

# 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, MicroDot, 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<br><i>at 1 kHz</i>                          | -45.0 dBV (5.62 mV)   |
| Self-Noise,<br><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<br><i>at 1% THD, typical</i>   |
| Maximum SPL   | 142.0 dB SPL<br><i>1 kHz at 1% THD, typical</i>   |
| Dynamic Range   | 117.5 dB<br><i>typical</i>  |
| Microphone Current Draw                                 | 120 to 240 µA, typical  |
| Bias Voltage<br><i>Recommended Operating Voltage</i>    | 5 VDC   |
| Housing   | Molded ABS  |
| Polarity  | LEMO, NC, MDOT: Positive pressure at diaphragm leads to negative voltage with respect to ground<br>MTQG, XLR connector: Positive pressure at diaphragm leads to positive voltage with respect to ground |
| Cable Diameter  | 1.6 mm  |
| Cable Length  | MTQG, LEMO, MDOT: 66 in. (1.67 m)<br>NC, XLR connector: 96 in. (2.43 m)   |
| Microphone Length                                       | 19 mm   |
| Microphone Diameter                                     | 5.3 mm  |
| Net Weight<br><i>with Cable</i>                         | 12.0 g (0.42 oz.)   |



**TwinPlex™ TL48**  
Subminiature Lavalier  
Microphone

## Available Models

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

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## 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

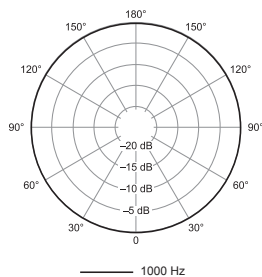


Included Accessories Shown

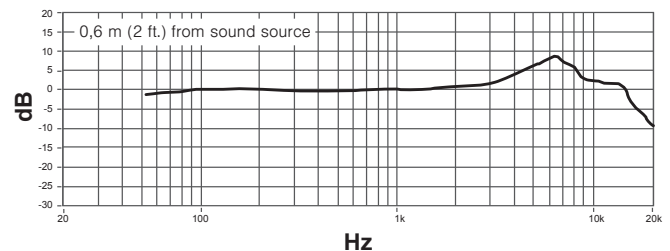
## Optional Accessories

| Replacement Connectors |   | Clips and Mounts  |  | Preamps                  |   |
|------------------------|---|-------------------|--|--------------------------|---|
| <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/T</b> | Single Tie Clip, Tan, Qty. 3               | <b>RPM400LEMO</b>        | Wired LEMO3 to XLR Preamplifier with Beltclip |
| <b>WA445</b>           | Neutrik threaded collar shell for WA430/WA435 | <b>RPM40STC/W</b> | Single Tie Clip, White, Qty. 3             | <b>MicroDot Adapters</b> |   |
| <b>WA416</b>           | Replacement LEMO3, 1.6 mm connector           | <b>RPM40TC/B</b>  | Dual Tie Clip, Black, Qty. 3               | <b>MD40LEMO</b>          | MicroDot-to-LEMO3 Adapter                     |
| <b>Windscreens</b>     |   | <b>RPM40TC/T</b>  | Dual Tie Clip, Tan, Qty. 3                 | <b>MD40TA4F</b>          | MicroDot-to-TA4F Adapter                      |
| <b>RPM40WS/B</b>       | Windscreens, Black, Qty. 5                    | <b>RPM40TC/W</b>  | Dual Tie Clip, White, Qty. 3               | <b>MD40TA5F</b>          | MicroDot-to-TA5F Adapter                      |
| <b>RPM40WS/T</b>       | Windscreens, Tan, Qty. 5                      | <b>RPM40TC/M</b>  | Single Tie Clip Mix Pack (1 of each color) | <b>Other</b>             |   |
| <b>RPM40WS/W</b>       | Windscreens, White, Qty. 5                    | <b>RPM40VM/B</b>  | Black Vampire Clip, Qty. 3                 | <b>RPM40PREMNT</b>       | Preamplifier Mounting Kit                     |
| <b>RPM40WS/M</b>       | Windscreens (2 of each color), Qty. 8         | <b>RPM40VM/W</b>  | White Vampire Clip, Qty. 3                 | <b>RPM40PRECLIP</b>      | Beltclip for RPM400 Preamplifiers             |
| <b>RPM40MWJ</b>        | Rycote MiniWindjammer, Gray, Qty. 2           | <b>RPM40SM</b>    | Clear Sticky Mount Qty. 3                  | <b>RPM40KIT</b>          | Full Accessory Kit for TL Lavaliers           |
|                        |   | <b>RPM40MM/B</b>  | Black Magnet Mount, Qty. 2                 | <b>RPM40CASE</b>         | Storage Case for TL Lavalier                  |
|                        |   | <b>RPM40MM/W</b>  | White Magnet Mount, Qty. 2                 |                          |   |
|                        |   | <b>RPM40SVM/B</b> | Vampire Sticky Mount, Qty. 3               |                          |   |
|                        |   | <b>RPM40TS</b>    | Adhesives for Sticky Mount, Qty. 15        |                          |   |
|                        |   | <b>RPM40TS/50</b> | Adhesives for Sticky Mount, Qty. 50        |                          |   |
|                        |   | <b>RPM40SO/B</b>  | Black Standoff for TL accessories, Qty. 10 |                          |   |
|                        |   | <b>RPM40SO/C</b>  | Cocoa Standoff for TL accessories, 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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