

Miniature Balanced / Lavalier Microphone Cables

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W2697



W3031



W2901

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.

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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> | | |
| | Size(mm²) | 0.08mm² (#28 AWG) | | |
| Insulation | Ov. Dia.(mm) | 0.85Ø (0.033") | | |
| | Material | PVC | | |
| | Colors | Red / White | | |
| Filler Thread | | - | | |
| 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 |

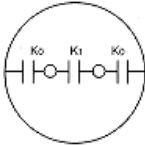
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ELECTRICAL & MECHANICAL CHARACTERISTICS

| | | | | |
|--|----------------|-------------------------------------|----------------------|---------------------|
| 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 | | |

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

* Partial Capacitance



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