

TwinPlex™ TL48 Subminiature Lavalier Microphones

Overview

The TwinPlex™ TL48 offers a tailored response with a mid-range rise that's ideal for speech and dialogue applications, such as film and TV. Designed with leading audio professionals' input, the TL48 is easily concealed in a costume or directly against the skin under wardrobe, and offers extensive accessories to ensure quick, easy, and secure mounting—all with no impact on sound quality.

Features

- With a fixed frequency cap and mid-band boost that accentuates dialogue, the TL48 is ideal for film and TV applications
- Improved off-axis consistency, due to the patent pending dual-diaphragm design, yields accurate reproduction regardless of vocal source position or movement
- Best-in-class low self-noise and dynamic range for cleaner audio production
- Fixed frequency cap with internal hydrophobic woven lining resists sweat and moisture
- Paintable 1.6 mm cable that is immune to memory effect and kinks
- Dual redundant ground in cable serves as secondary shield for longevity
- Sound signature: Tailored for dialogue (6dB mid-band boost at about 7kHz)
- Sensitivity: Low
- Colors: Black, Tan, White
- Connectors: LEMO, MTQG/TA4F, XLR/Preamp, NC (bare wire)
- Accessories: Available with accessories

Specifications

Microphone Capsule	Dual-Diaphragm, Prepolarized Condenser
Polar Pattern	Omnidirectional
Frequency Response	20 Hz to 20 kHz
Sensitivity <i>at 1 kHz</i>	-45.0 dBV (5.62 mV)
Self-Noise, <i>A-Weighted, Equivalent Acoustical</i>	24.5 dB SPL-A
Signal-To-Noise Ratio	69.5 dB
Output Clipping Level	3.0 dBV, 1 kHz <i>at 1% THD, typical</i>
Maximum SPL	142.0 dB SPL <i>1 kHz at 1% THD, typical</i>
Dynamic Range	117.5 dB <i>typical</i>
Microphone Current Draw	120 to 240 µA, typical
Bias Voltage <i>Recommended Operating Voltage</i>	5 VDC
Housing	Molded ABS
Polarity	LEMO, NC: Positive pressure at diaphragm leads to negative voltage with respect to ground MTQG, XLR connector: Positive pressure at diaphragm leads to positive voltage with respect to ground
Cable Diameter	1.6 mm
Cable Length	MTQG, LEMO: 66 in. (1.67 m) NC, XLR connector: 96 in. (2.43 m)
Microphone Length	19 mm
Microphone Diameter	5.3 mm
Net Weight <i>with Cable</i>	12.0 g (0.42 oz.)

Available Models

TL48B/O-LEMO-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with LEMO Connector, Black with Accessories
TL48B/O-MTQG-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with MTQG Connector, Black with Accessories
TL48B/O-NC-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with bare wire terminal, Black with Accessories
TL48B/O-XLR-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with XLR Preamp, Black with Accessories
TL48T/O-LEMO-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with LEMO Connector, Tan with Accessories
TL48T/O-MTQG-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with LEMO Connector, Tan with Accessories
TL48T/O-NC-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with bare wire terminal, Tan with Accessories
TL48W/O-LEMO-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with LEMO Connector, White with Accessories
TL48W/O-MTQG-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with MTQG Connector, White with Accessories
TL48W/O-NC-A	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, Tailored Response, 1.6 mm Cable with bare wire terminal, White with Accessories



TwinPlex™ TL48
Subminiature Lavalier
Microphone



Updated:03/19

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2019 Shure Incorporated

TwinPlex™ TL48 Subminiature Lavalier Microphones

Furnished Accessories

- Single Tie Clip, Qty. 1
- Dual Tie Clip, Qty. 1
- Standoff for Tie Clip, Qty. 5
- Vampire Mount, Qty. 1
- Sticky Vampire Mount, Qty. 1
- Foam Windscreen, Qty. 2
- Clear Sticky Mount, Qty. 1
- Sticky Mount Adhesives, Qty. 10
- Storage Case for TL Lavalier, Qty. 1

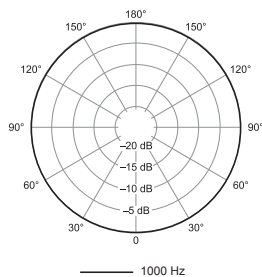


Included Accessories Shown

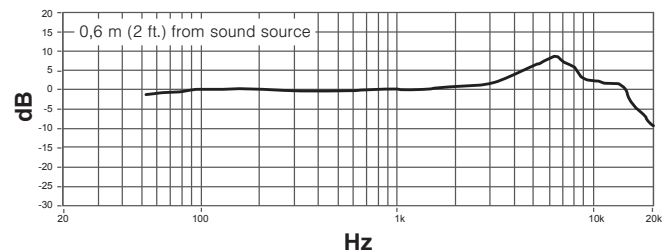
Optional Accessories

Replacement Connectors		Clips and Mounts		Preamps	
WA430	Replacement Neutrik mTQG connector kit, TA4F	RPM40STC/B	Single Tie Clip, Black, Qty. 3	RPM400TQG	Wired TQG to XLR Preamplifier with Beltclip
WA435	Replacement Neutrik mTQG connector kit, TA5F	RPM40STC/T	Single Tie Clip, Tan, Qty. 3	RPM400LEMO	Wired LEMO3 to XLR Preamplifier with Beltclip
WA445	Neutrik threaded collar shell for WA430/WA435	RPM40STC/W	Single Tie Clip, White, Qty. 3	Other	
WA416	Replacement LEMO3, 1.6 mm connector	RPM40TC/B	Dual Tie Clip, Black, Qty. 3	RPM40PREMNT	Preamplifier Mounting Kit
Windscreens		RPM40TC/T	Dual Tie Clip, Tan, Qty. 3	RPM40PRECLIP	Beltclip for RPM400 Preamplifiers
RPM40WS/B	Windscreens, Black, Qty. 5	RPM40TC/W	Dual Tie Clip, White, Qty. 3	RPM40KIT	Full Accessory Kit for TL Lavaliers
RPM40WS/T	Windscreens, Tan, Qty. 5	RPM40TC/M	Single Tie Clip Mix Pack (1 of each color)	RPM40CASE	Storage Case for TL Lavalier
RPM40WS/W	Windscreens, White, Qty. 5	RPM40VM/B	Black Vampire Clip, Qty. 3		
RPM40WS/M	Windscreens (2 of each color), Qty. 8	RPM40VM/W	White Vampire Clip, Qty. 3		
RPM40MWJ	Rycote MiniWindjammer, Gray, Qty. 2	RPM40SM	Clear Sticky Mount Qty. 3		
		RPM40MM/B	Black Magnet Mount, Qty. 2		
		RPM40MM/W	White Magnet Mount, Qty. 2		
		RPM40SVM/B	Vampire Sticky Mount, Qty. 3		
		RPM40TS	Adhesives for Sticky Mount. Qty. 15		
		RPM40TS/50	Adhesives for Sticky Mount. Qty. 50		
		RPM40SO/B	Black Standoff for TL accessories, Qty. 10		
		RPM40SO/C	Cocoa Standoff for TL accessories, Qty. 10		
		RPM40SO/T	Tan Standoff for TL accessories, Qty. 10		
		RPM40SO/W	White Standoff for TL accessories, Qty. 10		

Polar Patterns



Frequency Response



SHURE®

Updated:03/19

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2019 Shure Incorporated