TwinPlex™ TL45 Subminiature Lavalier Microphones

Overview

Expressively natural sound, low sensitivity, high max SPL, and interchangeable sweat-resistant frequency caps all make the TwinPlex™ TL45 the perfect companion for professional theater applications. The thin, durable 1.1 mm diameter paintable cable is terminated with a professional LEMO connector and is easily concealed in a costume or wig.

Features

- The TL45 is ideal for use in theater settings
- 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 1.1 mm cable that is immune to memory effect and kinks
- A single medical-grade spiraling conductor in the cable delivers increased flexibility while built-in reinforcing fibers offer additional cable strength for longevity
- Sound signature: Natural
- Sensitivity: Low
- Colors: Black, Cocoa, Tan, White
- Connectors: LEMO
- Accessories: Available separately

TwinPlex™ TL45
Subminiature Lavalier
Microphone

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	Positive pressure at diaphragm leads to negative voltage with respect to ground
Cable Diameter	1.1 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.)

Available Models

TL45B/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.1 mm Cable with LEMO Connector, Black
TL45C/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.1 mm Cable with LEMO Connector, Cocoa
TL45T/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.1 mm Cable with LEMO Connector, Tan
TL45W/O-LEMO	TwinPlex™ Subminiature Omnidirectional Lavalier, Low Sensitivity, 1.1 mm Cable with LEMO Connector, White

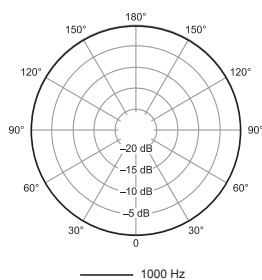# TwinPlex™ TL45 Subminiature Lavalier Microphones

Furnished Accessories

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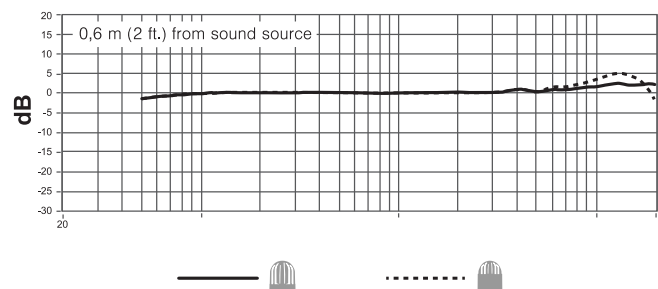- Frequency Caps, Presence Response, Qty. 2

Optional Accessories

Replacement Connectors		Clips and Mounts		Preamps	
WA411	Replacement LEMO3, 1.1 mm connector	**RPM40STC/B**	Single Tie Clip, Black, Qty. 3	**RPM400LEMO**	Wired LEMO3 to XLR Preamplifier with Beltclip
Windscreens		**RPM40STC/C**	Single Tie Clip, Cocoa, Qty. 3	**Other**	
RPM40WS/B	Windscreens, Black, Qty. 5	**RPM40STC/T**	Single Tie Clip, Tan, Qty. 3	**RPM40PREMNT**	Preamplifier Mounting Kit
RPM40WS/T	Windscreens, Tan, Qty. 5	**RPM40STC/W**	Single Tie Clip, White, Qty. 3	**RPM40PRECLIP**	Beltclip for RPM400 Preamplifiers
RPM40WS/C	Windscreens, Cocoa, Qty. 5	**RPM40TC/B**	Dual Tie Clip, Black, Qty. 3	**RPM40KIT**	Full Accessory Kit for TL Lavaliers
RPM40WS/W	Windscreens, White, Qty. 5	**RPM40TC/C**	Dual Tie Clip, Cocoa, Qty. 3	**RPM40CASE**	Storage Case for TL Lavalier
RPM40WS/M	Windscreens (2 of each color), Qty. 8	**RPM40TC/T**	Dual Tie Clip, Tan, Qty. 3		
RPM40MWJ	Rycote MiniWindjammer, Gray, Qty 2	**RPM40TC/W**	Dual Tie Clip, White, Qty. 3		
Frequency Caps		**RPM40TC/M**	Single Tie Clip Mix Pack (1 of each color)		
RPM40FC/B	Flat cap, Black, Qty. 10	**RPM40VM/B**	Black Vampire Clip, Qty. 3		
RPM40FC/C	Flat cap, Cocoa, Qty. 10	**RPM40VM/W**	White Vampire Clip, Qty. 3		
RPM40FC/T	Flat cap, Tan, Qty. 10	**RPM40SM**	Clear Sticky Mount Qty. 3		
RPM40FC/W	Flat cap, White, Qty. 10	**RPM40MM/B**	Black Magnet Mount, Qty. 2		
RPM40PC/B	Presence cap, Black, Qty. 10	**RPM40MM/W**	White Magnet Mount, Qty. 2		
RPM40PC/C	Presence cap, Cocoa, Qty. 10	**RPM40SVM/B**	Vampire Sticky Mount, Qty. 3		
RPM40PC/T	Presence cap, Tan, Qty. 10	**RPM40TS**	Adhesives for Sticky Mount. Qty. 15		
RPM40PC/W	Presence cap, White, Qty. 10	**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

1000 Hz

Frequency Response

0,6 m (2 ft.) from sound source