



# HEAD TELEPHONE SETS

Allen Tel's series of head telephone sets offers the user many special headset combinations not available with the standard set.

The 52AT type single-head telephone set combines the receiver and transmitter in one adjustable unit.

A variety of custom types of headsets can be furnished to fit special requirements. Variations from standard units include double receiver types, special cords,

plugs, switches and a wide choice of wiring options.

By referring to the Headset Selector Charts, which illustrate three basic types of head telephone sets, standard wiring diagrams, and a wide selection of component parts (such as cord switches, cords, plugs and accessory items), the user can easily select the exact head tele-phone set combination for a specific application.

## HEADSET EXAMPLES:



### 52AT-1-KK4-15ft-6-SU-D-ER-2S

Consists of a basic 52AT type headset (receiver and transmitter assembly) e/w an AP15F single headband, 4 conductor, 15-ft. retractile vinyl-jacketed cord, a 600-ohm receiver unit, GB540 universal feed-thru cord switch, an AT327 double 4-conductor plug plus an AP162 ear cushion. Wired as shown in diagram 2S, Headset Selector Chart.



### 52GB-1-L6-7ft-66-SU-E-4D

Consists of a basic 52 type headset and a separate 10A receiver holder mounted on an AP1C double headband, e/w a 6-conductor, 7 ft. straight vinyl-jacketed cord, two 600-ohm receiver units wired in parallel, a GB540 universal feed-thru cord switch, and an AT213 double 6-conductor plug. Wired as shown in diagram 4D, Headset Selector Chart.

## GENERAL INFORMATION

**NOTE:** Refer to Modified Headset Selector Charts for wiring diagrams.

1. Separate piece parts may be ordered from the HEADSET SELECTOR CHART by using the actual part number description.
2. When ordering cords **ONLY**, use part number of cord, specify required length and type of plug and/or switch that cord will be used with.
3. Receiver unit impedance should be selected to properly match telephone or audio circuits that headset will be used with. When PARALLEL receiver wiring is required, two 600 ohm units would normally be used. The 300 ohm units are used for single headsets and where two receivers are wired in SERIES.
4. LOCAL BATTERY - the carbon transmitter will heat up and be damaged if the transmitter current is allowed to go higher than approximately 0.1 amperes. To prevent this condition, on local battery operation, it will be necessary to connect a resistor in series with the battery supply. Where heavy loading of a line would make any loss objectionable, a capacitor is connected across the resistor to neutralize the slight transmission loss introduced into the circuit by its use. Correct polarity of this capacitor should be observed. Higher battery voltages are preferred. The resistance and capacity value recommended for various voltages are as follows:

Talking battery:	Voltage	Resistance	Capacitor
	3.0 volts	10 ohms	40 mfd.
	4.5	15	40
	6.0	30	40
	12.0	85	40
	24.00	200	40



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Sold by:



## HEAD TELEPHONE SELECTOR CHARTS

**ORDERING INFORMATION**  
A complete headset part number is composed of the LETTERS and NUMBERS shown in code blocks which represent the required components selected from the chart.

**ORDERING EXAMPLE**  
The above double head telephone set would be furnished with a 5 conductor, 7 ft. straight plastic covered cord, two 600 ohm receiver units, a GB540 UNIVERSAL in-line cord switch and an AT213 double 6 conductor plug.

**PLUGS**

**CODE SWITCHES (Optional)**

**CORD SWITCHES (Optional)**

**CORDS TYPE & LENGTH**

**PLUGS**

**3206-1 TYPES**

**ORDERING INFORMATION**  
A complete headset part number is composed of the LETTERS and NUMBERS shown in code blocks which represent the required components selected from the chart.

**ORDERING EXAMPLE**  
The above single head telephone set would be furnished with a 4 conductor 15 ft. retractile plastic covered cord, a 600 ohm receiver unit, a GB540 UNIVERSAL in-line cord switch, an AT237 double 4 conductor plug, and an AP162 ear cushion.

**PLUGS**

**CORD SWITCHES (Optional)**

**CORDS TYPE & LENGTH**

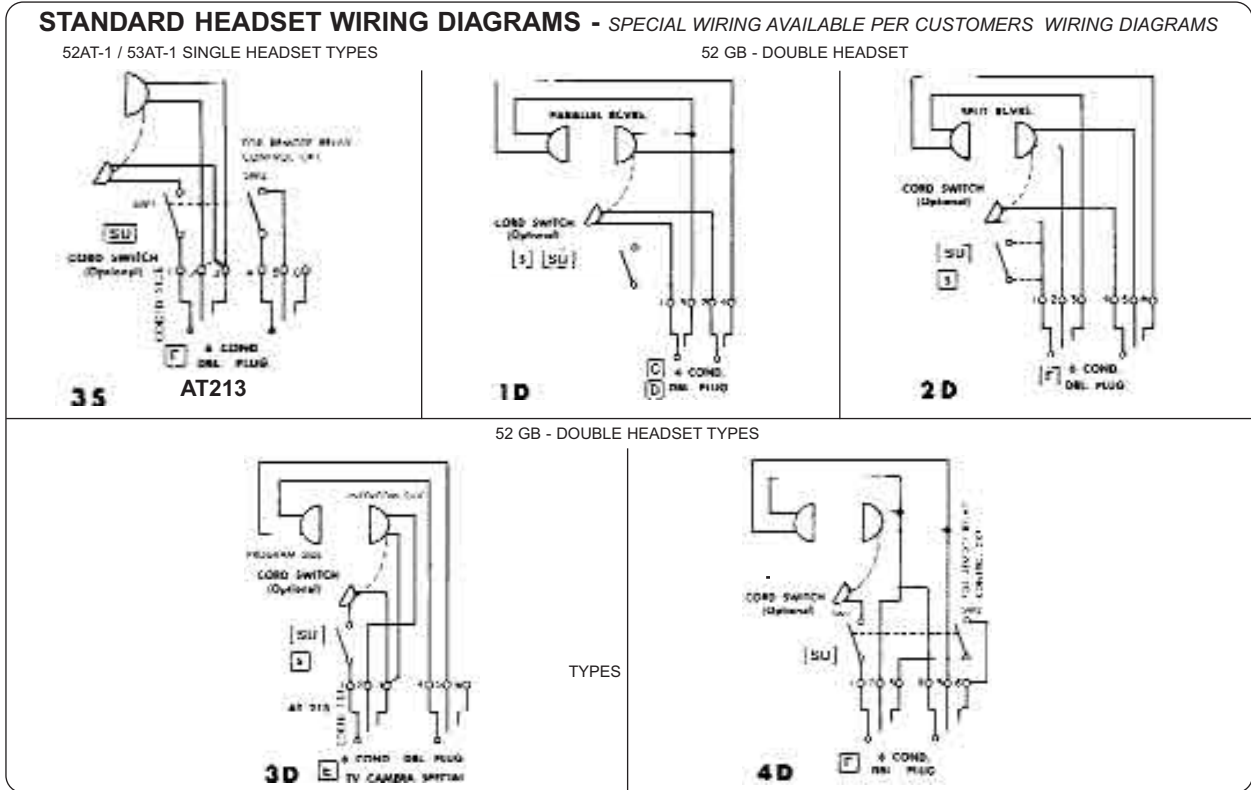
**PLUGS**

**32AT-1 TYPES**



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## STANDARD HEADSET WIRING DIAGRAMS



## HEADSET CORD SWITCHES



### GB540 UNIVERSAL CORD SWITCH

The GB540 is a three-position DPDT rocker type switch. The three positions are ON, OFF, and MOMENTARY. The switch mechanism is housed in a high-impact black plastic case with cord outlets at each end for feed thru applications. The case is e/w a sturdy plated metal belt clip. Switch contacts are rated at 120V AC or 28V DC at 5 Amp. into a resistive load and are designed to withstand 40,000 operations at full rated load.



### GB520 CORD SWITCH

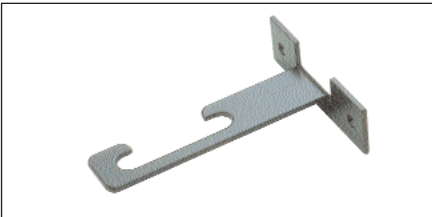
Feed-thru type plastic housing containing a SPST ON-OFF slide switch assembly rated at 10A, 125V AC.





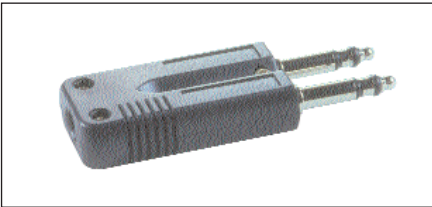
## AP15F SINGLE HEADBAND

Consists of a lightweight vinyl coated wire headband and rubber pad for added comfort. An adjustable yoke assembly is designed for use with 52AT or 53AT type headsets and 10A or 12A receiver holders.



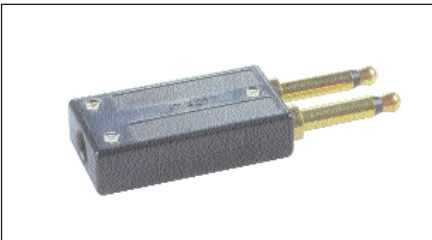
## AP929 HEADSET HANGER

Consists of a plastic coated metal hook bracket and mounting hardware, for mounting single or double headsets on a vertical panel or surface.



## AT213 DOUBLE PLUG

Consists of a high-impact-type plastic shell and two 3-conductor (tip, ring, sleeve) plug inserts. Fits jacks mounted 5/8 centers such as 238A, 241A, MT332B, MT336. etc.



**AT327-00** (Black)

## AT327-44 (Lt. Ash) DOUBLE PLUG

Consists of a high-impact-type plastic shell and two 2-conductor inserts (tip, sleeve). Designed to fit standard telephone jacks such as MT331, MT333, 223A, 226A, etc., which are mounted on 5/8 centers.



## AP161 EAR MUFF ASSEMBLY

Consists of a soft vinyl foam plastic filled ear muff, receiver holder adapter, and a special thermoplastic receiver cap. Designed to provide a comfortable fit to the ear. Will fit 52AT type headsets and 10A or 12A receiver holders.



## AP162A EAR CUSHION & CAP ASSEMBLY

Consists of a rubber ear cushion and modified thermoplastic receiver cap, arranged to provide a comfortable fit to the ear. Will fit 52AT type headsets and 10A or 12A receiver holders.

