

# PIN-OUT FOR SHURE BODYPACK TRANSMITTERS AND PREAMPS - TA4M / TA4F

Question

What is the pin-out for Shure bodypack transmitters?

Answer

Product Model	Wiring
<ul style="list-style-type: none"><li>Wireless bodypack transmitters - all models with TA4M connectors</li><li>MX1BP Battery/Phantom Preamp</li><li>RK183PK Microflex Preamp (see below for RF Resistant RK100PK preamp model)</li><li>RPM626 BETA Preamp</li></ul>	Pin 1: Shield Pin 2: Bias (+5Vdc) Pin 3: Audio Pin 4: Bias return - 20 k Ohm resistor to ground or equivalent active bias management circuit (jumped to pin 3 when used with most condenser microphones)
<ul style="list-style-type: none"><li>RK100PK Wired Preamp</li></ul>	Connector Body: Shield Pin 1: Unused Pin 2: Bias (+5Vdc) Pin 3: Audio Pin 4: Bias return - active bias management circuit (jumped to pin 3 when used with most condenser microphones)



The pictorial shows the pin layout of a TA4F connector, as viewed from the wiring side. If you use a bright light and look at the female connector (TA4F) used for the cable, you will see numbers next to each hole.

## Applications:

Condenser Microphones - Shure WH30, PG30, WL18x, WL50, WL51, WL93, etc.

- Connect audio lead (black) to pins 3 and 4
- Connect bias lead (red) to pin 2
- Connect shield to pin 1 and connector body (use cable clamp insert piece as the connector body terminal)

The following chart provides compatibility information between Shure lavalier and headset mics and Shure wireless systems for TQG (TA4F) native devices. This table does not apply to systems which use LEMO3 or other connectors.

Device	Twinplex	Duraplex	WL93	WL183 WL184 WL185	WH30 SM35	MX150	MX153	WBH53 WBH54	CVL PG185	PGA31 SM31FH
<b>AD1 (TQG) ADX1 (TQG)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>ULXD1 (TQG)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>QLXD1</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>SLXD1</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>PGXD1</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>GLXD1</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>MXW1</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes (1)	Yes	Yes	Yes
<b>BLX1</b>	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
<b>RPM400TQG</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>RK100PK (2)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Notes:**

1. MXW1 transmitters may not correctly detect an MX153 microphone. Set the transmitter to **External** mode in the Microflex Wireless software when using an MX153 element.
2. RK100PK adds 10 dB of gain to the microphone compared to RPM400TQG.

End of Life Notification: In June 2019, Shure announced the discontinuation of several wired microphone products as a result of product line maintenance and to make it easier for our customers to find the right product for your application.

Discontinued Models	Description	Final U.S. Retail Price	Replacement
SM10A-CN	Headset Microphone	\$173	BRH31M
SM87A	Vocal Microphone *	\$279	SM86, BETA 87A, BETA87C
SM93	Miniature Lavalier Microphone	\$186	MX183, MX150, or WL93 + RPM400TQG
SM94	Instrument Microphone	\$223	PGA81, SM137, or KSM137
BETA 53	Headworn Vocal Microphone	\$436	WBH53 + RPM627 preamp
BETA 54	Headworn Vocal Microphone	\$436	WBH54 + RPM627 preamp
BETA 98/S	Instrument Microphone	\$249	BETA 98A/S
BETA 98D/S	Snare/Tom Microphone	\$286	BETA 98AD/C
BETA 98A/C	Instrument Microphone	\$249	BETA 98AD/C or WB98H + RPM627

\* RPW116 (SM87A cartridge for wireless use) is not discontinued and continues to be available.

*Discontinued products continue to be available while stocks last.*