

SHURE*

hat does "Shure" mean to you?

If you have an active interest in any sector of

the audio world, chances are you respond strongly to the word "Shure." Whether you're involved with musical performance, recording, sound reinforcement, broadcasting, or film/video production, "Shure" probably represents clear, natural sound reproduction, practical design features, and complete dependability.

There's a good reason why the word "Shure" means so much to so many. Since we started in business back in 1925, we have never strayed from our emphasis on quality, a commitment we believe to be unsurpassed by any other company.

To us, quality is not an empty catchword in advertising copy. It's a very specific concept with very specific definitions. Among other things, Shure quality means innovation and thoroughness in design, uniformity and consistency in manufacturing, precision and accuracy in performance, and ruggedness and reliability in "real world" usage.

About that ruggedness: When we talk of Shure quality, we can back it up with the most stringent quality assurance testing program in the business. Before it can bear the Shure name, a microphone must be able to withstand extended exposure to extremes in temperature (165°F to -20°F) and humidity (100% at room temperature, 93% at 100°F), ultraviolet rays, salt sprays, alcohol, sand, water, violent vibrations, shipping tests, "drop tests" (repeated

drops from six feet onto hardwood floors), and ten torturous days of repeated cycling between simulated arctic and tropical environments. If a microphone doesn't work after all this, it's not a Shure.

This kind of dedication to good sound and reliability has made Shure "The Sound of the Professionals... Worldwide" for decades. Shure microphones are used virtually everywhere—on stages, lecterns, remote broadcast locations, and production sets all over the world.

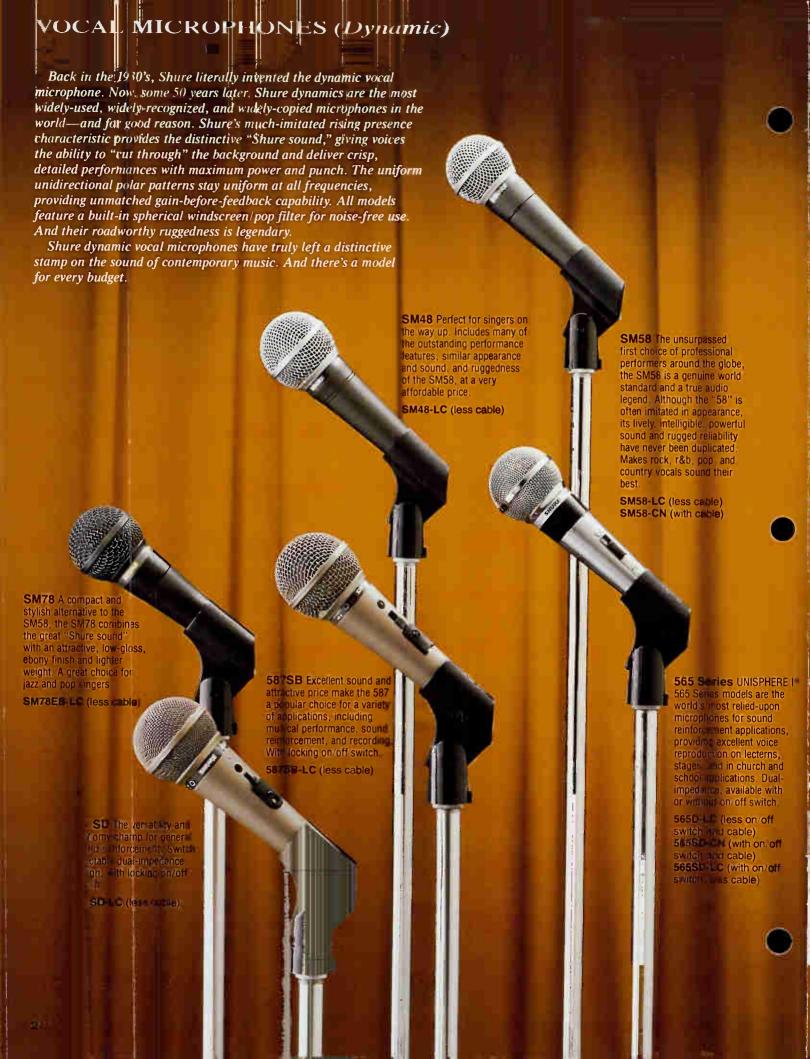
This catalog will introduce you to a great many products that share "Shure quality." In these pages you'll find the industry's widest variety of microphones, for all applications. You'll also find our acclaimed "FP" Series and "M" Series circuitry products, plus such Shure "specialty audio" products as the Audiomaster® Sound Reinforcement System, the Shure Automatic Microphone System, Shure Wireless Microphone Systems, and Shure Professional Phonograph Cartridges. Specifications and technical information can be found in the gatefold section at the end of the booklet.

We hope you'll find this catalog useful and interesting. We're confident that the products presented here will provide you with years of the best possible service, no matter what your involvement with audio may be. After all, we believe in our commitment to quality the same way you believe in yours.

Hogen

James H. Kogen PRESIDENT

AVONIX VIDEO SYSTEMS 1325 Greenway Cross Suite 111 Madison, WI 53713 (608) 271-9202





Clarity, depth, precision and detail are the hallmarks of great condenser microphones.

And more and more vocalists are demanding the superbly natural sound quality only a Shure condenser can deliver.

The models shown here all represent significant breakthroughs in condenser microphone design. Shure was the first to

with condenser microphones—Shure condensers can handle every bit of the abuse that goes with extended touring. The exclusive 3-point elastomer space-frame shock mounts mean minimal handling noise. And Shure's advanced circuitry and transducer designs are recognized by sound engineers everywhere.

MUSICAL INSTRUMENT AND LECTERN MICROPHONES (Dynamic)

When miking musical instruments and lecterns, professionals turn to Shure. They know that Shure microphones provide precise definition of instrumental timbres, accurate reproduction of speaking voices, uniform polar responses, heavy-duty shock mounting, and total reliability.

Shure's wide variety of dynamic microphones are industry "workhorses" for both live and studio applications. And Shure's flat-response, probe-style condensers (page 5) combine remarkable engineering with excellent value.



SM57 The classic SM57 is the "workhorse" microphone of stages and studios worldwide. Its carefully contoured presence rise means clean, beautifully defined instrumental reproduction and rich, warm vocal pickup on lecterns. The standard for drum and cymbal miking.

SM57-LC (less cable) SM57-CN (with cable)



SM77 A compact alternative to the SM57 with a non-reflective ebony finish and sparkling sound. A superior choice for miking instrument amplifiers.

SM77EB-LC (less cable)



545 The 545 UNICIYNE® Ill's remarkably faithful response makes it a favorite choice for instrument pickup, lecterns, singers, and entertainers. Dual-impedance for use with most sound equipment. Available with or without locking on/off switch.

545D-LC (less or /off switch and cable) 545SD-CN (with on/off switch and cable) 545SD-LC (with on/off switch, less cable) 545SH-LC (with on/off switch and built-ir swivel mount) 545L (shorter ver sion with attached cable)



SM62 Shure's smallest hand-held dynamic microphone is less than five inches long and weighs only four ounces, but it's a big performer in every way. Flat, uncolored response with a low-end rolloff to prevent boominess. Excellent wherever an unobtrusive microphone is a must—on stages, in conference rooms, on lecterns.

SM62-LC (less cable)



eal. natic stand is

515 A low-cost all-purpose performer. Versions are available for a variety of applications. All include lockable on/off switches.

515SA (high impedance, attached cable)
515SB (low impedance, attached cable)
515SD-LC (dual impedance, less cable)

SM17 The world's smallest dynamic-element microphone, the omnidirectional SM17 comes with hardware for mounting on practically any musical instrument. Widely used on violins and acoustic guitars. A small microphone with a robust, full-bodied sound.

SM17-CN (with attached cable)

MUSICAL INSTRUMENT AND LECTERN MICROPHONES (Condenser)



SM81 The crowning achievement of Shure microphone engineers, the unidirectional SM81 is one of the world's great studio microphones, providing the ultimate in precise, detailed sound reproduction. Excellent for miking all acoustic instruments, both in live

performance and in the recording studio. A superior choice for overhead cymbal miking. The SM81's ruler-flat response may be tailored with a built-in low-end rolloff switch. Built-in -10 dB attenuator. Phantom power only.

SM81-LC (less cable)

SM80 The SM80 is an omnidirectional version of the SM81, offering all of the same extraordinary performance and features of its sister microphone. The ideal choice for recording when natural room reverberation and lack of proximity effect are desirable.

SM80-LC (less cable)

SM94 A moderately priced unidirectional microphone of exceptional quality. Perfect for recording, instrument pickup on stage, and digital sampling. Especially good for reproduction of woodwinds and stringed instruments. Battery or phantom power.

SM94-LC (less cable)

849 The first microphone to make a "studio quality" condenser available to users on a tight budget. A versatile performer that records acoustic instruments with excellent texture and detail. On/off switch; battery or phantom power.

849-LC (less cable)





SM98 The SM98 is more than the world's finest miniature musical instrument microphone. It's a complete system with accessories that make it ideal for a wide range of applications. The SM98 displays an extremely uniform cardioid pickup pattern, a wide-range frequency response, and the ability to handle sound pressure levels up to 153 dB! It's an excellent choice for miking drums, horns, acoustic guitars and voices. Supplied with preamplifier, universal swivel adapter, and foam windscreen. Battery or phantom power

SM98 Accessories include the A98SPM Supercardioid Polar Modifier (which quickly and easily changes the SM98's polar pattern from cardioid to supercardioid), A98KC "Keen Clamps" (for mounting the SM98 on wind instruments), A98MK Drum Mount Kit (for mounting the SM98 on drums). A98HA Hanging Adapter, A98-G18 18-Inch Gooseneck, A98GM Gooseneck Mounting Flange, and A98PF Pop Filter and Locking Kit

SM99 (not shown) The SM99 is a miniature gooseneck-mount microphone for use on lecterns, pulpits, conference tables—anywhere a high-quality, unobtrusive gooseneck microphone is needed. The SM99 features a tight supercardioid polar pattern that discriminates against sounds coming from the sides and rear of the microphone. The result is plenty of volume without feedback, even in multiple microphone installations

LAVALIER MICROPHONES Broadcasting, film and video production, sound reinforcement... Shure has a high-performance lavalier microphone for every requirement. All Shure lavaliers are engineered for maximum voice intelligibility, unobtrusive appearance, dependability, and complete serviceability. omnidirectional condenser lavalier microphone features an electronically-generated frequency response dip at 730 Hz that minimizes the "chest resonance" phenomenon. Innovative accessories for unobtrusive 570S This versatile performer can serve as either mounting are provided, including a 4-way tie bar, a lavalier or a hand-held double-mic tie bar, and two microphone. Widely used by lecturers, moderators. multi-purpose mounting blocks. Side-exit cable is panelists, and clergy. Omnidirectional, dynamic; unobtrusive minimizes handling noise. Compact, lightweight belt-pack preamp includes on/off switch, lanyard-style lavalier takes standard 9-volt battery assembly, and 30-foot cable. or phantom power. Foam windscreen included SM11 For those who need a dynamic lavalier microphone, the SM11 is the smallest model available. Shure ruggedness and dependability in a microphone no longer than a paper clip. Comes with tie tack and tie bar mounting accessories. Omnidirectional, SM11-CN (with attached 839 A low-priced alternative to the SM83 A goodsounding, super-reliable lavalier. Low distortion and BF suscertibility Vildscreen. 4-way tie∋ba mount. Omnidirection a or phantom pow SM84 The great features, performance, and accessories of the SM83 in a unidirec tional version. Provides excellent rejection of unwanted sounds



SURFACE-MOUNT MICROPHONES

Surface-mount microphones have become more and more popular because of their enhanced sensitivity and low-profile appearance. They can solve application problems requiring distant pickup, such as on a stage floor or in the center of a conference table. When surface miking is called for, Shure offers a complete range of models to choose from. Shure surface-mount microphones are frequently requested, because we build them without forgetting that exacting audio performance is your foremost consideration.

SM90 (not shown) An omnidirectional version of the SM91. Same extraordinary features and performance. Useful when large area must be covered by one micropione.

SM31 The world's trat unidirectional surface-mount microphone has yet to be surpassed, thanks to the SM91's exceptional condenser translation of the surpassed. A world-class microphone that's rugged enough to drive a truck over

Ideal for TV settings, newsconferences, dramatic productions, choirs wherever inconspicuous microphone placement is desired. Also excellent for miking kick drums and acoustic planes. Preamp includes low-cut filter switch Battery or phantom power.



SM18

819 For applications where price is a consideration, the 819 offers an excellent, economical alternative to the SM91. Wide-range frequency response, super durability. Great for general sound reinforcement applications in churches schools etc. Single 9-volt battery or phantom power.

809 (not shown) The 819's omnidirectional version.

SM18 A favorite in churches and meeting rooms, the SM18 dynamic is low in cost, good-sounding, and amazingly unobtrusive. Available in either white or brown foam casing to blend with white or wood grain surfaces.

SM18W-CN (white, attached cable) SM18B-CN (brown, attached cable)



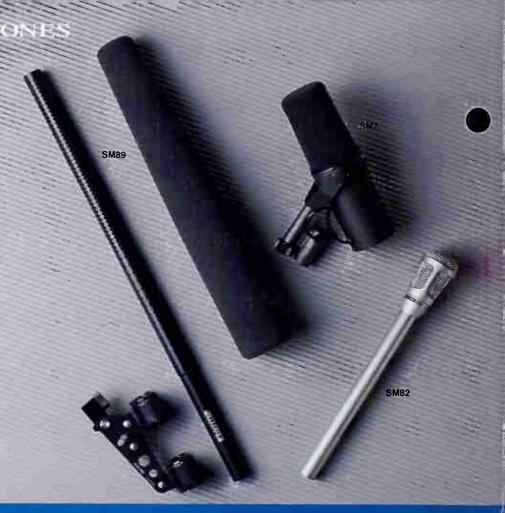
SM89 (shown with A89SM accessory shock mount and foam windscreen) - A highly directional professional "shotgun" condenser microphone, specially designed for location film and TV production, theater sound reinforcement, and spot news coverage. The SM89 is the first shotgun mic to overcome the problem of off-axis coloration. Thanks to its exclusive Accu-Port" interference tube systemwhich eliminates the peaks and dips caused by the comb-filter characteristics of most shotgun micsand fine-tuned frequency response, off-axis sound is much easier to control. Aluminum casing makes the SM89 30 to 40% lighter than other models and extremely easy to handle. The A89SM accessory shock mount virtually eliminates vibration noise. All in all, the SM89 is the most natural-sounding, easy-to-use "shotgun"

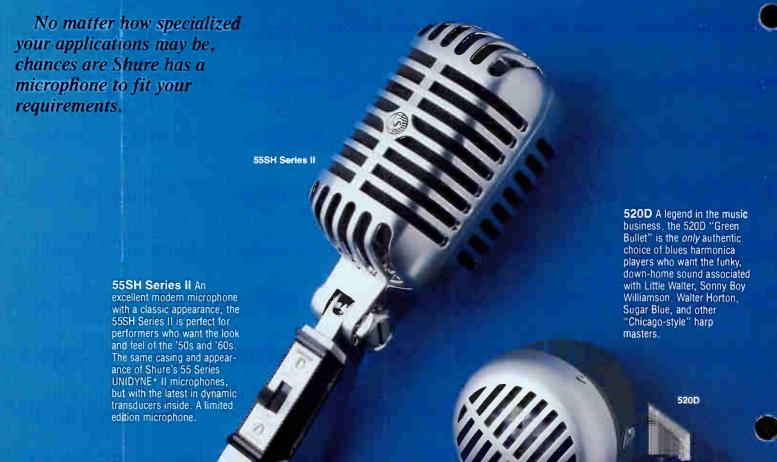
available.

SM7 A fixture in studios around the world, the "smooth and silky" SM7 is famous for making voices sound their best. Extremely popular for radio and television work, especially voice-over recording. Unique graphic tailoring switches (for presence boost and low-end rolloff) permit the choice of four different response curves. Yoke assembly allows exact positioning. Acclaimed as one of the finest dynamic microphones in use today.

SM82 A hand-held, selfcontained, unidirectional condenser microphone with a built-in line level amplifier, peak limiter and battery operation. An outstanding choice for on-location broadcasting, sound reinforcement, and recording applications where a line-level microphone with a built-in limiter is needed. May be directly "hard wired" to a telephone line. Extra-long (1127/32") handle gives great "reach" to interviewers.

SM82-LC (less cable)





PROFESSIONAL CIRCUIT RY PRODUCTS

The circuitry products in the Shure FP (Field Production) Series have taken their place as industry standards for their problem-



FP51 The FP51 lets you ride gain automatically in critical remote-to-studio eeds, assuring consistent signal output. It combines a 4-input, 1-output audio mixer with a high-quality gatedmemory compressor that provides an adjustable 40 dB compression range compression ratio of approximately 0.1 in normal operating range) and maximizes the output level regardless of the program material's peak-to-average ratio includes transformer-balanced TIDUTS and outputs (switchable for line or microphone level operation), onantom power, a built-in 1 kHz tone oscillator, pull-pot cuing for line or evel checks, 1/4" and mini (3.5 mm) readphone jacks with level control, low-

cut filter switches for each channel, and an illuminated dual-range VU meter that indicates output level, dB compression, or battery condition. AC or battery (three standard 9-volt) power. A great labor-saving device for busy audio technicians.

FP16 A 1-input, 6-output compact audio distribution amplifier for routing multiple audio feeds without sacrificing signal clarity. Includes: transformer-balanced inputs and outputs (each switchable for microphone or line level operation), link jacks for connecting additional FP16 units or outboard

with the products have become ynonomous with convertible and extreme ray values. Built is easily for broadcast who field production apolicy thins. I have become ynonomous with convertible and establishy to audio technicians worldwide.



devices. Battery or AC power, screwdriver-adjustable gain controls. Ideal as a portable press bridge.

FP42 All the features and ruggedness that have made Shure's M267 an industry standard...plus full stereo capability. Four transformer-balanced inputs, two outputs (one for each stereo channel). May be battery or AC powered. The FP42 simplifies mic cuing (so important in sports remotes) and enables users to mix down stereo in editing suites.

M267 One of the most popular field production mixers ever. The inclusion standard M267 mixer incorporates a switchable limiter, phanton pook, headphone rack and level contrautomatic muting circuit, battery one function done oscillator in a limit switches on each enpul and output low-cut switches on each channel and much more Four transformer-balance inputs, rack mountable, battery (threstandard 9-volt) or AC power.



FP12 A 1-input, 2-output headphone bridging amplifier, the FP12 is a must for shotgun and boom operators. It can provide headphone feeds from any type of audio input without "terminating the input signal when operated inline. Includes both XLR and 1/4" in/ out connectors (two each) and both 1/4" and mini (3.5 mm) phone jacks. Features Mic/Line input switch, Hi Z/Lo Z headphone switch, headphone level control, battery test jacks, and removable belt clip. Takes standard 9-volt battery. Great for troubleshooting, multiple headphone feeds, and as an intercom.

FP11 The FP11 Mic-to-Line amplifier provides up to 84 dB of additional gain in 15-6 dB steps for thoosting microphone and auxiliary level devices to line level. This hardy, compact, problem-solving antitive includes palanced, locking \$2.8 indus and of puts; switchable peak limiter; peak/limiter LED indicator; aux level mini-phone jack input i balanced limiter-level binding post output; and removable belt clip. Powered by standard 9-volt battery.



FP31 An instant field production classic, the FP31 Audio, Mixer packs an amazing number of convenience features into an exceptionally compact package. Includes three XLR connector inputs and two outputs; each switchable for microphone or line level. Additional features include VU meter, timed meter lamp, peal LED overload/limiter indicator, adjustable limiter, tone oscillator, stereo headphone mini and 1/4" jacks. phantom and A-B power, tabe-out mini jack, and more. Built-in switchable slate tone and microphone make it easy to mark takes. Battery (three standard 9-volt) or AC powered.

FP32 A stereo version of the Shurk FP31 Audio Mixer, with a cell terdetented stereo pan poll for each inp channel, plus a concentric stutched stereo master gain control. Includes all FP31 convenience features, plus playback monitor through the headphones.



M268 A compact, lightweight, 5-input mixer for use in PA/paging applications in hotels, community centers. and hospitals. It's also widely used by performers as an add-on mixer for expanding current equipment (such as for drum or keyboard submixes). Includes four transformer-coupled lowimpedance balanced-line microphone inputs and four high-impedance 1/4" phone jack inputs, plus a high-level auxiliary input. Also features switchable phantom power, mix bus, peak indicator. Individual volume controls for each channel plus master volume.

M68A/M68FCA Practical, efficient, and low in cost, the M68 Series is perfect for all applications requiring an economical microphone mixer. Four microphone channels, each switchable for use with high-impedance or low-impedance microphones. Also features aux level input channel, master volume control, high- and lowimpedance outputs. Excellent for paging, tape recording, A/V work, and many other applications. (M68A features 3-pin input connectors; M68FCA incorporates 3-socket connectors).

PS1A An AC power supply that provides phantom power for one or two condenser microphones. Designed to operate from 90 to 132 Vac, 50/60 Hz or 180-264 Vac, 50/60 Hz (internal switch-selectable). A useful accessory for all Shure and other electret condenser microphones.

M64A A compact, professional stereo preamplifier which solves a variety of preamplification and equalization problems. The 3-position slide switch selects standard RIAA equalization (PHONO) or NAB equalization for tape heads (TAPE). In the flat position, the M64A can be used as a microphone preamplifier or a low-gain buffer amplifier where long cable lengths are necessary. Ideal for interfacing phonographs with PA systems.



Shure wireless microphone systems are unmatched for performance, flexibility, reliability, and value. Bodypack systems offer optimum performance with a wide range of microphones as well as electronic musical instruments. Hand-held systems offer sound equal to their 'wired" counterparts, thanks to an unprecedented

testing program which measures the acoustic performance through the wireless link. No other wire'ess systems come close to Shure's matched combination of acoustical, audio, and RF engineering. resulting in the excellent sound quality and dependability so important to your performance.

W25DR Diversiphase* Receiver Dual-antenna diversity receiver increases antenna gain while it

minimizes dropout.

W20R Receiver

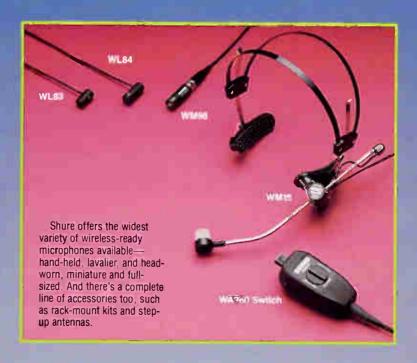
A non-diversity receiver incorporating Shure "mirror image" companding circuitry, linear-phase filters, and crystal-controlled frequency generation.

W10BT Body-Pack

Transmitter Works optimally with both microphones and musical instruments Separate power on/off mic on off, and mic sensitivity switches Battery condition indicator.

W15HT Hand-Held

Transmitter (shown with SM58 and SM87 heads)-The first transmitter to deliver the exact sound of the world's most popular microphones. Acratune dipole antenna system ensures reliable operation Interchangeable heads. Power and mic on off switches, with locking security cover.



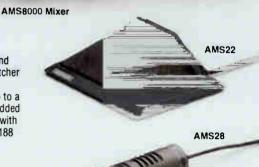






AMS components include: the AMS8000 Mixer (eight channels), the AMS4000 Mixer (not shown, four channels), the AMS24 Gooseneck Microphone, the AMS26 Probe Microphone, the AMS22 Low-Profile Microphone, the AMS28

Lavalier Microphone, and the AMS880 Video Switcher Interface (not shown). Additional channels (up to a total of eight) may be added to the AMS4000 Mixer with replacement parts RKC188 and RKC189.



Shure was the first to develop an integrated, automatic microphone/circuitry system to control the number of open microphones in an installation. Since its introduction, the AMS system has become the number one choice among sound installers and broadcasters because of its foolproof operation and ease of set-up. The Shure AMS solves such common problems as false and choppy gating, muddy sound, system "pumping," and missed syllables—thanks to its patented direction-sensitive gating capability.

The Shure AMS has been installed in hundreds of conference rooms, courtrooms, churches, colleges, and other facilities around the world. The system also has found a home in a wide range of broadcast and security applications.

The variety of AMS microphones available makes the AMS perfect for any situation.

And the logic terminals that accompany each AMS channel permit many special capabilities, including chairman-controlled muting and automatic video camera switching.



PROFESSIONAL PHONOGRAPH CARTRIDGES



Shure Professional Phonograph Cartridges are designed to provide clean, undistorted playback of even the toughestto-track recordings. And they're built to last, too.

SC SERIES

SC39EJ Shure-design bearing assembly and telescoped stylus shars structure help the Scanding achieve exception trackability. In exclusive SPAIR INVIDENT Protection iffe Trackability and the structure of the str

SC 198 5-

BC SERIES

Sound Convergence and the convergence with the convergence and the

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DC SERIES

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Shure cables and "Problem Solvers" are famous for making audio technicians' lives much simpler. "Problem Solvers" include a wide variety of compact "in-line" microphone attenuators, equalizers, transformers, adapters, and other devices.

Cables Shure has a complete selection of durable, fully-shielded microphone cables. See the Microphone Cable Selection Chart on page 21 for models

1 11 -

IN" MICROPHONE

A15TG fone denerator
Produces a gontini ous FOD
words and capace of form of
wormbedance balanced
ines Extremely behalf
n setting up and
oubleshooting audio
oublineshooting audio

A15LP low Pass filler Provides a high freque in Suroff to Periody objection the light frequency incises A15RS Response Shaper Provides sibilance filtering (removes presence peak) for recording, broadcasting, and PA applications.

A15B Bridging
Transfermer Matches
Dalancer or unbalanced
devices of different
impedances. (33 kilohm
primary, 600 or 7,500 ohm
secondary

A15LA Line Input Adapter Converts balanced lowmiped ince microphone input o bridging line-level input.

A 15 AS Switchable
Microphone Attenuator
Preven common foad
Halo toat total William to to to stoll afford to to stoll a foad to stoll a foad

A15PRS Switchable Phase Reverser Instant switch selection of normal or reversed phase of a balanced line without modification of equipment.

A15PA Presence Adapter Adds presence to vocals or instruments in recording, broadcasting, and PA applications.

A15/HP High Pass Fifter Provides a low-frequency entof to reduce unwanted low-frequency noises

A85 F. Low Impedance to High-Impedance Line Matching fram former to wingledar a won with the color and the color a

A95UF Low-Impedance to High-Impedance Line Matching Transformer Low impedance connector—3 socket XLR connector— Amphenol MC1M-type connector with mating standard 1/4-inch phone jack and phone plug.

A95U Same as A95UF, but with 3-pin Alastor tow-

A97A ow Impedance to delium Impedance Inc.
Matching Transformer of interance of sector of interance of international interance of interance of interance of interance of interance of interance of international interance of interance of international interance of inter

A120S Accessory In-Line Switch May be used to add an On Off, Push-To-Talk, butgh Button, or Tr. nsmift. Talk, Keying function to a lictory one or any other

OAC Telephone Acoustic outpler resigned to adustically couple tage recorded information (or elephone handse transmitter. Useful in recorded information when a tage recorder cannot be the conder cannot cann



MICROPHONE ACCESSORY BAGS

26A07 A heavily padded bag for storing microphones and accessories. Dimensions are $9\frac{1}{8}$ " x 4" x $1\frac{5}{16}$ ".

26A08 In addition to its padded and zippered main compartments, the 26A08 has two more separately zippered compartments for accessories. Dimensions are 95/16" x 41/2" x 2".

26A10 A functional, multipurpose storage bag. Dimensions are $4\frac{1}{2}$ " x $10\frac{1}{2}$ ".

STANDS AND ADAPTERS

A27M Stereo Microphone Adapter Permits mounting two microphones on one stand, with complete flexibility in positioning. Accepts all Shure microphone mounts and adapters. A45Z Z-Bracket Small, lightweight alternative to standard microphone stand and boom combination, which can be positioned on top of or underneath any speaker cabinet or guitar amplifier.

S39A Vibration Isolation Stand For tables, desks, lecterns, etc. Isolates microphone from mechanical vibration.

A55HM "Shock Stopper"™ Isolation Mount/Swivel Adapter (Half-Mount Version) Permits instant removal of microphone on stage. Fits Models SM48, SM57, SM58, SM77, SM78, 515, 545, 565, 587, and 588. Model A53HM (not pictured) fits Models SM59, SM61, SM62, SM63, SM63L, SM80, SM81, SM82, SM85, SM87, SM94, SM96, 849, and 869.

A55M "Shock Stopper"™ Isolation Mount/Swivel Adapter A breakthrough in noise isolation. Reduces mechanical and vibration noise by more than 20 dB. Fits same models as A55HM. A53M (not pictured) fits same models as A53HM (except SM94, SM96, 849, and 869).

A25B Swivel Adapter Black. Designed for use with Models SM48, SM57, SM58, SM77, SM78, 515, 545, 565, 587, and 588. A25C (not pictured), designed for use with Models SM94, SM96, 849, and 869.

A57E Swivel Adapter Black. Fits Models SM85, SM87, SM89, and AMS26.

A57D Swivel Adapter Same as A57E, but Champagne color. Designed for use with Models SM59, SM61, SM62, SM63, SM63L, SM80, and SM81. A58WS WINDSCREENS Fit all Shure "ball-type" microphones.

A58WS-OR Orange.

A58WS-BR Brown.

A58WS-GN Green.

A58WS-RD Red.

A58WS-BL Blue.

A58WS-WH White.

A58WS Gray.

A58WS-YL Yellow.

A58WS-BK Black.

A2WS WINDSCREENS Locking feature. For use with Models 545, SM57, and SM77.

A2WS Gray.

A2WS-BK Black.

A81G Pop filter grille for Models SM80 and SM81.

ADDITIONAL AVAILABLE ACCESSORIES

FLOOR AND DESK STANDS

BB-77 Baby Boom A 31" chrome-plated, adjustable boom arm. Fits Model MS-10C Floor Stand.

MS-10C Floor Stand Quickly and easily adjusts from 35" to 64" high.

S15 Tripod Floor Stand Extra-tall, rugged and stable...yet portable and lightweight. Five telescoping sections. Stand may be used at any height between 3½ and 14 ft.

S37A Desk Stand Modern, low-profile design. Nonreflective, textured gray finish (27%" x 49/16" x 61/2").

MOUNTS AND ADAPTERS

A26X Desk Stand Extension Stem pipe for AMS26 microphone. Black, threaded on both ends.

CO-1 Stand Adapter Black. Screw-type clamp for mounting second microphone on floor stand or for mounting a microphone directly to a desk or table. **A25M Dual Microphone Mount** Designed for use with Models 545, SM57, and

A26M Dual Microphone Mount Designed for use with models 545, SM57, and SM77 when using A2WS Windscreens and with 515.

565, 588, SM58, and SM78.

A89SM Shock Mount Holder For use with SM89 Shotgun. Also fits Models SM80 and SM81.

WINDSCREENS

A1WS For 515 Series.

A3WS Fits Models SM94, SM96, 849, and 869.

A61WS Fits Models SM61, SM62, SM63, and SM63L.

A81WS Specially designed for Models SM80 and SM81.

A85WS For SM85

RK184WS Fits Models SM1, SM2, SM10A, and SM12A.

RK204F For SM81B (Brown).

RK205F For SM18W (White).

RK229WS Fits Models SM63, SM63L.

RK242WS Fits Models 839, SM83, WL83.

RK257WS For Model

49A64A For 512.

49A74A Fits Models SM15, WM15.

49A66 For SM98.

90A2089 For SM7.

90B4016 For SM99.

GOOSENECKS

G6A 6" flexible with side vent.

G12 12" flexible.

G12-CN 12" flexible with three-socket professional audio connector.

G18 18" flexible.

G18A 18" flexible with side vent.

G18-CN 18" flexible with three-socket professional audio connector.

90B1120A 12" lightweight.

A12 Mounting Flange Standard 5/8"-27 external thread. LAVALIER MOUNTING HARDWARE

A51L Plastic. Fits Models 570S and 571.

A54L Plastic. Fits Model 545L.

A57L Rubber. Fits Models 570S and AMS28.

RK239MB Mounting Block Fits Models SM83, SM84, WL83, and WL84.

RK240SB Single Bar Fits Models SM83, SM84, WL83, and WL84.

RK241DB Dual Mount Tie Bar Fits Models SM83, SM84, WL83, and WL84.

CIRCUITRY MOUNTING KITS

A16R Rack panel for FP16 and FP42.

A68R-BL Rack panel for M68A, M68FCA. Black finish.

A268R Rack panel for M267 and M268. Black finish.

RKC169 Bracket kit, adapts A68R to fit M267 and M268.

WIRELESS ACCESSORIES

Rack Mount Kits

WA200 Single for W20R. 13/4" high.

WA210 Double for W20R. 13/4" high.

WA220 Single for W25DR. 3½" high.

WA230 Double for W25DR. 31/2" high.

Instrument Cable

WA300 Connects W10BT Body-Pack Transmitter to a guitar or other instrument. Cable is 4 ft. with a 1/4" phone plug and Switchcraft TA4F connector.

Microphone Cable

WA310 Connects W10BT Body-Pack Transmitter to a dynamic or battery-powered condenser microphone for unbalanced operation. Cable is 4 ft. with a 3-socket (female) professional connector and Switchcraft TA4F connector.

NEED MORE INFORMATION?

There is a technical data sheet for every Shure product. It provides such information as detailed specifications, technical descriptions, product features, impedance change instructions, optional power conversions, circuit diagrams, wiring considerations, descriptions of controls, connectors and indicators, as well as a list of optional accessories and replacement parts.

Selection guides which recommend the most appropriate Shure microphones for various applications are also available.

These include:

AL693 Microphone Selection Guide—Broadcast Applications

AL702 Microphone Selection Guide—Sound Reinforcement and Recording Applications

AL707 Microphone Techniques For Music

Data sheets and application guides may be obtained free of charge by contacting: Shure Brothers Inc., Consumer Relations Department, 222 Hartrey Avenue, Evanston, IL 60202-3696, (312) 866-2560. When ordering please indicate the product model number(s) for data sheets and the "AL" number for selection guides.

REPLAC	CEMENT F	PARTS AN	D ACCES	SORIES SI	ELECTIO	N GUIDE
Microphone Model Number	Cable	Cartridge	Screen & Grille Assembly	Swivel Adapter	Windscreen	(4) Misc. Accessories
55SH Series II	(1)	R115	_	-	-	-
512	-	R93 (Microphone) R143 (Receiver)	- '	-	49A64A*	A120S
515SA	C62	R15	RK54G	A25B*	A1WS	_
515SB	C63	R15	RK54G	A25B*	A1WS	
515SD	(1)	R15	RK254G	A25B*	A1WS	-
520D	70A2047	R44D	-	_	_	-
545D	(1)	R45	RK244G	A25B*	A2WS	A25M (5) , A55M
545L	70A2004	R45L	RK244G	A25B	A2WS	A25M (5), A54L*
545SD	(1)	R45	RK244G	A25B*	A2WS	A25M (5) , A55M, A55H
545SH	(1)	R45	RK244G		A2WS	-
565D	(1)	R65	RS65	A25B*	A58WS (2)	A26M, A55M, A55HN
565SD	(1)	R65	RS65	A25B*	A58WS (2)	A26M
5708	70A295	R70	RK91G	A57E	-	A120S, A57L*
571	70A287	90F995	RK91G	A57E*	A2WS	A57L
575SB	70B1006	R50	-	-	-	
579SB	(1)	R50	RK161G (Gray) RK221G (Champagne)	A57D*	A58WS (2)	-
587SB	(1)	R136	RK252G	A25B*	A58WS (2)	A26M, A55M, A55HN
588SD	(1)	R15	RK253G (Champagne)	A25B*	A58WS (2)	A26M, A55M, A55HI
809	=	R130		_	_	PS1A (6)
819	-	R129		-	-	PS1A (6)
839	90A3875	R133		- 1	RK242WS* (3)	PS1A (6), RK240SB (
849	(1)	R138	- 1	A25C*	A3WS	PS1A (6), A53M, A53H
869	(1)	R137	RK256G	A25C*	A58WS (2)	PS1A (6), A53M, A53H
SM1	C108	R93 (Microphone) R135 (Receiver)			RK184WS*	-
SM2	C108	R93 (Microphone) R135 (Receiver)	-	-	RK184WS*	-
SM7	C25E	99A673	90A3004B	=	90A2089	_
SM10A		R93	<u> </u>		RK184WS*	A120S
SM11	C91	R99				A120S

⁽¹⁾ See Cable Selection Guide on Page 21.(2) A58WS Windscreens are available in an assortment of colors.

⁽³⁾ Kit contains four.(4) See Accessories on Pages 16, 17 and 18.

⁽⁵⁾ With A2WS Windscreen, use A26M.
(6) PS1A for 90-132 Vac; also 240 Vac (180-264).
Indicates accessory cannot be used with product.
* Furnished accessory.

Microphone Model Number	Cable	Cartridge	Screen & Grille Assembly	Swivel Adapter	Windscreen	(4) Misc. Accessories
SM12A	-	R93		-	RK184WS*	A120S
SM15	90A3792	R145		-	49A74A*	A120S, PS1A (6)
SM17	90B2505	R99		-	-	-
SM18B	90B3111	99C669	_	_	RK204F	<u> </u>
SM18W	90A3111	99C669	-	-	RK205F	-
SM48	(1)	R136	RK248G	A25B*	A58WS (2)	A26M, A55M, A55HM
SM57	(1)	R57	RK244 G	A25B*	A2WS	A25M (5) , A55M, A55HN
SM58	(1)	R59	RK143G	A25B*	A58WS (2)	A26M, A55M, A55HM
SM59	(1)	R100	90CD2600	A57D*	A59WS-BR	A53M, A53HM
SM61	C25F	R61	RK164G	A57D*	A61WS	A53M, A53HM
SM62	(1)	90A3007	-	A57D*	A58WS (2)	A53M, A53HM
SM63	C25F	90A2902	90DK2600	A57D*	RK229WS*	A53M, A53HM
SM63L	C25F	90B2902	90DK2600	A57D*	RK229WS*	A53M, A53HM
SM77EB	C25E	R140	RK244G	A25B*	A2WS	A25M (5) , A55M, A55HI
SM78EB	C25E	R141	RK210G	A25B*	A58WS (2)	A26M, A55M, A55HM
SM80	C25F	R104A	-	A57D*	A81WS	A53M, A81G*, PS1A (6), R104
SM81	C25F	R104	-	A57D*	A81WS	A53M, A81G, PS1A (6) , R104A
SM82	C25F	99F671	90BU2600	A57D*	90CC2600	50AC, PS1A (6)
SM83	C106	R127	- E	-	RK242WS* (3)	PS1A (6) , RK239MB, RK240MB, RK241MB (3
SM84	C109	R146		-	RK261WS* (3)	PS1A (6) , RK239MB, RK240MB, RK241MB (3
SM85	C25E	R112	RK214G	A57E*	A85WS	A53M, A53HM, PS1A (0
SM87	C25E	R128	RK243G	A57E*	A85WS	A53M, PS1A (6)
SM89	C25E	R144		A57E	RK257WS*	A89SM, PS1A (6)
SM90	C107	R130	-	_	-	PS1A (6)
SM91	C107	R129	-	-	-	PS1A (6)

⁽¹⁾ See Cable Selection Guide on Page 21.(2) A58WS Windscreens are available in an assortment of colors.

⁽³⁾ Kit contains four.(4) See Accessories on Pages 16, 17 and 18.

⁽⁵⁾ With A2WS Windscreen, use A26M.

⁽⁶⁾ PS1A for 90-132 Vac; also 240 Vac (180-264).

Indicates accessory cannot be used with product.

* Furnished accessory.

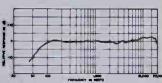
MODEL 809

Type: Condenser for surface mounting Frequency Response: 50 to 20,000 Hz at 30° incidence to infinite surface

Polar Pattern: Omnidirectional in hemisphere above mounting surface

Impedance: 600 ohms

Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to flat surface)
Open Circuit Voltage* -68.0 dB (0.4 mV)



MODELS SM18B and SM18W

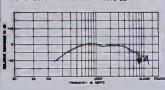
Type: Dynamic

Frequency Response: 150 to 10,000 Hz, at 25°. 1m (39.4 in.) from sound source, microphone on flat surface

Polar Pattern: Cardioid (unidirectional), at 1m (39.4 in.) from horizontal sound source, microphone on flat surface Impedance: 150 ohms (180 ohms actual)

Output Level: (at 1,000 Hz, 25°, 1m [39.4 in.] from sound source, microphone on flat surface)

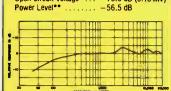
Open Circuit Voltage* . . . -73.0 dB (0.22 mV) Power Level** - 52.0 dB



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MODELS SM63 and SM63L

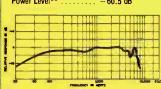
Type: Dynamic Frequency Response: 50 to 20,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (270 ohms actual) Output Level: (at 1,000 Hz)
Open Circuit Voltage*... - 76.0 dB (0.16 mV)



MODEL SM61

Type: Dynamic Frequency Response: 50 to 14,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms

Output Level: (at 1,000 Hz)
Open Circuit Voltage*...
Power Level** - 82.0 dB (.08 mV) -60.5 dB



MODEL 571

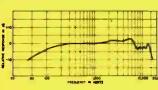
Type: Dynamic Frequency Response: 50 to 10,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* . . . -81.5 dB (.084 mV)



MODEL 579SB

Type: Dynamic Frequency Response: 50 to 14,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz)

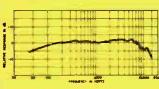
-78.5 dB (0.13 mV) Open Circuit Voltage* ...
Power Level** -57,0 dB



MODEL 575SB

Type: Dynamic Frequency Response: 40 to 15,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* . . . -79.0 dB (,112 mV) Power Level** $-58.0\,\mathrm{dB}$

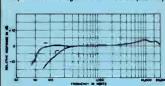


PAGE 10

MODEL SM89

Type: Pressure gradient/line combination Transducer: Condenser Frequency Response: 60 to 20,000 Hz Polar Pattern: Hypercardioid at low frequencies, lobar at frequencles above 1 kHz Impedance: 150 ohms (100 ohms actual) Output Level: (at 1,000 Hz)

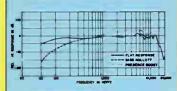
Open Circuit Voltage* -53 dB (2.2 mV)



MODEL SM7

Type: Dynamic Frequency Response: 40 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (150 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* -79.0 dB (.11 mV) Power Level** -57.0 dB



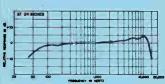
MODEL SM82

Type: Cardioid condenser with line level amplifier and limiter

Frequency Response: 40 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)
Impedance: 250 ohms actual (designed for use
with 600-ohm or greater loads)
Output Level: (1,000 Hz response)

Open Circuit Voltage -23 dBV (0.11V) for 74 dB SPL Power Output:

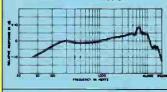
4 dBm into 600 ohms for 94 dB SPL



MODEL 55SH SERIES II

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (270 ohms actual)

Output Level: (at 1,000 Hz) 78.0 dB (0.13 mV) Open Circuit Voltage* Power Level** -58.5 dB



MODEL 520D

Type: Controlled Magnetic Frequency Response: 100 to 5,000 Hz Polar Pattern: Omnidirectional Impedance: (at 1,000 Hz)

Dual. Microphone rating impedance is 150 ohms (160 ohms actual) and "High."
Output Level: (at 1,000 Hz)

HI Z Open Circuit Voltage* . . -73.0 dB -56.0 dB (0.22 mV) (1.6 mV) -51.0 dB Power Level**



PAGES 11 & 12

Output Clipping Level: +18 dBm Equivalent Input Noise: -129 dBV Battery Life:*** 25 hours

MODEL FP12

MODEL FP11

Output Clipping Level: 4 to 8 ohms: 750 mV 1 Kohm or higher: 15V Equivalent Input Noise: -118 dBV Battery Life: *** 10 hours

MODEL FP16

Output Clipping Level: Line: + 14 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 20 hours

MODEL FP31

Output Clipping Level: Line: +16 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 11 to 18 Vdc Battery Life:*** 8 hours

MODEL FP32

Output Clipping Level: Line: +16 dBm Equivalent Input Noise: -128 dBV Phantom Power Voltage: 11 to 18 Vdc Battery Life:*** 6 hours

MODEL FP42

Output Clipping Level: Line: +18 dBm Equivalent Input Noise: -129 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 10 hours

MODEL FP51

Output Clipping Level: Line: +18 dBm Equivalent Input Noise: —129 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 10 hours

MODEL M68A/M68FCA

Output Clipping Level: Line (10 Kohm); 4V Equivalent Input Noise: -123 dBV

MODEL M267

Output Clipping Level: Line: + 18 dBm Equivalent input Noise: —128.5 dBV Phantom Power Voltage: 30 Vdc Battery Life:*** 20 hours

MODEL M268

Output Clipping Level: Line (10 Kohm): 7.9V Equivalent Input Noise: —128 dBV Phantom Power Voltage: 30 Vdc

***With alklaline batteries, continuous use, normal operating conditions.

MODEL PS1A

Open Circuit Supply Voltage: 21.5 ± 1.5 Vdc, regulated Frequency Response:

+0/-0.2 dB, 20-20,000 Hz

Hum and Noise: (20 Hz-20 kHz, unweighted) Common Mode - 90 dBV maximum Differential Mode . . . - 115 dBV maximum

MODEL M64A

Gain: (Measured at 1 kHz; input through 680 ohms; output terminated in 47 kilohms)

High-Level Low-Level Switch Position Output Output + 34.5 dB + 27.5 dB +11 dB + 4 dB Phono Flat +37 dB +13.5 dB Tape

Frequency Response:

±2 dB of Standard RIAA curve from Phono:

40 Hz to 15 kHz

20 Hz to 20 kHz, ±2 dB ±2 dB of 7-1/2 ips NAB curve from Tape: 50 Hz to 15 kHz Total Harmonic Distortion: Less than 1% with 2V

output at 1 kHz in all switch positions. Phono position only: Less than 1% at 30 Hz with 2V output.

Hum and Noise: (20 Hz to 20 kHz) Phono:

Better than 71 dB below 10 mV input Better than 64 dB below 10 mV input

(All Shure circuitry products are listed by Underwriters Laboratories, Inc. and listed by Canadian Standards Association as Certified.)

All Shure circuitry products operate (or can be modified to operate) on 120 or 240 Vac.

PAGE 13

MODEL W20R RECEIVER

Distortion: (at ± 12 kHz deviation) Less than 0.5% THD, 100 to 15,000 Hz; 0.3% at 1 kHz typical

Oynamic Range:

98 dB A-weighted 92 dB unweighted

Audio Frequency Response: 50 to 15,000 Hz,

+1 dB Output: - 20 dB across 200 ohms maximum

(mic level adjustable) Antenna Type: 1/4 wavelength omnidirectional vertical

Power: 13.5 Vdc nominal (negative ground); 200 mA power converter supplied

MODEL W25DR RECEIVER

Oistortion: (at + 12 kHz deviation) Less than 0.5% THD, 100 to 15,000 Hz; 0.3% at 1 kHz typical

Oynamic Range:

98 dB A-weighted

92 dB unweighted

Audio Frequency Response: 50 to 15,000 Hz,

±1 dB Mic/Line Output:

Line . . .

600 ohms. + 13.5 dB maximum Mic.....

across 200 ohms, -10 dB maximum (mic level adjustable)

Antenna Type: 5/8 wavelength omnidirectional vertical

Power: 13.5 Vdc nominal (negative ground); 200 mA power converter supplied

MODEL W15HT/87

RF Power Output: 50 mW maximum Transducer Type: Condenser Frequency Response: 50 to 15,000 Hz Polar Pattern: Supercardioid (unidfrectional) Maximum SPL: (for 3% THD at 1 kHz) 138 dB Battery: Standard 9-volt alkaline: 12-14 hours typical life

MODEL W15HT/58

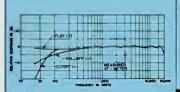
RF Power Output: 50 mW maximum Transducer Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)
Maximum SPL: (for 3% THD at 1 kHz) 138 dB
Battery: Standard 9-volt alkaline; 12-14 hours typical life

MODEL SM81

Type: Cardioid condenser Frequency Response: 20 to 20,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (85 ohms actual) Output Level: (at 1,000 Hz)

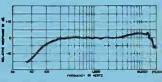
Open Circuit Voltage*... -65 dB (0.56 mV)
Power Level** -40.5 dB

PAGE 5



MODEL SM99

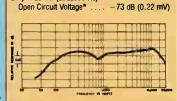
Type: Supercardioid condenser
Frequency Response: 80 to 20,000 Hz
Potar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* . . . -73.0 dB (0.22 mV)



PAGE 6

MODEL SM84

Type: Condenser Frequency Response: 80 to 20,000 Hz Polar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 2,000 Hz)



PAGE 7

Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (200 ohms actual)
Output Level: (close-talked at 1,000 Hz)
Open Circuit Voltage* — 47.0 dB (4.5 mV)
Power Level** — 66.0 dB

Type: Dynamic, Close-Talking
Frequency Response: (at 8 mm [5/16 in.])

MODEL SM12A

MODEL SM10A

Type: Dynamic, Close-Talking Frequency Response: (at 8 mm [5/16 in.]) 50 to 15,000 Hz

MICROPHONE

Type: Dynamic, Close-Talking Frequency Response: (at 8 mm [5/16 in.]) 50 to 15,000 Hz

Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual) Output Level: (close-talked at 1,000 Hz)

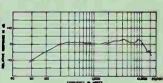
Open Circuit Voltage* ... - 47.0 dB (4.5 mV)
Power Level** ... - 66.0 dB

Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual) Output Level: (close-talked at 1,000 Hz) Open Circuit Voltage* . . . - 47.0 dB (4.5 mV)

Power Level** - 66.0 dB

Type: Dynamic

Frequency Response: 70 to 12,000 Hz Impedance: 2,000 ohms at 1 kHz Output Level: 105 dB SPL with 1.4V at 1 kHz



PAGE 8

Type: Cardioid condenser for surface mounting Frequency Response: 20 to 20,000 Hz at 30°

Impedance: 150 ohms (90 ohms actual)
Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to infinite surface)

Open Circuit Voltage* . . . - 69.0 dB (0.35 mV)

FLAT-

- MELLE - (2000)

LITT LOCUT----

incidence to infinite surface

Polar Pattern: Half-cardioid (cardioid in hemisphere above mounting surface)

MODEL SM80

Type: Omnidirectional condenser Frequency Response: 20 to 20,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (85 ohms actual)

Output Level: (at 1,000 Hz)

Open Circuit Voltage*... - 65 dB (0.56 mV)

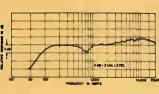
Power Level**..... - 40.5 dB



MODEL SM83

Type: Condenser Frequency Response: 80 to 20,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (90 ohms actual) Output Level: (at 2,000 Hz)

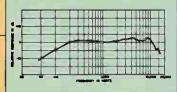
-69 dB (0.35 mV) Open Circuit Voltage*



MODEL 512 MICROPHONE

50 to 15,000 Hz

Type: Dynamic, open air, left-side only Frequency Response: 100 to 10,000 Hz Impedance: 300 ohms at 1,000 Hz Output Level: (at 1,000 Hz) 94 dB SPL at ear with 1 mW input

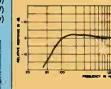


MODEL SM94

Type: Cardioid condenser Prequency Response: 40 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* 69 dB (0.35 mV) (phantom) -70 dB (0.32 mV) (battery)

4 144



MODEL SM11

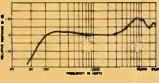
Type: Dynamic

MODEL 839

Type: Condenser

Frequency Response: 80 to 20,000 Hz Polar Pattern: Omnidirectional

Impedance: 600 ohms Output Level: (at 1,000 Hz) Open Circuit Voltage* . . . - 70 dB (0.32 mV)



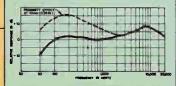
MODEL SM15

Type: Condenser Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)

Impedance: 150 ohms (95 ohms actual) Output Level: (close-talked at 1,000 Hz) Open Circuit Voltage*

- 74 dB (0.2 mV) at 610 mm (24 in.)

- 72 dB (0.025 mV) at 10 mm (0.39 in.)



MODEL 849

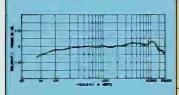
MODEL SM98

Type: Cardioid condenser Frequency Response: 40 to 20,000 Hz

Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* ... -80.0 dB (0.10 mV)

Type: Cardioid condenser Frequency Response: 40 to 16,000 Hz Potar Pattern: Cardioid (unidirectional) Impedance: 600 ohms Output Level: (at 1,000 Hz)
Open Circuit Voltage* -71 dB (0.28 mV)



Frequency Response: 50 to 15,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* ... -65 dB (0.06 mV)

Power Level** ... -64 dB



MODEL SM2

MICROPHONE

Type: Dynamic, Close-Talking Frequency Response: (at 8 mm [5/16 in.]) 50 to 15,000 Hz

Folar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (200 ohms actual)
Output Level: (close-talked at 1,000 Hz)
Open Circuit Voltage*... - 47.0 dB (4.5 mV)
Power Level**....-66.0 dB

RECEIVERS

Type: Dynamic Frequency Response: 100 to 8,000 Hz Impedance: 2,000 ohms at 1 kHz Output Level: (at each ear) 104.0 dB SPL with 1.4V at 1 kHz



MODEL 570S

Type: Dynamic Frequency Response: 50 to 12,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (180 ohms actual) Output Level: (at 1,000 Hz) -81.5 dB (.08 mV) Open Circuit Voltage* . . . Power Level**

-60.0 dB

MODEL SM1

MICROPHONE

Type: Dynamic, Close-Talking Frequency Response: (at 8 mm [5/16 in.]) 50 to 15,000 Hz

Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (200 ohms actual) Output Level: (close-talked at 1,000 Hz) Open Circuit Voltage* . . . - 47.0 dB (4.5 mV)

Power Level** - 66.0 dB

RECEIVER

Type: Dynamic

**0 dB = 1 mW/10 μ bar

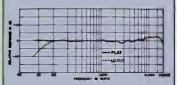
Frequency Response: 100 to 8,000 Hz Impedance: 2,000 ohms at 1 kHz Output Level: 104.0 dB SPL with 1.4V at 1 kHz

MODEL SM90

MODEL SM91

Type: Condenser for surface mounting
Frequency Response: 20 to 20,000 Hz at 30°
incidence to infinite surface Polar Pattern: Omnidirectional in hemisphere

above mounting surface Impedance: 150 ohms (90 ohms actual) Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to flat surface) Open Circuit Voltage* ... - 66.0 dB (0.5 mV)



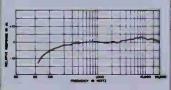
MODEL 819

Type: Cardioid condenser for surface mounting Frequency Response: 60 to 20,000 Hz at 30° incidence to infinite surface Polar Pattern: Half-cardioid (cardioid in

hemisphere above mounting surface)
Impedance: 600 ohms

Output Level: (at 1,000 Hz, measured with sound source at 30° incidence to Infinite surface)

Open Circuit Voltage* . . . - 71.0 dB (0.28 mV)



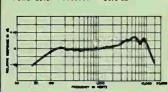
MODEL SM48 Type: Dynamic Frequency Response: 55 to 14,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (270 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* ... - 77.5 dB (0.13 mV) Power Level** ... - 59 dB **MODEL SM58**

MODELS 565D and 565SD

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: LOZ: 150 ohms (180 ohms actual) "High"

Output Level: (at 1,000 Hz)

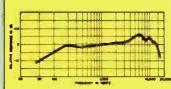
LO Z HI Z -76.0 dB -54.0 dB Open Circuit Voltage* (0.16 mV) (2.0 mV) Power Level** -56.0 dB



MODEL SM57

Type: Dynamic Frequency Response: 40 to 15,000 Hz Polar Pattern: Cardiold (unidirectional) Impedance: 150 ohms (310 ohms actual) Output Level: (at 1,000 Hz)

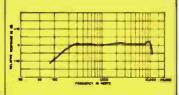
Open Circuit Voltage* . . .
Power Level** -75.5 dB (0.17 mV) $-56.0 \, dB$



MODEL SM62

Type: Dynamic Frequency Response: 100 to 10,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (180 ohms actual)

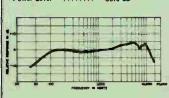
Output Level: (at 1,000 Hz) Open Circuit Voltage* Power Level** -81.5 dB (.08 mV) -60.0 dB



Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (310 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* . . . - 75.5 dB (0.17 mV)

Power Level** - 56.0 dB

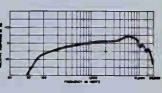


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MODEL SM87

Type: Supercardioid condenses Frequency Response: 50 to 18,000 Hz Polar Pattern: Supercardioid (unidirectional) Impedance: 150 ohms (85 ohms actual) Output Level: (at 1,000 Hz)
Open Circuit Voltage* . . .

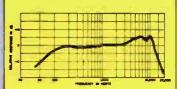
-74 dB (0.2 mV)



MODEL SM77

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardiold (unidirectional) Impedance: 150 ohms (250 ohms actual)

Output Level: (at 1,000 Hz) Open Circuit Voltage* . . .
Power Level** -77.5 dB (0.13 mV) -57.5 dB

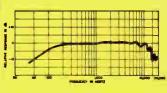


MODEL SM59

Type: Dynamic

Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (160 ohms actual) Output Level: (at 1,000 Hz)

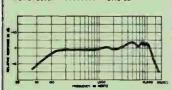
Open Circuit Voltage* Power Level** -83 dB (.07 mV) -61 dB



MODEL SM78

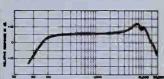
Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (250 ohms actual) Output Level: (at 1,000 Hz)

Open Circuit Voltage* ... -77.5 dB (0.13 mV)
Power Level** -57.5 dB -57.5 dB



MODEL SM85

Type: Cardioid condenser Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (85 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* 74 dB (0.2 mV)



MODELS 545D and 545SD

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional)

Impedance: LO Z: 150 ohms (275 ohms actual) HI Z: "High" Output Level: (at 1,000 Hz)

107 HI 7 Open Circuit Voltage* . .

MODELS 515SA and 515SB

Type: Dynamic Frequency Response: 80 to 13,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 515SA — "High" 515SB - 150 ohms (170 ohms actual)

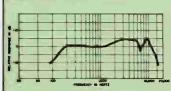
Output Level: (at 1,000 Hz) 515SA -59.0 dB -82.5 dB (1.1 mV) (.074 mV) Open Circuit Voltage* . . Power Level** 61.0 dB

MODEL 588SD

Type: Dynamic Prequency Response: 80 to 13,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance: LO Z: 150 ohms (180 ohms actual)

HI Z: "High"
Output Level: (at 1,000 Hz)

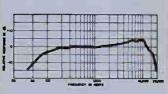
	LU Z	mi Z
Open Circuit Voltage*	-82.0 dB	-59.5 dB
	(0.08 mV)	(1.1 mV)
Power Level**	-60.5 dB	



MODEL SM96 Type: Cardioid condenser Prequency Response: 70 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (200 ohms actual)

Output Level: (at 1,000 Hz) Open Circuit Voltage*

74 dB (0.2 mV) (phantom) -75 dB (0.18 mV) (battery)



-56.0 dB

-78.0 dB -55.0 dB (0.13 mV) (1.76 mV) Power Level** -58.5 dB

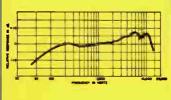
MODEL 545SH

Power Level**

Type: Dynamic Frequency Response: 50 to 15 000 Hz Polar Pattern: Cardioid (unidirectional)

Impedance: LO Z: 150 ohms (250 ohms actual) HI 7: "High"

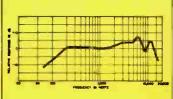
Output Level: (at 1,000 Hz) LO Z HI Z Open Circuit Voltage* -76.0 dB -54.0 dB (0.16 mV) (2.0 mV)



515SD Type: Dynamic Frequency Response: 80 to 13,000 Hz Potar Pattern: Cardioid (unidirectional) Impedance: LO Z: 150 ohms (170 ohms actual)

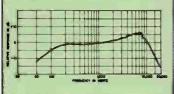
HI Z: "High" Output Level: (at 1,000 Hz)

LO Z HI Z -82.5 dB -59.0 dB (.074 mV) (1.1 mV) Open Circuit Voltage* . . Power Level** -61.0 dB



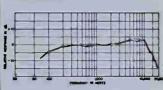
MODEL 587SB

Type: Dynamic Frequency Response: 55 to 14,000 Hz Polar Pattern: Cardioid (unidirectional)
Impedance: 150 ohms (270 ohms actual) Output Level: (at 1,000 Hz) Open Circuit Voltage* ... -77.5 dB (0.13 mV)
Power Level** -59 dB



MODEL 869

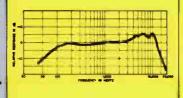
Type: Cardioid condenser Frequency Response: 70 to 16,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 600 ohms Output Level: (at 1,000 Hz) Open Circuit Voltage* -78 dB (0.13 mV)



MODEL 545L

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Impedance: 150 ohms (250 ohms actual) Output Level: (at 1,000 Hz)

-77.5 dB (0.13 mV) -57.5 dB



MODEL SM17

Type: Dynamic Frequency Response: 50 to 15,000 Hz Polar Pattern: Omnidirectional Impedance: 150 ohms (200 ohms actual)

Output Level: (at 1,000 Hz)
Open Circuit Voitage*...
Power Level** -84.5 dB (.06 mV) -63.5 dB



MODEL W10BT

RF Power Output: 50 mW maximum Input Impedance: Actual: 16k (20k dc), pin 4 wired to pin 3 for WL83 microphone; 91k, pin 4 open for microphone or instrument pickup Maximum Input Level:

Gain pot minimum,
gain switch low 1.075 Vrms
Antenna: Attached, 305mm (12 in.),
omnidirectional, flexible wire

Battery: Standard 9-volt alkaline; 6-8 hours
typical life

MODEL WL83

Type: Condenser
Frequency Response: 50 to 16,000 Hz
Polar Pattern: Omnidirectional

Output Impedance: 1,200 ohms Output Level:

Open Circuit Voltage*.... -65.5 dB (.53 mV)
Maximum Sound Pressure Level: 136 dB

MODEL WL84

Type: Condenser Frequency Response: 50 to 16,000 Hz Polar Pattern: Supercardioid (unidirectional) Output Impedance: 1,200 ohms Output Level:

Open Circuit Voltage* - 66 dB (.50 mV)

Maximum Sound Pressure Level: 136 dB

MODEL WM98

Type: Condenser Frequency Response: 40 to 20,000 Hz Polar Pattern: Cardioid (unidirectional) Output Impedance: 1,200 ohms Output Level:

Open Circuit Voltage* -74.0 dB (0.2 mV)

Maximum Sound Pressure Level: 144 dB

MODEL WM15

Type: Condenser Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid (unidirectional) Output Impedance: 1,200 ohms Output Level: (close-talked at 1,000 Hz)

Open Circuit Voltage
- 31.0 dB (2.82 mV) at 10 mm (0.39 in.)
- 32.5 dB (2.37 mV) at 610 mm (24 in.)

Maximum Sound Pressure Level: 141 dB

RF frequency range on all wireless units is 163-216 mHz, high band VHF-FM.
15 frequencies are stocked.

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MODELS AMS4000 & AMS8000 MIXER

Output Level:

Microphone Input: (72 dB SPL in) Line: +15.8 dBV (+18 dBm)

Mic: + 15.8 dBV Mic: - 34 dBV Aux: + 17 dBV

Direct: -56 dBV Phones: -4 dBV

Input Clipping Level at 1 kHz: 128 dB SPL

Aux input: (-22 dBV in) Line: +15.8 dBV Mic: -34 dBV Aux: +17 dBV Phones: -4 dBV

Input Clipping Level at 1 kHz: +7 to +20 dBV*

*Oepending on Aux control setting.

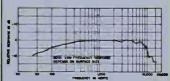
Frequency Response:

Aux Input to Outputs: 30 to 20,000 Hz ± 2 dB Mic Input to Outputs: 70 to 20,000 Hz ± 2 dB (controlled low-frequency rolloff below 50 Hz)
Operating Voltage: 105-132 Vac, 50/60 Hz, 20W.
Can be rewired for 210-264 Vac, 50/60 Hz, 20W.
20W.

MODEL AMS880 VIDEO SWITCHER INTERFACE

Inputs: Eight, plus ground, TTL logic level
Outputs: Eight, plus common, FET optically
isolated; not connected to input ground
External power transformer: 120 Vac + 10%,

MODEL AMS22

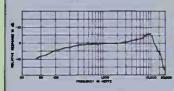


MODEL AMS24

Type: Gooseneck
Frequency Response: 50 to 16,000 Hz
Polar Pattern: Cardioid (unidirectional)
Output Level: (at 1,000 Hz)
Open Circuit Voltage*

MODEL AMS26

Type: Probe
Frequency Response: 50 to 16,000 Hz
Polar Pattern: Cardioid (unidirectional)
Output Level: (at 1,000 Hz)
Open Circuit Voltage*....-54 dB



MODEL AMS28



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MODEL 1200 POWERMIXER

Type: Mono Powermixer
Frequency Response: Flat + 1, -3 dB, 40 Hz to 20 kHz (any input to any output)
Inputs: Six input channels: six unbalanced highand/or balanced low-impedance inputs; channels 1 and 2 high-impedance inputs switchable to Aux level; available expansion modules each contain 2 high- and 2 lowimpedance microphone inputs; two modules (4 channels) can be added to each 1200.
Power Output: (1 kHz, 120 Vac, 1% THO) 200 watts minimum with 4 ohm speaker

120 watts minimum with 8 ohm speaker MODEL 3100/3200 SPEAKER

Power Rating: Maximum recommended amplifier output to 8 ohms: 120 watts program, 31 Vrms, 44 V peak

Frequency Response: 60 Hz to 13 kHz ± 5 dB Impedance: 8 ohms rated 5.6 ohms minimum Sound Pressure Level: 98 dB SPL at 1 m with 1 W input (2.83 V)

MODEL SC39EJ

Stylus Configuration: Biradial (elliptical) Mounting Style: 1/2-inch Tracking Force Range: 1.5 to 3.0 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 4.0 mV Channel Separation: 20 dB at 1 kHz

MODEL SC39B

Stylus Configuration: Spherical Mounting Style: 1/2-inch Tracking Force Range: 1.5 to 3.0 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 4.0 mV Channel Separation: 20 dB at 1 kHz

MODEL SC35C

Stylus Configuration: Spherical Mounting Style: 1/2-inch Tracking Force Range: 4.0 to 5.0 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL BC70

Stylus Contiguration: Spherical Mounting Style: 1/2-inch Tracking Force Range: 2.5 to 3.5 grams Frequency Response: 20 to 15,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL BC80

Stylus Configuration: Elliptical Mounting Style: P-mount Tracking Force Range: 1.0 to 1.5 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL BC90

-54 dB

Stylus Configuration: Elliptical Mounting Style: 1/2-inch Tracking Force Range: 1.0 to 1.5 grams Frequency Response: 20 to 20,000 Hz Oplut Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL DC40

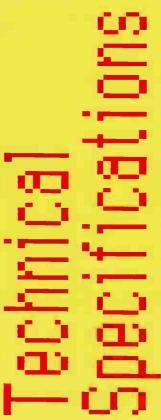
Stylus Configuration: Spherical Mounting Style: 1/2-inch Tracking Force Range: 2.5 to 3.5 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL DC50

Stylus Configuration: Elliptical Mounting Style: P-mount Tracking Force Range: 1.0 to 1.5 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz

MODEL DC60

Stylus Contiguration: Elliptical Mounting Style: 1/2-inch Tracking Force Range: 1.0 to 1.5 grams Frequency Response: 20 to 20,000 Hz Output Voltage: 5.0 mV Channel Separation: 20 dB at 1 kHz





Microphone Model Number	Cable	Cartridge	Screen & Grille Assembly	Swivel Adapter	Windscreen	(4) Misc. Accessories
SM94	(1)	R138	RK249G	A25C*	A3WS	A53HM, PS1A (6)
SM96	(1)	R137	RK243G	A25C*	A85WS	A53HM, PS1A (6)
SM98	C107	R134	1	RK245*	49A66*	A98MK, A98G-18, A98HA A98PF, A98KC, A98SPM, A98GM, PS1A (6)
SM99	- 1	99A878		-	90B4016*	A25C, A57E, PS1A (6)
WL83	90A401 5	90CG2600	ı	-	RK242WS* (3)	RK239MB* (3), RK240SB* (3)
WL84	90A4015	90DM2600	1	-	RK261WS* (3)	RK239MB* (3), RK240SB* (3)
WM15	-	R145	1	-	49A74A	-
WM98	90A4039	R134	1	RK245*	49A66*	A98PF, A98KC Series, A98SPM
W15HT/58	-	R149	RK143G	WA370*	A58WS (2)	-
W15HT/87	-	R150	RK214G	WA370*	A85WS	-
AMS22	C101	-	-	-	-	-
AMS24	90BZ2600	-	90BZ2600	-	49C55*	-
AMS26	C25E	-	RK228G	A57E*	RK229WS*	A26X
AMS28	R124	-	-	_	-	A57L

See Cable Selection Guide on Page 21.

(1) See Cable Selection Guide on Page 21.(2) A58WS Windscreens are available in an assortment of colors.

Kit contains four.

See Accessories on Pages 16, 17 and 18.

(5) With A2WS Windscreen, use A26M.

(6) PS1A for 90-132 Vac; also 240 Vac (180-264).

Indicates accessory cannot be used with product. Furnished accessory.

MICROPHONE CABLE SELECTION CHART
The cables listed in this chart represent just some of the many cables available from Shure. These cables are high durability and shielded for use with low or high impedance microphones.

Model	Microphone Connector	Equipment Connector	Cable Type	Cable Length	Cable Conductors
C15A	3-Socket	1/4" Phone Plug	Hi-Flex	15 Feet (4.6m)	1
C20B	3-Socket	1/4" Phone Plug	Hi-Flex	20 Feet (6.1m)	1
C20D	3-Socket		Heavy Gauge	20 Feet (6.1m)	2
C20H	3-Socket	3-Pin	Heavy Gauge	20 Feet (6.1m)	2
C25B	3-Socket Black	3-Pin	Heavy Gauge	25 Feet (7.6m)	2
C25E	3-Socket Black	3-Pin	Triple-Flex®**	25 Feet (7.6m)	2
C25F	3-Socket	3-Pin	Triple-Flex®**	25 Feet (7.6m)	2
C25J*	3-Socket	3-Pin	Hi-Flex	25 Feet (7.6m)	2

*Also available in 50-foot (15m) and 100-foot (30m) lengths (C50J and C100J).

**Triple-Flex cable features greatly extended flex life, superior hum shielding, and Switchcraft connectors.

SHURE



Microphones pictured (left to right):
Model 720B (crystal, 1938), Model 703S (crystal, 1936),
Model 33N (carbon, 1932), Model 40D (condenser, 1935),
Model 556B (dynamic, 1938).

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