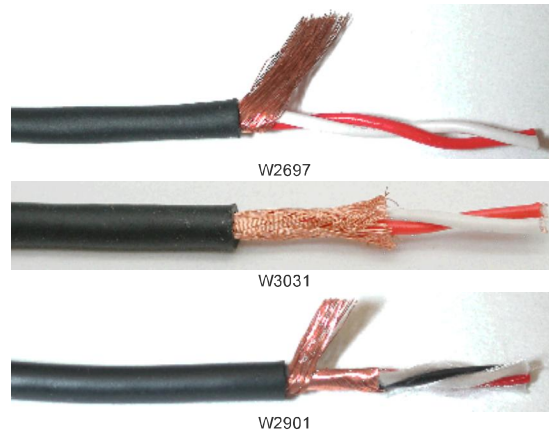


Miniature Balanced / Lavalier Microphone Cables

[Print This Page](#)



These miniature microphone cables feature necessary mechanical strength (tensile strength and long flex life) and flexibility for lavalier microphones and other applications. All balanced configuration. Part No. W3031 cable is exactly same construction as Part No. W2697 cable except for shield structure. Part No. W2697 cable is constructed with served (spiral) shield, while Part No. W3031 cable is constructed with braided shield. Part No. W2901 is specially designed with better tensile strength and longer flex life, sacrificing some sound quality, and creating a slightly more difficult soldering job because of used copper-tin alloy conductor, this cable is mechanically very strong and durable. Of course, its cost is higher.

[Back To Top](#)

Note: Any specific countermeasure against microphonics (noise) for high impedance microphones is not taken for these three lavalier microphone cables.

SPECIFICATIONS

Configuration				
Part No.		W2697	W3031	W2901
No. of Conductor		2		
Conductor	Details	16/0.08 A <T1000D*1>		43/0.04 Cu-Sn
	Size(mm ²)	0.08mm ² (#28 AWG)		0.054mm ² (#30 AWG)
Insulation	Ov. Dia.(mm)	0.85Ø (0.033")		0.6Ø (0.0236")
	Material	PVC		Polyester
	Colors	Red / White		Black / Red
Filler Thread		-		Polypropylene
Shield		Served Shield Approx. 60/0.08A	Braided Shield Approx. 16/6/0.08A	Double Served Shield Approx. 35/0.08A, Approx. 40/0.08A
Jacket	Ov. Dia.(mm)	2.5Ø (0.098")	2.8Ø (0.110")	2.16Ø (0.085")
	Material	Flexible PVC		
	Colors	Black	Black / White	Black
Roll Sizes		50m (164 Ft) 100m (328Ft) 200m (656Ft)	200m (656Ft) (on spool)	305m (1000Ft)
Weight		1.8kg / 200m	2.5kg / 200m	2.7kg / 305m

[Back To Top](#)

ELECTRICAL & MECHANICAL CHARACTERISTICS

Part No.		W2697	W3031	W2901
DC Resistance at 20°C	Inner Cond.	0.23Ω/m(0.070Ω/Ft)		
	Shield	0.065Ω/m(0.020Ω/Ft)	0.038Ω/m(0.0116Ω/Ft)	0.07Ω/m(0.0214Ω/Ft)
Capacitance at 1kHz, 20°C (Partial C. Value) See below figure*	K ₀	300pF/m(92pF/Ft)	290pF/m(88pF/Ft)	176pF/m(54pF/Ft)
	K ₁	57pF/m(17pF/Ft)	70pF/m(21pF/Ft)	32pF/m(9.8pF/Ft)
Inductance between conductors at 1kHz, 20°C		0.8μH/m(0.24μH/Ft)		
Electrostatic Noise**		50mV Max.	200mV Max.	1mV Max.
Electromagnetic Noise**		0.15mV Max.		
Microphonics at 50KΩ Load**		300mV Max.	150mV Max.	40mV Max.
Voltage Breakdown		Must withstand at DC 500V/15sec.		
Insulation Resistance		100000 MΩ × m Min. at DC 125V, 20°C		
Flex Life**		49,000 cycles	26,000 cycles	177,000 cycles
Tensile Strength		294N	313N	176N
Emigration		Non-emigrant to ABS		
Applicable Temperature		-20°C ~ +70°C (-4°F ~ +158°F)		

** Using standard testing methods of Mogami Wire & Cable Corp.

* Patial Capacitance



[Back To Top](#)