Piezo Copolymer Coaxial Cable





- Coaxial design piezo sensor
- Shielded construction
- Ideal for linear application
- Rugged
- Water resistant
- Piezo film technology

DESCRIPTION

Piezo cable is another form of piezo polymer sensors. Designed as a coaxial cable, the Piezo polymer is the dielectric between the center core and the outer braid. When the cable is compressed or stretched, a charge or voltage is generated proportional to the stress.

Piezo cable has a number of advantages in certain applications. Due to its coaxial design, the cable is self-shielded, allowing its use in a high EMI environment. The piezo cable can be spliced to passive coax, using standard coax splice techniques. It is extremely rugged and will stand up to heavy loads. Its linear format makes it ideal for monitoring large areas.

The inner conductor comprises 20 awg stranded silver-plated copper wire. In the cable construction, a special version of the piezo material is extruded directly onto the cable and then polarized. The cable is then braided, and jacketed with an extruded high-density polyethylene.

The cable is available in short lengths (in multiples of 1 m), or as single cut lengths wound on spools.

FEATURES

- Passive, long length sensor
- Very tough, water resistant and flexible
- Temperature stability to 85 °C
- Self-shielded coaxial construction
- High voltage response
- Low impedance per unit length
- Field repairable
- Simplified interconnections

APPLICATIONS

- Perimeter intrusion detection
- Safety and security fencing
- Door edge/vehicle bumper switch
- Cable tampering detector
- Weather sensing/rain/hail
- Structural NDT/strain/vibration
- Underwater acoustics
- Patient mattress monitor
- Sports scoring/foul line

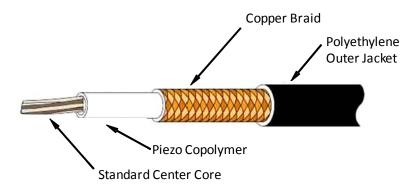
电话:+86 755 2641 9890 传真:+86 755 2641 9680 www.bill-well.com 深圳市亿为测控电子有限公司

Piezo Copolymer Coaxial Cable

PERFORMANCE SPECIFICATIONS

Properties	Typical Value	Units
Outside Diameter	2.72	mm
Capacitance @ 1 kHz	655	pF/m
Weight	15.5	kg/km
Resistance (shield)	47	DCR/km
Tan Delta (dissipation factor)	0.017	@ 1 kHz
Hydrostatic Piezo Coefficient	15	pC/N
Hydrostatic Piezo Coefficient	150 x 10 ⁻³	Vm/N
Resistance (center core)	31	DCR/km

DIMENSIONS IN INCHES (mm)



20 AWG Cable - Copolymer

Description	Dimensions		Capacitance	Part Number
	Center Core	Outside Diameter	pF/ft (pF/m)	Part Number
20 AWG Piezo Cable (copolymer)	.040 (1.02)	.107 (2.72)	200 (655)	1005646-1

联系方式



广东省深圳市南山区创业路恰海广场东座2407 邮编:518000 电话:+86 755 2641 9890 传真:+86 755 2641 9680

电子邮箱:sales@bill-well.com