

TwinPlex™ TL46 Subminiature Lavalier Microphones

Overview

TwinPlex™ TL46 offers unmatched signal-to-noise, superior natural sound quality, and a high sensitivity output. Perfect for dialogue and medium SPL applications, the TL46 also features an ultra-durable 1.6 mm paintable cable, interchangeable moisture-resistant frequency caps with LEMO or TA4F connectors. It's the premium choice when the message needs to rise above the noise.

Features

- The TL46 is ideal for a variety of theater, film, broadcast, and live TV applications when additional output (8-10dB) is required
- 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: High
- Colors: Black, Cocoa, Tan, White
- Connectors: LEMO, MTQG/TA4F
- Accessories: Available separately

Specifications

Microphone Capsule	Dual-Diaphragm, Prepolarized Condenser
Polar Pattern	Omnidirectional
Frequency Response	20 Hz to 20 kHz
Sensitivity	-37.0 dBV(14.1 mV) at 1 kHz
Self-Noise, <i>A-Weighted, Equivalent Acoustical</i>	24.0 dB SPL-A
Signal-To-Noise Ratio	70.0 dB
Output Clipping Level	3.0 dBV, 1 kHz <i>at 1% THD, typical</i>
Maximum SPL	134.0 dB SPL <i>1 kHz at 1% THD, typical</i>
Dynamic Range	110.0 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: Positive pressure at diaphragm leads to negative voltage with respect to ground MTQG: 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 <i>with Cable</i>	12.0 g (0.42 oz.)

Available Models

TL46B/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with LEMO Connector, Black
TL46B/O-MTQG	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with MTQG Connector, Black
TL46C/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with LEMO Connector, Cocoa
TL46C/O-MTQG	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with MTQG Connector, Cocoa
TL46T/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with LEMO Connector, Tan
TL46T/O-MTQG	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with MTQG Connector, Tan
TL46W/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with LEMO Connector, White
TL46W/O-MTQG	TwinPlex™ Subminiature Omnidirectional Lavalier, High Sensitivity, 1.6 mm Cable with MTQG Connector, White



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Subminiature Lavalier
Microphone

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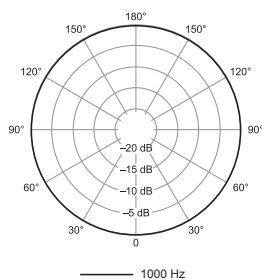
Furnished Accessories

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

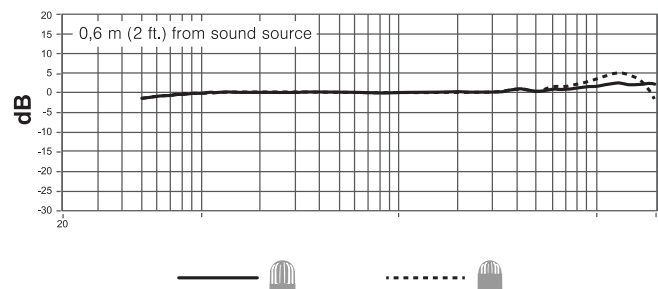
Optional Accessories

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

Polar Patterns



Frequency Response



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