in private telephone installations, and are recommended for use wherever highly sensitive digital equipment is installed.

### Model Numbers

<b>95BCDXN-75</b>	High Speed Delta™, 75V firing voltage
<b>95BCDXN-230</b>	High Speed Delta™, 230V firing voltage















## Series 24 Building Entrance Terminals

The new Series 24™ offers an extensive selection of input and output options in 25, 50, and 100 pair configurations. All models can be purchased in either male or female base with a variety of cover and locking options. Series 24™ has a stacking ability of up to 500 pairs vertically. Certain configurations are available from stock; call our customer support department for more information.

# Outside Plant Splicing Supplies

TelComm Products Division/3M

SCOTCHLOK CONNECTOR	TYPE CONNECTION	MAXIMUM INSULATION O.D.				CABLE TYPE		PULP OR PAPER*	
		metric (mm)	in.	PIC- UNFILLED metric (mm)	AWG	PIC- FILLED metric (mm)	AWG	metric (mm)	AWG
BUTT SPLICING									
 <b>UR</b>		1,67	.066	.9-.4	19-26	.7-.4	22-26 Note: Can be used on 19 AWG (.9 mm) Foam Insulated Cable	.9-.4	19-26
 <b>UY</b>		1,52	.060	.7-.4	22-26	.7-.4	22-26	.7-.4	22-26
 <b>UAL</b>		2,08 (outside) 1,93 (center)	.082 .076	.9-.5 Cu 1,15-.8 Al	19-24 17-20	.9-.5	19-24	.9-.5	19-24
 <b>ULG</b>		2,08 (outside) 1,93 (center)	.082 .076	.9-.5	19-24	.9-.5	19-24	.9-.5	19-24
 <b>UP2</b>		1,52	.060	—	—	—	—	.7-.4	22-26
 <b>UP3</b>		1,67	.066	—	—	—	—	.9-.4	19-26

## • Scotchlok™ Connectors

E-9Y  
(3-1)



### Scotchlok™ E-9Y Crimping Tool

Stepped jaws and long nose provide parallel crimping action. Features include a side wire cutter, insulated handles and a return spring.

E-9GB  
(15-1)



### Scotchlok™ E-9GB Hand Presser

The E-9GB Scotchlok Brand Hand Presser Crimps Scotchlok Brand Butt and Tap Connectors. It consists of movable and stationary jaws enclosed in the head, movable and stationary handles connected with a pivot pin and a ratchet.

## • 3M Brand Better Buried Closures

Better Buried Closures are designed to be used as a rigid body direct buried splice closure. Sleeve halves and end caps are made of tough, transparent material that withstands acids, detergents, chemicals and other harmful elements and is sturdy enough not to crack during backfilling. The transparency allows proper compound fill verification. The spacer web assures maximum compound effectiveness by channeling compound completely around the splice.

The Better Buried Closure can be filled with either permanent or reenterable encapsulant. When filled with a reenterable encapsulant such as 4441 Gella™, the closure is easily reenterable for splice rework. Better Buried Closures are available in complete kits or as single components to meet every application — direct buried straight and butt splices cable repair, tap splicing, sheath repair and buried service wire installation.

The closures are easily assembled and filled in the field using ordinary hand tools. No special equipment is needed.



## Better Buried Kit Specifications and Closure Selection Guide

Product Description		Maximum Total Pair Capacity By Gage		Approximate Amount Of Compound Required	End Cap Port Diameters				Maximum Splice Openings		
Product Number	Closure Size	4000 DWP	URW/3" Pigtails	Average Splice	Single Entry (Max. Diam.)	Multiple Entry Max. Diam.			Single Sheath	Double Sheath	
						1	2	3		Inner	Outer
BB2 12	2" x 12" (51 mm x 305 mm)	50 pr 24 AWG	25 pr 22 AWG	600 grams (.21 oz)	1.2" 30 mm	1.0" 25 mm	1.0" 25 mm	—	5" 127 mm		
BB2 24	2" x 24" (51 mm x 610 mm)	100 pr 24 AWG	50 pr 22 AWG	1200 grams (.42 oz)	1.2" 30 mm	1.0" 25 mm	1.0" 25 mm	—	17" 432 mm	17" 432 mm	14" 356 mm
BB3 24	3" x 24" (76 mm x 610 mm)	200 pr 24 AWG	100 pr 22 AWG	3000 grams (1.06 oz)	1.7" 43 mm	1.2" 30 mm	1.2" 30 mm	—	17" 432 mm	17" 432 mm	14" 356 mm
BB4 24	4" x 24" (102 mm x 610 mm)	400 pr 24 AWG	200 pr 22 AWG	4500 grams (1.59 oz)	2.0" 50 mm	1.7" 43 mm	1.7" 43 mm	—	17" 432 mm	17" 432 mm	14" 356 mm
BB5 26	5" x 26" (127 mm x 660 mm)	600 pr 24 AWG	300 pr 22 AWG	7200 grams (2.54 oz)	2.4" 60 mm	2.0" 50 mm	2.0" 50 mm	—	19" 483 mm	19" 483 mm	16" 406 mm
BB6 26	6" x 26" (152 mm x 660 mm)	900 pr 24 AWG	450 pr 22 AWG	12500 grams (4.41 oz)	3.3" 84 mm	2.7" 68 mm	2.0" 50 mm	1.5" 40 mm	19" 483 mm	19" 483 mm	16" 406 mm
BB7 26	7" x 26" (179 mm x 660 mm)	1200 pr 24 AWG	600 pr 22 AWG	15000 grams (5.30 oz)	3.6" 92 mm	3.1" 78 mm	2.4" 60 mm	2.0" 50 mm	19" 483 mm	19" 483 mm	16" 406 mm
BB9 26	9" x 26" (229 mm x 660 mm)	2400 pr 26 AWG	900 pr 22 AWG	21000 grams (7.42 oz)	3.8" 97 mm	3.8" 97 mm	3.1" 78 mm	2.4" 60 mm	19" 483 mm	19" 483 mm	16" 406 mm

**3M Static Products**

Static Runners  
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