

# TwinPlex™ TL47 Subminiature Lavalier Microphones

## Overview

The expressively natural sounding TwinPlex™ TL47 is available with color options and mounting choices for all professional applications. The low sensitivity can handle critical acoustic environments without distortion and the 1.6 mm paintable cable stands up to the most demanding and challenging situations. The TL47 is the go-to subminiature lavalier line for flexibility.

## Features

- With a variety of colors, mounting options, and accessories, the TL47 is ideal for nearly any lavalier application
- Twice the surface area of other subminiature microphones for pristine, natural response and robust low-frequency response due to the patent pending dual-diaphragm design
- Improved off-axis consistency yields accurate reproduction regardless of vocal source position or movement
- Best-in-class low self-noise and dynamic range for cleaner audio production
- Interchangeable sweat- and moisture-resistant frequency caps prevent sweat-outs due to an invisible superhydrophobic nanoscopic coating
- 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: Natural
- Sensitivity: Low
- Colors: Black, Cocoa, Tan, White
- Connectors: LEMO, MTQG/TA4F, XLR/Preamp, NC (bare wire)
- Accessories: Available with or without accessories

## Specifications

Microphone Capsule	Dual-Diaphragm, Prepolarized Condenser
Polar Pattern	Omnidirectional
Frequency Response	20 Hz to 20 kHz
Sensitivity at 1 kHz	-45.0 dBV (5.62 mV)
Self-Noise, A-Weighted, Equivalent Acoustical	24.5 dB SPL-A
Signal-To-Noise Ratio	69.5 dB
Output Clipping Level	3.0 dBV, 1 kHz at 1% THD, typical
Maximum SPL	142.0 dB SPL 1 kHz at 1% THD, typical
Dynamic Range	117.5 dB typical
Microphone Current Draw	120 to 240 µA, typical
Bias Voltage Recommended Operating Voltage	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	66 in. (1.67 m)
Microphone Length	13.5 mm
Microphone Diameter	5.6 mm
Net Weight with Cable	12.0 g (0.42 oz.)



**TwinPlex™ TL47**  
Subminiature Lavalier  
Microphone

## Available Models

<b>TL47B/O-LEMO</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Black
<b>TL47B/O-LEMO-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Black with Accessories
<b>TL47B/O-MTQG</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Black
<b>TL47B/O-MTQG-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Black with Accessories
<b>TL47B/O-NC-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with bare wire terminal, Black
<b>TL47B/O-XLR-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with XLR Connector, Black with Accessories
<b>TL47C/O-LEMO</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Cocoa
<b>TL47C/O-LEMO-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Cocoa with Accessories
<b>TL47C/O-MTQG</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Cocoa
<b>TL47C/O-MTQG-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Cocoa with Accessories
<b>TL47C/O-NC-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with bare wire terminal, Cocoa with Accessories
<b>TL47T/O-LEMO</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Tan
<b>TL47T/O-LEMO-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, Tan with Accessories
<b>TL47T/O-MTQG</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Tan
<b>TL47T/O-MTQG-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, Tan with Accessories
<b>TL47T/O-NC-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with bare wire terminal, Tan with Accessories
<b>TL47W/O-LEMO</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, White
<b>TL47W/O-LEMO-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with LEMO Connector, White with Accessories
<b>TL47W/O-MTQG</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, White
<b>TL47W/O-MTQG-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with MTQG Connector, White with Accessories
<b>TL47W/O-NC-A</b>	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.6 mm Cable with bare wire terminal, White with Accessories



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## Furnished Accessories

- Frequency Caps, Flat Response, Qty. 3
- Frequency Caps, Presence Response, Qty. 2

### -A SKUs add:

- 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

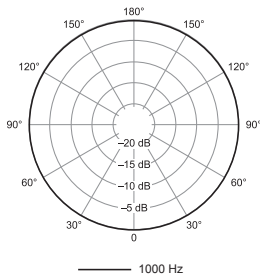


-A Included Accessories Shown

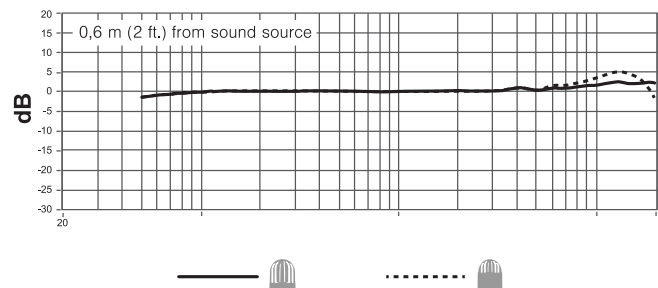
## Optional Accessories

Replacement Connectors		Clips and Mounts		Preamps	
<b>WA430</b>	Replacement Neutrik mTQG connector kit, TA4F	<b>RPM40STC/B</b>	Single Tie Clip, Black, Qty. 3	<b>RPM400TQG</b>	Wired TQG to XLR Preamplifier with Beltclip
<b>WA435</b>	Replacement Neutrik mTQG connector kit, TA5F	<b>RPM40STC/C</b>	Single Tie Clip, Cocoa, Qty. 3	<b>RPM400LEMO</b>	Wired LEMO3 to XLR Preamplifier with Beltclip
<b>WA445</b>	Neutrik threaded collar shell for WA430/WA435	<b>RPM40STC/T</b>	Single Tie Clip, Tan, Qty. 3	<b>Other</b>	
<b>WA416</b>	Replacement LEMO3, 1.6 mm connector	<b>RPM40STC/W</b>	Single Tie Clip, White, Qty. 3	<b>RPM40PREMNT</b>	Preamplifier Mounting Kit
<b>Windscreens</b>		<b>RPM40TC/B</b>	Dual Tie Clip, Black, Qty. 3	<b>RPM40PRECLIP</b>	Beltclip for RPM400 Preamplifiers
<b>RPM40WS/B</b>	Windscreens, Black, Qty. 5	<b>RPM40TC/C</b>	Dual Tie Clip, Cocoa, Qty. 3	<b>RPM40KIT</b>	Full Accessory Kit for TL Lavaliers
<b>RPM40WS/T</b>	Windscreens, Tan, Qty. 5	<b>RPM40TC/T</b>	Dual Tie Clip, Tan, Qty. 3	<b>RPM40CASE</b>	Storage Case for TL Lavalier
<b>RPM40WS/C</b>	Windscreens, Cocoa, Qty. 5	<b>RPM40TC/W</b>	Dual Tie Clip, White, Qty. 3		
<b>RPM40WS/W</b>	Windscreens, White, Qty. 5	<b>RPM40TC/M</b>	Single Tie Clip Mix Pack (1 of each color)		
<b>RPM40WS/M</b>	Windscreens (2 of each color), Qty. 8	<b>RPM40VM/B</b>	Black Vampire Clip, Qty. 3		
<b>RPM40MWJ</b>	Rycote MiniWindjammer, Gray, Qty. 2	<b>RPM40VM/W</b>	White Vampire Clip, Qty. 3		
<b>Frequency Caps</b>		<b>RPM40SM</b>	Clear Sticky Mount Qty. 3		
<b>RPM40FC/B</b>	Flat cap, Black, Qty. 10	<b>RPM40MM/B</b>	Black Magnet Mount, Qty. 2		
<b>RPM40FC/C</b>	Flat cap, Cocoa, Qty. 10	<b>RPM40MM/W</b>	White Magnet Mount, Qty. 2		
<b>RPM40FC/T</b>	Flat cap, Tan, Qty. 10	<b>RPM40SVM/B</b>	Vampire Sticky Mount, Qty. 3		
<b>RPM40FC/W</b>	Flat cap, White, Qty. 10	<b>RPM40TS</b>	Adhesives for Sticky Mount. Qty. 15		
<b>RPM40PC/B</b>	Presence cap, Black, Qty. 10	<b>RPM40TS/50</b>	Adhesives for Sticky Mount. Qty. 50		
<b>RPM40PC/C</b>	Presence cap, Cocoa, Qty. 10	<b>RPM40SO/B</b>	Black Standoff for TL accessories, Qty. 10		
<b>RPM40PC/T</b>	Presence cap, Tan, Qty. 10	<b>RPM40SO/C</b>	Cocoa Standoff for TL accessories, Qty. 10		
<b>RPM40PC/W</b>	Presence cap, White, Qty. 10	<b>RPM40SO/T</b>	Tan Standoff for TL accessories, Qty. 10		
		<b>RPM40SO/W</b>	White Standoff for TL accessories, Qty. 10		

### Polar Patterns



### Frequency Response



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